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RE REGULATORY RECORD

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DIGITALLY VERIFIED RECORD

PRECISE ASSOCIATE
CONSULTANTS, ENGINEERS, DESIGNERS
45/1, 2nd Main Road, Ramalinga nagar South Extn, Vayaloor Main Road, Trichy-17. Cell no: 90475 66336, 99944 77007. Ph: 0431-4210336, 2770027.

STABILITY CERTIFICATE

Date: 26.09.2025

(To be furnished while filing application for registration of building)

The detailed engineering and structure design of the proposed building located in S.NO. 27, Ward:Y, Block No: 12, Renganathapuram, Puthur Village, Zone-5, Trichy City Corporation- Site area of 1589.27Sq.m (As per approved)-Block-1 HRB (consist of 35 Residential dwelling units of Stilt + 5 floors)- FSI area of 4444.57Sq.m. alonehas been done by me/us based on the report of geotechnical investigation (soil test) done by M/s. Time Institue for Material Testing Report No.Time /25/ Soil Test / August 2023Dated 22.08.2023 and considering the functional requirement of the building..

- It is certified that among other factors, the proposed building has been designed to Dead load and live load only. (Tiruchirappalli falls into **Seismic Zone II**, which is considered a low-risk zone with low chances of having earthquakes, according to the Indian seismic codes). I/We have checked various parameters and found that the proposed building would be safe.

- I/We further certify that:

  (i) The minimum grade of concrete is M20.

  (ii) The design and analysis have been done using the code of practice for plain and reinforced concrete as per IS 456, design loads as per IS Codes No IS 875:1987 (Part 1,2 and 4) and design of earthquake resistant structure as per IS Code No IS 1983:2016.

- The building will be safe and sound when used for the purpose for which it is designed.

Er.K.PRABU, M.Tech (Stru),
Registered Structural Engineer Grade - I,
RSE.Gr - I/DTCP/TRICHY/SEP - 2025/67,
45/1, 2nd Main Road, Ramalinganagar South Extn,
Vayalur Main Road, Trichy – 620 017.
Office : 0431-2770027, Mobile : 99944 77007.

Stamp and Signature

TIRUCHIRAPPALLI DISTRICT TOWN AND COUNTRY PLANNING
(Kajamalai Main road, Kajamalai, Tiruchirappalli - 620 023)

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that **Mr.K.PRABU** has enrolled as **REGISTERED STRUCTURAL ENGINEER GRADE-I** with this office who has the qualification of **DEGREE OF MASTER OF TECHNOLOGY in STRUCTURAL ENGINEERING** and experience in the relevant field.

He has been given the Registration No.**RSE.Gr-I/DTCP/TRICHY/ SEP-2025/67 on 10.09.2025.**

He shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules 2019, approved vide G.O (Ms) No.18 MAWS (MA1) Department dated 4.2.2019.

NOTE

Certificate is issued based on documents submitted by the candidate for Qualification and experience. This certificate is liable to be cancelled/invalid if documents are found incorrect/forged.

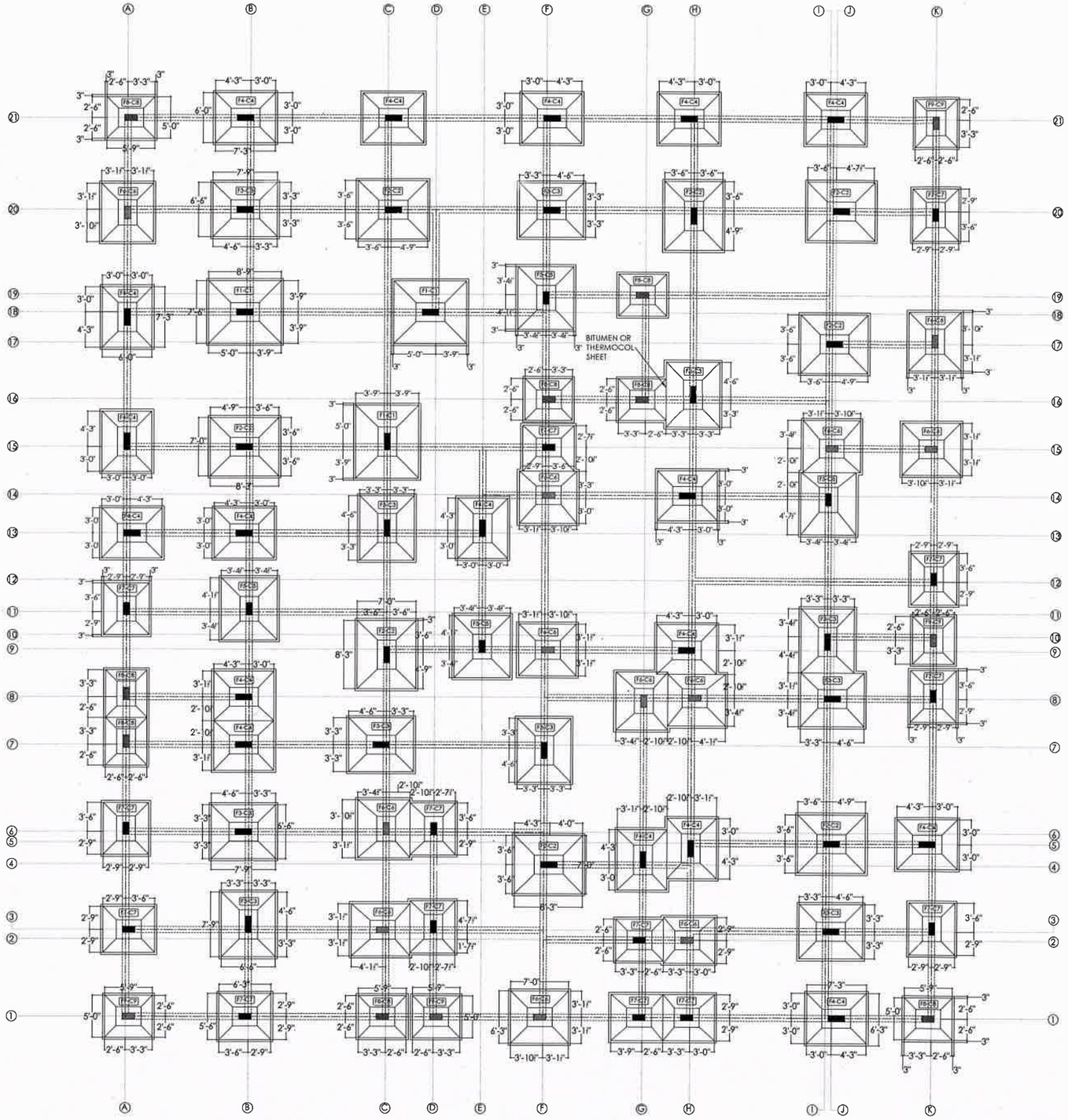
This Registration is valid up to 09.09.2030.



09 SEP 2025

Joint Director(FAC) /Assistant Director
District Town and Country Planning,
Tiruchirappalli District.

10/9/25



COLUMN SCHEDULE

SNO	COLUMN	NOS	SIZE	COLUMN SHAPE	MAINSTEEL upto FF Roof	MAINSTEEL above FF Roof	STIRRUPS
01.	C1	3Nos	9" X2'0"	9" / 2'-0"	8#20 + 6#16	6#20 + 8#16	#10at 6" C/C 4L UPTO PLINTH LEVEL #10at 7" C/C 4L ABOVE PLINTH LEVEL
02.	C2	8Nos	9" X2'0"	9" / 2'-0"	6#20 + 8#16	4#20 + 10#16	#10at 6" C/C 4L UPTO PLINTH LEVEL #10at 7" C/C 4L ABOVE PLINTH LEVEL
03.	C3	11Nos	9" X2'0"	9" / 2'-0"	6#20 + 6#16	4#20 + 8#16	#10at 6" C/C 4L UPTO PLINTH LEVEL #10at 7" C/C 4L ABOVE PLINTH LEVEL
04.	C4	18Nos	9" X2'0"	9" / 2'-0"	4#20 + 6#16	4#20 + 6#16	#8at 6" C/C 4L UPTO PLINTH LEVEL #8at 7" C/C 4L ABOVE PLINTH LEVEL
05.	C5	4Nos	9" X1'6"	9" / 1'-6"	6#20 + 6#16	4#20 + 8#16	#8at 6" C/C 4L UPTO PLINTH LEVEL #8at 7" C/C 4L ABOVE PLINTH LEVEL
06.	C6	12Nos	9" X1'6"	9" / 1'-6"	4#20 + 6#16	4#20 + 6#16	#8at 6" C/C 4L UPTO PLINTH LEVEL #8at 7" C/C 4L ABOVE PLINTH LEVEL
07.	C7	14Nos	9" X1'6"	9" / 1'-6"	8#16 + 4#12	6#16 + 6#12	#8at 6" C/C 4L UPTO PLINTH LEVEL #8at 7" C/C 4L ABOVE PLINTH LEVEL
08.	C8	8Nos	9" X1'6"	9" / 1'-6"	6#16 + 6#12	4#16 + 8#12	#8at 6" C/C 4L UPTO PLINTH LEVEL #8at 7" C/C 4L ABOVE PLINTH LEVEL
09.	C9	4Nos	9" X1'6"	9" / 1'-6"	4#16 + 6#12	4#16 + 6#12	#8at 6" C/C 4L UPTO PLINTH LEVEL #8at 7" C/C 4L ABOVE PLINTH LEVEL

82 Nos of columns

FOOTING SCHEDULE

SNO	FOOTING DETAILS	NUMBER OF FOOTING	EXCAVATION SIZE	FOOTING SIZE	DEPTH D inch	DEPTH d inch	FOOTING MAT TYPE	REINFORCEMENT SHORTER DIRECTION REINFORCEMENT	SHORTER DIRECTION No.OF RODS	LONGER DIRECTION REINFORCEMENT	LONGER DIRECTION No.OF RODS
01.	F1C1	3Nos	8'0" X 9'3"	7'6" X 8'9"	21	9	TOP MAT	12mm@5"c/c	19NOS	12mm@5"c/c	22NOS
							BOTTOM MAT	16mm@5"c/c	19NOS	16mm@5"c/c	22NOS
02.	F2C2	8Nos	7'6" X 8'9"	7'0" X 8'3"	21	9	TOP MAT	12mm@5"c/c	18NOS	12mm@5"c/c	21NOS
							BOTTOM MAT	16mm@5"c/c	18NOS	16mm@5"c/c	21NOS
03.	F3C3	11Nos	7'0" X 8'3"	6'6" X 7'9"	21	6	TOP MAT	12mm@6"c/c	14NOS	12mm@6"c/c	17NOS
							BOTTOM MAT	16mm@6"c/c	14NOS	16mm@6"c/c	17NOS
04.	F4C4	18Nos	6'6" X 7'9"	6'0" X 7'3"	21	6	TOP MAT	12mm@6"c/c	13NOS	12mm@6"c/c	16NOS
							BOTTOM MAT	16mm@6"c/c	13NOS	16mm@6"c/c	16NOS
05.	F5C5	4Nos	7'3" X 8'0"	6'9" X 7'6"	21	6	TOP MAT	12mm@6"c/c	15NOS	12mm@6"c/c	16NOS
							BOTTOM MAT	16mm@6"c/c	15NOS	16mm@6"c/c	16NOS
06.	F6C6	12Nos	6'9" X 7'6"	6'3" X 7'0"	18	9	TOP MAT	10mm@5"c/c	16NOS	10mm@5"c/c	18NOS
							BOTTOM MAT	12mm@5"c/c	16NOS	12mm@5"c/c	18NOS
07.	F7C7	14Nos	6'0" X 6'9"	5'6" X 6'3"	18	9	SINGLE MAT	12mm@5"c/c	14NOS	12mm@5"c/c	16NOS
08.	F8C8	8Nos	5'6" X 6'3"	5'0" X 5'9"	18	6	SINGLE MAT	12mm@6"c/c	11NOS	12mm@6"c/c	13NOS
09.	F9C9	4Nos	5'6" X 6'3"	5'0" X 5'9"	15	6	SINGLE MAT	12mm@6"c/c	11NOS	12mm@6"c/c	13NOS

NOTES:

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3. MAXIMUM WATER CEMENT RATIO for mix M20 - 0.50, cement - 403 kg/m³
4. USE VIBRATOR FOR ALL CEMENT CONCRETE WORKS .
5. STEEL REINFORCEMENT STANDARD LENGTH = 12m / 40'0" (7850 kg/ m³)
   IS -1786 (Latest revision) MS -FOR IS -432 PART 1 (Latest rev)
   'F' - TMT (THERMO-MECHANICALLY TREATED) BARS fy = 500 N / mm.
   'R' - MILD STEEL ROUNDED BARS fy = 250 N / mm .
6. CLEAR COVER FOR FOOTINGS = 2" ; PILE CAP = 3" ; RAFT =3" ;
   COLUMNS =1" ; PILE = 1" ; BEAMS = 1" ; SLABS = 5/8".
7. BEND THE COLUMN ROD ENDS TO SEAT AND TIE ON FOOTING MAT
   25# = 2'0" ; 20# = 1'9" ; 16# = 1'6" & 12# = 1'0".
8. OVERLAP LENGTH FOR COLUMNS - 50 D (Diameter of the bar)
   12# = 2'0" ; 16# = 2'8" ; 20# = 3'4" & 25# = 4'2".
9. ALL COLUMN RODS KINKED WITH 1:6 SLOPE FOR LAPPING.
10. OVERLAP LENGTH FOR BEAMS - 60D as 25# = 5'0" ;20# = 4'0" ; 16# = 3.3" ;
    12# = 2'6" ; 10# = 2'0" ; 8#= 1'6" ; 6#= 1'3".
11. HOOK LENGTH FOR STIRRUPS - 9D (Diameter of the bar)
12. EXTRA BAR IS PROVIDED UNDER EVERY CRANK BAR- LENGTH =L/4.
13. USE BONDING CHEMICAL FOR CONSTRUCTION JOINTS IN CONCRETE WITH CEMENT SLURRY.
14. STRUCTURAL ENGINEERS RESPONSIBILITY IS LIMITED TO DESIGN AND ISSUAL OF DRAWING DETAILS PURPOSE ONLY .
15. RESPONSIBILITY OF CONSTRUCTION LIES WITH CONTRACTOR / OWNER.
16. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BEFORE EXECUTION
17. THIS DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS DETAILS.
18. ALL DIMENSIONS ARE IN FEET AND METERS.
19. DESIGNED G+5 FLOORS ONLY.

SIZE	STIRRUPS	
0'9"X2'0" C1,C2,C3 C4	Rings level1,3,5	Rings level 2,4,6
9" X1'6" C5,C6,C7 C8,C9	Rings level1,3,5	Rings level 2,4,6

Er.K.PRABU, M.Tech (Stru),
Registered Structural Engineer Grade - I,
RSE.Gr - I/DTCP/TRICHY/SEP - 2025/67,
45/1, 2nd Main Road, Ramalinganagar South Extn,
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Office : 0431-2770027, Mobile : 99944 77007.

Designed by	Drawn by	Checked by	Approved by	Date	Filename	Scale	Revised
PA	mukesh m	prabu k	client	16-10-2025	ST	Not to scale	0

CLIENT
PROPOSED APARTMENT FOR
Mr.MANIVANNAN
at TRICHY.

ENGINEER

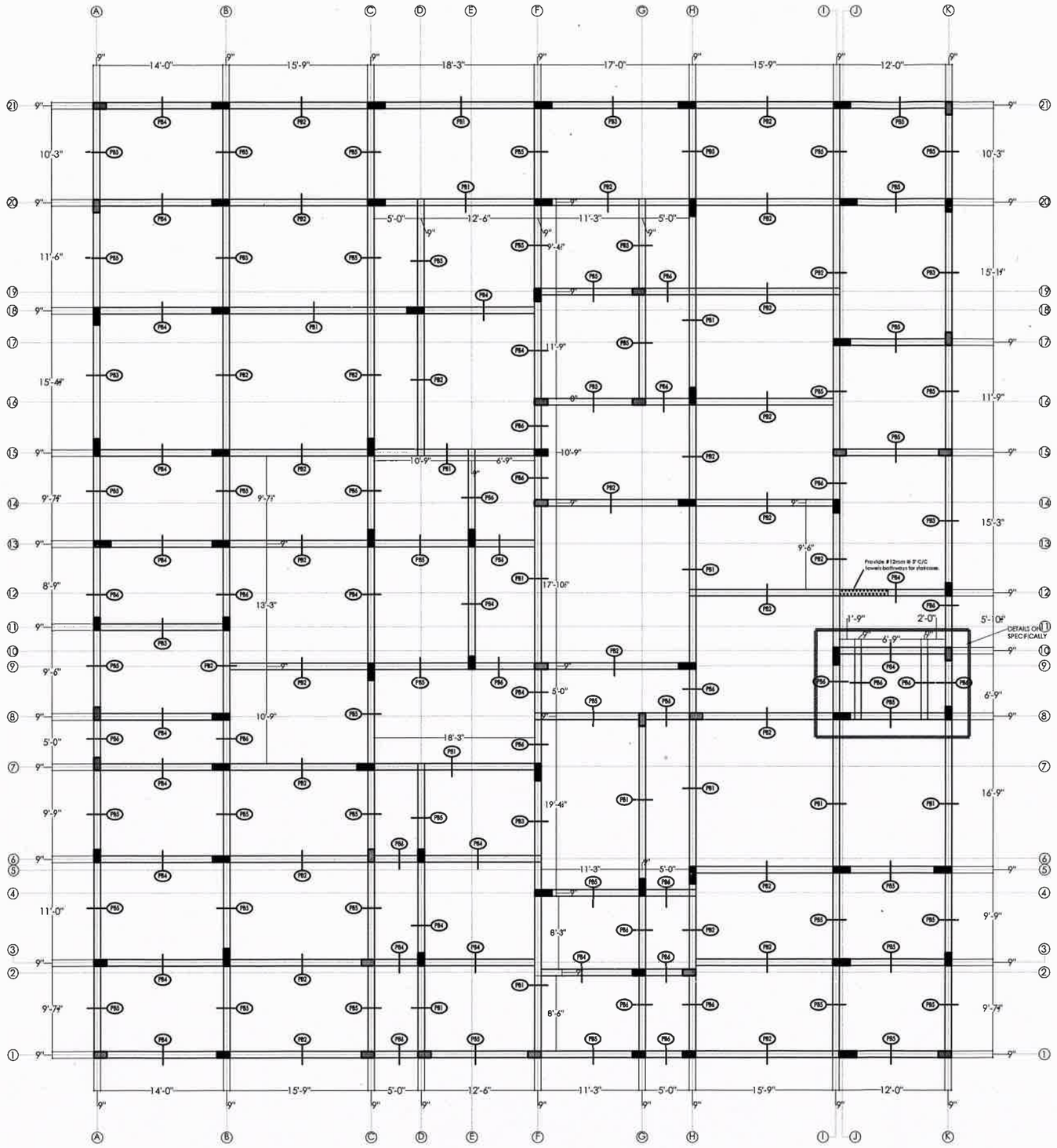
AREA DETAILS
COLUMN & FOOTING DETAIL

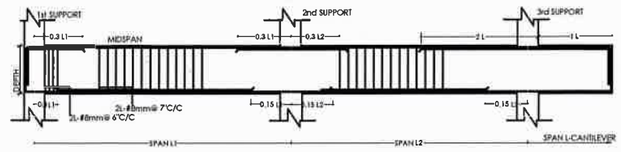
DRAWING TITLE
STILT FLOOR PLAN

N

Consultant

PRECISE ASSOCIATE
45/1, 2nd main road, Ramalinga nagar south extn, Vayaloor main road, Trichy-620017.
office : 0431 - 4210336 , 2770027
preciseassociate@gmail.com
VENKATESAN.S 90475 66336
PRABU K 9994477007

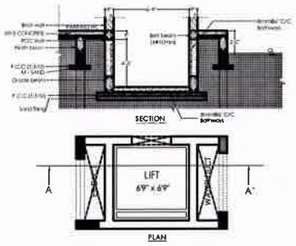




L/S DETAILS OF GROUND FLOOR PLINTH BEAM

C.S OF PLINTH BEAMS

BEAM-No.	AT MID SPAN	AT SUPPORT
PB1	2#16mm 6#@7" C/C - 2L 3#16-CKD 2#16mm	2#16mm 6#@6" C/C - 2L 3#16-CKD 2#16mm
PB2	2#16mm 6#@7" C/C - 2L 2#16-CKD 2#16mm	2#16mm 6#@6" C/C - 2L 2#16-CKD 2#16mm
PB3	2#12mm 6#@7" C/C - 2L 2#16-CKD 2#16mm	2#12mm 6#@6" C/C - 2L 2#16-CKD 2#16mm
PB4	2#16mm 6#@7" C/C - 2L 1#16-CKD 2#16mm	2#16mm 6#@6" C/C - 2L 1#16-CKD 2#16mm
PB5	2#12mm 6#@7" C/C - 2L 2#16-CKD 2#12mm	2#12mm 6#@6" C/C - 2L 2#16-CKD 2#12mm
PB6	2#12mm 6#@7" C/C - 2L 2#12-CKD 2#12mm	2#12mm 6#@6" C/C - 2L 2#12-CKD 2#12mm



SCHEDULE OF PLINTH BEAMS :-

TYPE	SIZE	REINFORCEMENT						REMARKS
		BOTTOM STEEL		TOP STEEL		FACE RFT	STIRRUPS	
		STRAIGHT	EXTRA AT MID SPAN	STRAIGHT	EXTRA AT SUPPORT			
PB1	0'9" X 1'6"	2 #16	3#16	2 #16	3#16	–	2LT#8@150/180mm.C/C	CLOSED STIRRUPS WITH 135° HOOKS
PB2	0'9" X 1'6"	2 #16	2#16	2 #16	2#16	–	2LT#8@150/180mm.C/C	
PB3	0'9" X 1'6"	2 #16	2#16	2 #12	2#16	–	2LT#8@150/180mm.C/C	
PB4	0'9" X 1'6"	2 #16	1#16	2 #16	1#16	–	2LT#8@150/180mm.C/C	
PB5	0'9" X 1'6"	2 #12	2#16	2 #12	2#16	–	2LT#8@150/180mm.C/C	
PB6	0'9" X 1'6"	2 #12	2 #12	2 #12	2 #12	–	2LT#8@150/180mm.C/C	

NOTES:

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   '#' - TMT (THERMO-MECHANICALLY TREATED) BARS fy = 500 N / mm.
   'R' - MILD STEEL ROUNDED BARS fy = 250 N / mm .
6. CLEAR COVER FOR FOOTINGS = 2" ; PILE CAP = 3" ; RAFT =3" ;
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7. BEND THE COLUMN ROD ENDS TO SEAT AND TIE ON FOOTING MAT
   25# = 2'0" ; 20# = 1'9" ; 16# = 1'6" & 12# = 1'0".
8. OVERLAP LENGTH FOR COLUMNS - 50 D (Diameter of the bar)
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9. ALL COLUMN RODS KINKED WITH 1:6 SLOPE FOR LAPPING.
10. OVERLAP LENGTH FOR BEAMS - 60D as 25# = 5'0" ;20# = 4'0";16# = 3'3" ;
    12# = 2'6" ; 10# = 2'0" ; 8#= 1'6" ; 6R = 1'3".
11. HOOK LENGTH FOR STIRRUPS - 9D (Diameter of the bar)
12. EXTRA BAR IS PROVIDED UNDER EVERY CRANK BAR- LENGTH =L/4.
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RSE.Gr - I/DTCP/TRICHY/SEP - 2025/67,
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Designed by	Drawn by	Checked by	Approved by	Date	Filename	Scale	Revised	Consultant
PA	mukesh m	prabu k	client	16-10-2025	ST	Not to scale	0	

CLIENT
PROPOSED APARTMENT FOR
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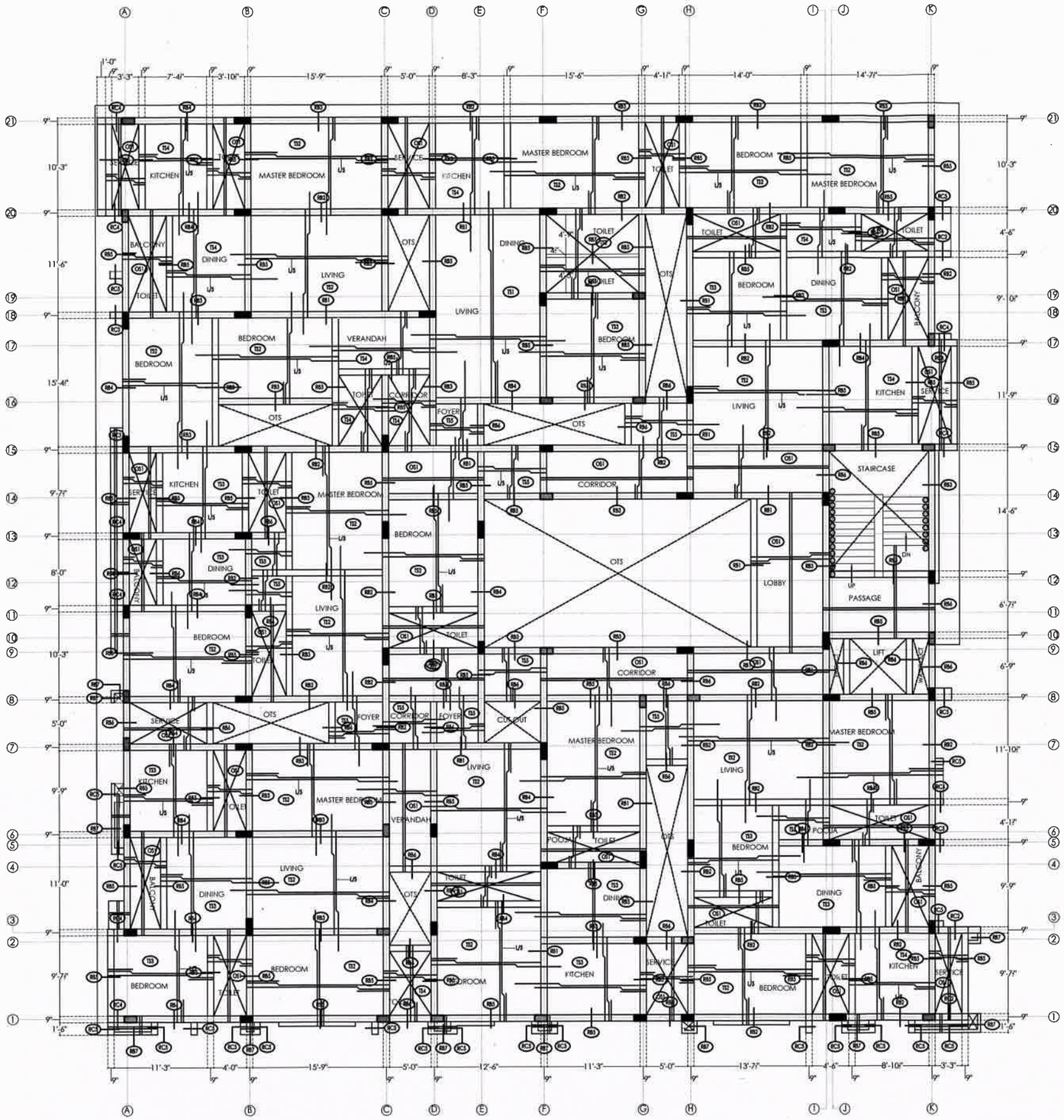
ENGINEER

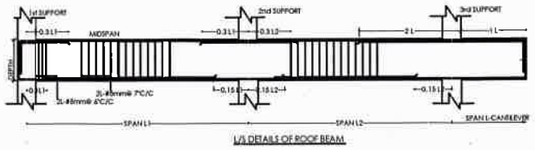
AREA DETAILS
PLINTH BEAM & LIFT DETAIL

DRAWING TITLE
STILT FLOOR PLAN

N

PRECISE ASSOCIATE
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office : 0431 - 4210336 , 2770027
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VENKATESAN.S 90475 66336
PRABU K 9994477007



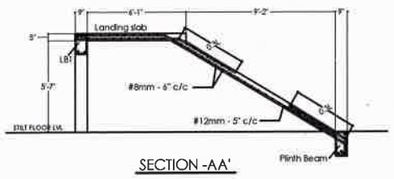


L/S DETAILS OF ROOF BEAM

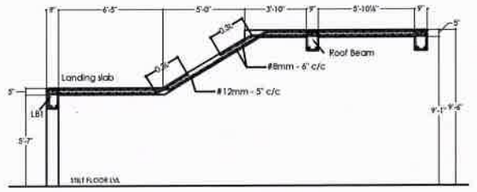
C.S OF ROOF BEAMS

BEAM-No	AT MID SPAN	AT SUPPORT
RB1	2#20mm 8#@7" C/C - 2L 2#20-CKD 2#20mm	2#20mm 8#@6" C/C - 2L 2#20-CKD 2#20mm
RB2	2#16mm 8#@7" C/C - 2L 2#20-CKD 2#20mm	2#16mm 8#@6" C/C - 2L 2#20-CKD 2#20mm
RC2	——	2#16mm 8#@6" C/C - 2L 2#20mm 2#20mm
RB3	2#16mm 8#@7" C/C - 2L 2#20-CKD 2#16mm	2#16mm 8#@6" C/C - 2L 2#20-CKD 2#16mm
RC3	——	2#16mm 8#@6" C/C - 2L 2#20-mm+1#16-mm 2#16mm
RB4	2#16mm 8#@7" C/C - 2L 2#16-CKD 2#16mm	2#16mm 8#@6" C/C - 2L 2#16-CKD 2#16mm
RC4	——	2#16mm 8#@6" C/C - 2L 2#16mm +1#20mm 2#16mm
RB5	2#12mm 8#@7" C/C - 2L 2#16-CKD 2#16mm	2#12mm 8#@6" C/C - 2L 2#16-CKD 2#16mm
RC5	——	2#12mm 8#@6" C/C - 2L 2#16mm 2#16mm
RB6	2#12mm 8#@7" C/C - 2L 2#12-CKD 2#12mm	2#12mm 8#@6" C/C - 2L 2#12-CKD 2#12mm
RB7	2#12mm 8#@7" C/C - 2L 2#12mm 2#12mm	2#12mm 8#@6" C/C - 2L 2#12mm 2#12mm

* At Roof beams/slab cantilever portions - Insert the reinforcement 2 times of free hang length.



SECTION -AA'



SECTION -BB'

BEAM-No	AT MID SPAN	AT SUPPORT
LB1	2#12mm 2#16mm 2#12mm	2#12mm 2#16mm 2#12mm
CONCEALED BEAM	2#12mm 2#12mm	

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   '#' - TMT (THERMO-MECHANICALLY TREATED) BARS fy = 500 N / mm .
   'R' - MILD STEEL ROUNDED BARS fy = 250 N / mm .
6. CLEAR COVER FOR FOOTINGS = 2" ; PILE CAP = 3" ; RAFT =3" ;
   COLUMNS =1" ; PILE = 1" ; BEAMS = 1" ; SLABS = 5/8".
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   25# = 2'0" ; 20# = 1'9" ; 16# = 1'6" & 12# = 1'0".
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9. ALL COLUMN RODS KINKED WITH 1:6 SLOPE FOR LAPPING.
10. OVERLAP LENGTH FOR BEAMS - 60D as 25# = 5'0" ;20# = 4'0";16# = 3'3" ;
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11. HOOK LENGTH FOR STIRRUPS - 9D (Diameter of the bar)
12. EXTRA BAR IS PROVIDED UNDER EVERY CRANK BAR- LENGTH=L/4.
13. USE BONDING CHEMICAL FOR CONSTRUCTION JOINTS IN
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SCHEDULE OF ROOF SLABS :-

TYPE	SLAB DEPTH	REINFORCEMENT				REMARKS
		SHORT. STEEL		LONGER STEEL		
		CRANKED	EXTRA AT SUP.TOP BARS	CRANKED	EXTRA AT SUP.TOP BARS	
TS1	0'5"	10#@4" C/C	10#@8" C/C	10#@4" C/C	10#@8" C/C	
TS2	0'5"	10#@5" C/C	10#@10" C/C	10#@5" C/C	10#@10" C/C	
TS3	0'5"	10#@5" C/C	10#@10" C/C	10#@6" C/C	10#@12" C/C	
TS4	0'5"	10#@5" C/C	10#@10" C/C	8#@5" C/C	8#@10" C/C	
TS5	0'5"	8#@5" C/C	8#@10" C/C	8#@5" C/C	8#@10" C/C	
OS1	0'5"	10#@5" C/C	10#@10" C/C	8#@5" C/C	——	

* At Roof beams/slab cantilever portions - Insert the reinforcement 2 times of free hang length.

Er.K.PRABU, M.Tech (Stru),
Registered Structural Engineer Grade - I,
RSE.Gr - I/DTCP/TRICHY/SEP - 2025/67,
45/1, 2nd Main Road, Ramalinganagar South Extn,
Vayalur Main Road, Trichy – 620 017.
Office : 0431-2770027, Mobile : 99944 77007.

Designed by	Drawn by	Checked by	Approved by	Date	Filename	Scale	Revised
PA	mukesh m	prabu k	client	16-10-2025	ST	Not to scale	0

CLIENT
PROPOSED APARTMENT FOR
Mr.MANIVANNAN
at TRICHY.

ENGINEER

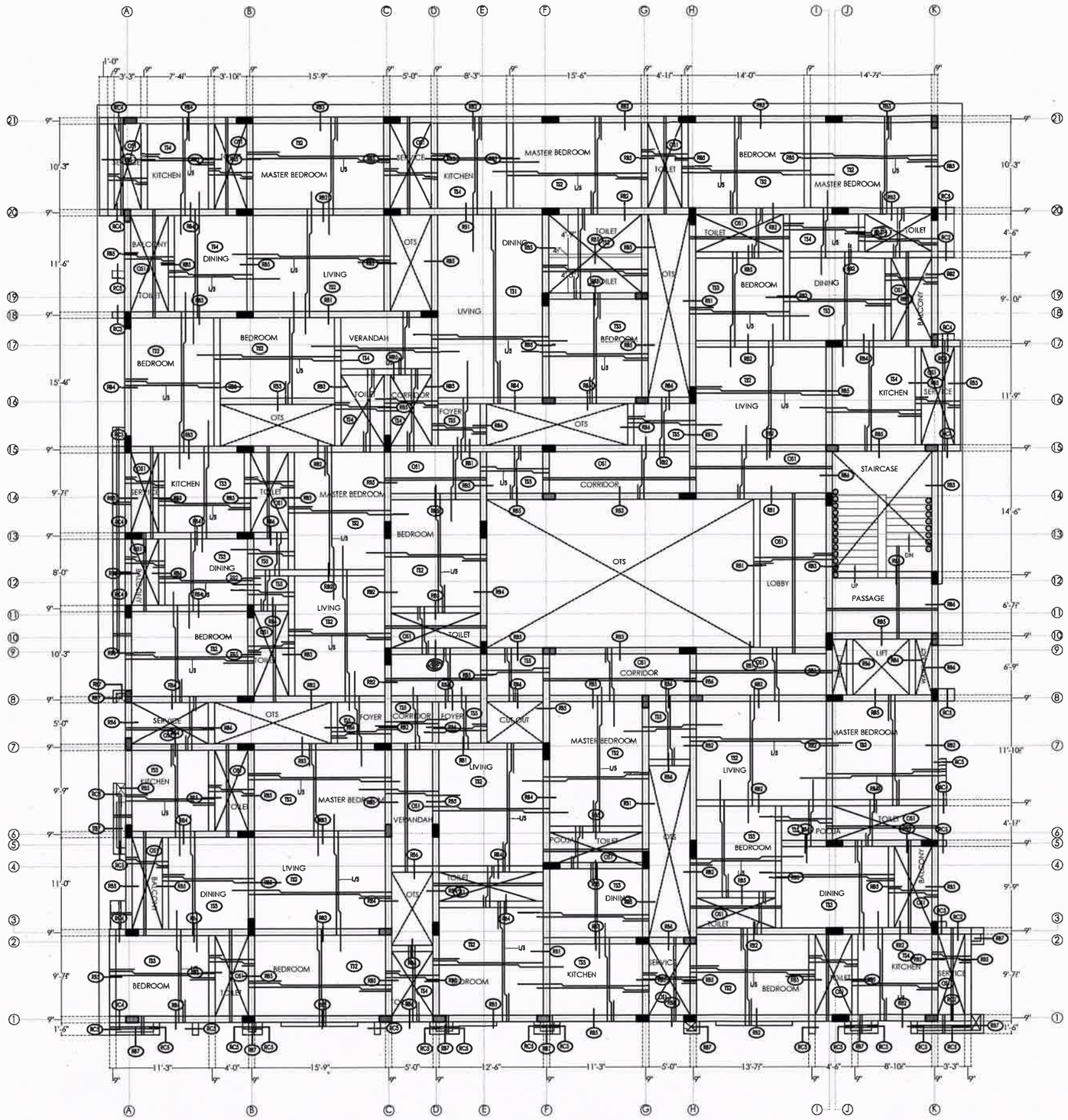
AREA DETAILS
ROOF STRUCTURAL DETAILS

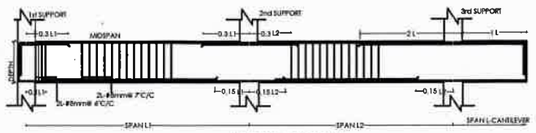
DRAWING TITLE
STILT FLOOR PLAN

N

Consultant

PRECISE ASSOCIATE
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south extn, Vayaloor main road, Trichy-620017.
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PRABU K 9994477007



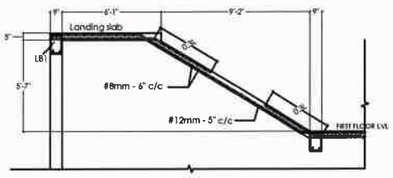


L/S DETAILS OF ROOF BEAM

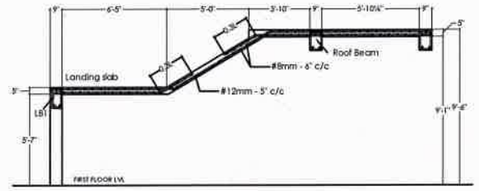
C.S OF ROOF BEAMS

BEAM-No.	AT MID SPAN	AT SUPPORT
RB1	2#20mm 6#@7" C/C - 2L 2#20-CKD 2#20mm	2#20mm 6#@6" C/C - 2L 2#20-CKD 2#20mm
RB2	2#16mm 6#@7" C/C - 2L 2#20-CKD 2#20mm	2#16mm 6#@6" C/C - 2L 2#20-CKD 2#20mm
RC2	——	2#16mm 6#@6" C/C - 2L 2#20mm 2#20mm
RB3	2#16mm 6#@7" C/C - 2L 2#20-CKD 2#16mm	2#16mm 6#@6" C/C - 2L 2#20-CKD 2#16mm
RC3	——	2#16mm 6#@6" C/C - 2L 2#20-mm+1#16-mm 2#16mm
RB4	2#16mm 6#@7" C/C - 2L 2#16-CKD 2#16mm	2#16mm 6#@6" C/C - 2L 2#16-CKD 2#16mm
RC4	——	2#16mm 6#@6" C/C - 2L 2#16mm+1#20mm 2#16mm
RB5	2#12mm 6#@7" C/C - 2L 2#16-CKD 2#16mm	2#12mm 6#@6" C/C - 2L 2#16-CKD 2#16mm
RC5	——	2#12mm 6#@6" C/C - 2L 2#16-mm 2#16mm
RB6	2#12mm 6#@7" C/C - 2L 2#12-CKD 2#12mm	2#12mm 6#@6" C/C - 2L 2#12-CKD 2#12mm
RB7	2#12mm 6#@7" C/C - 2L 2#12mm 2#12mm	2#12mm 6#@6" C/C - 2L 2#12mm 2#12mm

* At Roof beams/slab canilever portions - Insert the reinforcement 2 times of free hang length.



SECTION -AA'



SECTION -BB'

BEAM-No	AT MID SPAN	AT SUPPORT
LB1	2#12mm 2#16mm 2#12mm	2#12mm 2#16mm 2#12mm
CONCEALED BEAM		2#12mm 2#12mm

NOTES:

1. ASSUME SAFE BEARING CAPACITY = 35 t/m².
2. CONCRETE MIX 1:1½:3 UNLESS OTHERWISE SPECIFIED.(not less than M20)
3. MAXIMUM WATER CEMENT RATIO for mix M20 - 0.50, cement - 403 kg/m³
4. USE VIBRATOR FOR ALL CEMENT CONCRETE WORKS .
5. STEEL REINFORCEMENT STANDARD LENGTH = 12m / 40'0" (7850 kg/ m³)
   IS -1786 (Latest revision) MS -FOR IS -432 PART 1(Latest rev)
   '#' - TMT (THERMO-MECHANICALLY TREATED) BARS fy = 500 N / mm.
   'R' - MILD STEEL ROUNDED BARS fy = 250 N / mm .
6. CLEAR COVER FOR FOOTINGS = 2" ; PILE CAP = 3" ; RAFT =3" ;
   COLUMNS =1" ; PILE = 1" ; BEAMS = 1" ; SLABS = 5/8".
7. BEND THE COLUMN ROD ENDS TO SEAT AND TIE ON FOOTING MAT
   25# = 2'0" ; 20# = 1'9" ; 16# = 1'6" & 12# = 1'0".
8. OVERLAP LENGTH FOR COLUMNS - 50 D (Diameter of the bar)
   12# = 2'0" ; 16# = 2'8" ; 20# = 3'4" & 25# = 4'2".
9. ALL COLUMN RODS KINKED WITH 1:6 SLOPE FOR LAPPING.
10. OVERLAP LENGTH FOR BEAMS - 60D as 25# = 5'0" ;20# = 4'0";16# = 3'3" ;
    12# = 2'6" ; 10# = 2'0" ; 8# = 1'6" ; 6R = 1'3".
11. HOOK LENGTH FOR STIRRUPS - 9D (Diameter of the bar)
12. EXTRA BAR IS PROVIDED UNDER EVERY CRANK BAR- LENGTH =L/4.
13. USE BONDING CHEMICAL FOR CONSTRUCTION JOINTS IN
    CONCRETE WITH CEMENT SLURRY.
14. STRUCTURAL ENGINEERS RESPONSIBILITY IS LIMITED TO DESIGN AND
    ISSUAL OF DRAWING DETAILS PURPOSE ONLY .
15. RESPONSIBILITY OF CONSTRUCTION LIES WITH CONTRACTOR / OWNER.
16. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BEFORE EXECUTION
17. THIS DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT
    ARCHITECTURAL DRAWINGS DETAILS.
18. ALL DIMENSIONS ARE IN FEET AND METERS .
19. DESIGNED G+5 FLOORS ONLY.

SCHEDULE OF ROOF SLABS :-

TYPE	SLAB DEPTH	REINFORCEMENT				REMARKS
		SHORT. STEEL		LONGER STEEL		
		CRANKED	EXTRA AT SUP.TOP BARS	CRANKED	EXTRA AT SUP.TOP BARS	
TS1	0'5"	10#@4" C/C	10#@8" C/C	10#@4" C/C	10#@8" C/C	
TS2	0'5"	10#@5" C/C	10#@10" C/C	10#@5" C/C	10#@10" C/C	
TS3	0'5"	10#@5" C/C	10#@10" C/C	10#@6" C/C	10#@12" C/C	
TS4	0'5"	10#@5" C/C	10#@10" C/C	8#@5" C/C	8#@10" C/C	
TS5	0'5"	8#@5" C/C	8#@10" C/C	8#@5" C/C	8#@10" C/C	
OS1	0'5"	10#@5" C/C	10#@10" C/C	8#@5" C/C	——	

* At Roof beams/slab canilever portions - Insert the reinforcement 2 times of free hang length.

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Designed by	Drawn by	Checked by	Approved by	Date	Filename	Scale	Revised	Consultant
PA	mukesh m	prabu k	client	16-10-2025	ST.	Not to scale	0	

CLIENT
PROPOSED APARTMENT FOR
Mr.MANIVANNAN
at TRICHY.

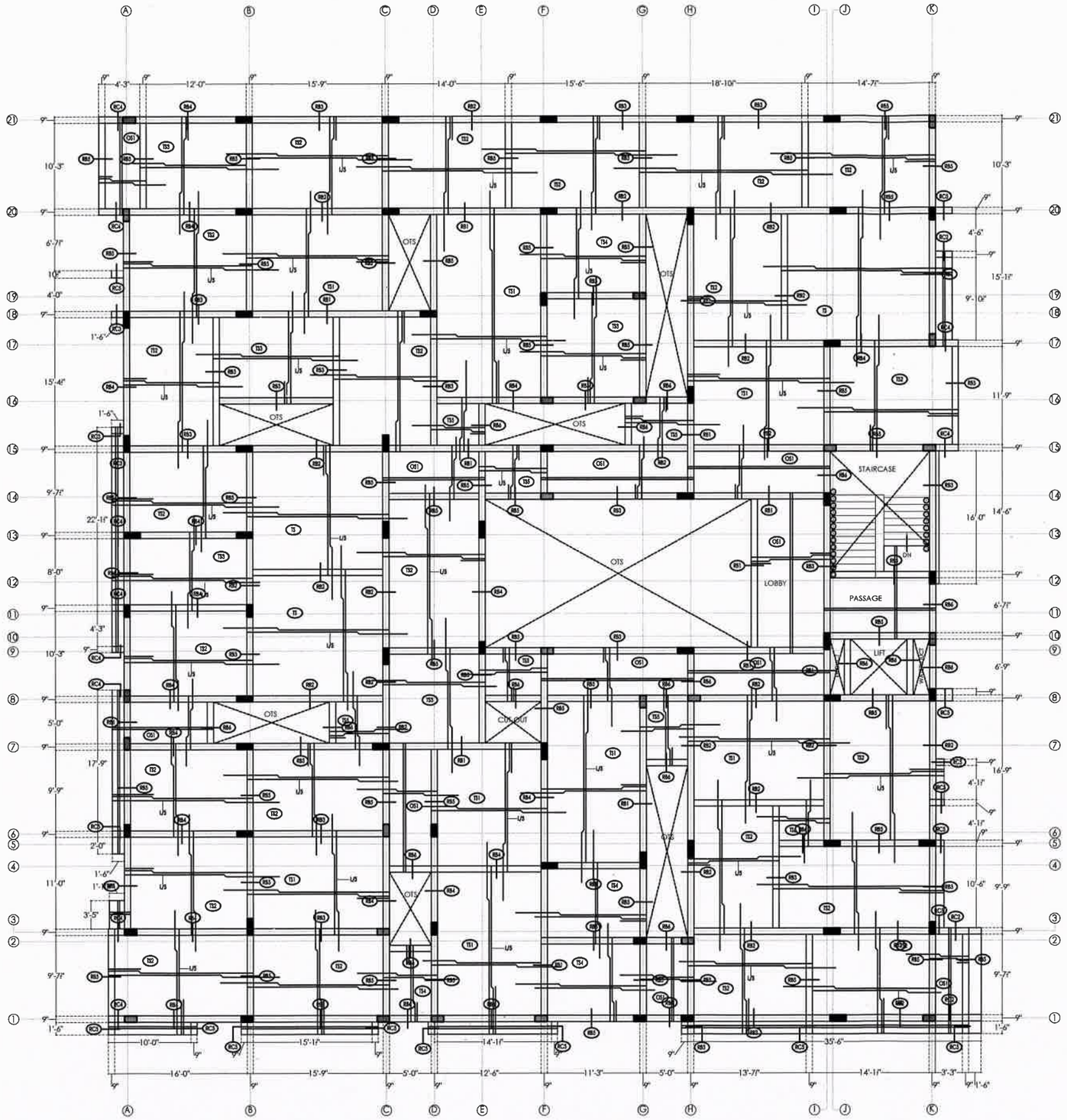
ENGINEER

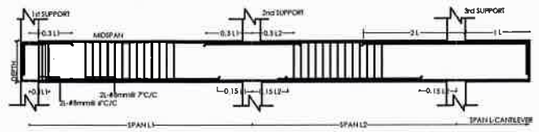
AREA DETAILS
ROOF STRUCTURAL DETAILS

DRAWING TITLE
TYPICAL FLOOR PLAN
(FF, SF, TF, FOURTH FLOOR)

N

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PRABU K 9994477007



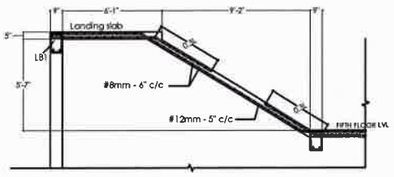


L/1 DETAILS OF ROOF BEAM

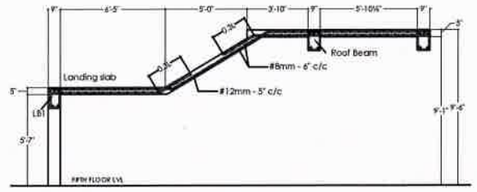
C.S OF ROOF BEAMS

BEAM-No	AT MID SPAN	AT SUPPORT
RB1	2#20mm 8#@7" C/C - 2L 2#20-CKD 2#20mm	2#20mm 8#@6" C/C - 2L 2#20-CKD 2#20mm
RB2	2#16mm 8#@7" C/C - 2L 2#20-CKD 2#20mm	2#16mm 8#@6" C/C - 2L 2#20-CKD 2#20mm
RC2	——	2#16mm 8#@6" C/C - 2L 2#20mm 2#20mm
RB3	2#16mm 8#@7" C/C - 2L 2#16-CKD 2#16mm	2#16mm 8#@6" C/C - 2L 2#16-CKD 2#16mm
RC3	——	2#16mm 8#@6" C/C - 2L 2#16mm +1#20mm 2#16mm
RB4	2#12mm 8#@7" C/C - 2L 2#16-CKD 2#16mm	2#12mm 8#@6" C/C - 2L 2#16-CKD 2#16mm
RC4	——	2#12mm 8#@6" C/C - 2L 2#16-mm 2#16mm
RB5	2#12mm 8#@7" C/C - 2L 2#16-CKD 2#12mm	2#12mm 8#@6" C/C - 2L 2#16-CKD 2#12mm
RC5	——	2#12mm 8#@6" C/C - 2L 2#16-mm 2#12mm
RB6	2#12mm 8#@7" C/C - 2L 2#12-CKD 2#12mm	2#12mm 8#@6" C/C - 2L 2#12-CKD 2#12mm
RB7	2#12mm 8#@7" C/C - 2L 2#12mm 2#12mm	2#12mm 8#@6" C/C - 2L 2#12mm 2#12mm

* At Roof beams/slab cantilever portions - Insert the reinforcement 2 times of free hang length.



SECTION -AA'



SECTION -BB'

BEAM-No	AT MID SPAN	AT SUPPORT
LB1	2#12mm 2#16mm 2#12mm	2#12mm 2#16mm 2#13mm
CONCEALED BEAM	2#12mm 2#12mm	

NOTES:

1. ASSUME SAFE BEARING CAPACITY = 35 t/m².
2. CONCRETE MIX 1:1½:3 UNLESS OTHERWISE SPECIFIED.(not less than M20)
3. MAXIMUM WATER CEMENT RATIO for mix M20 - 0.50, cement - 403 kg/m³
4. USE VIBRATOR FOR ALL CEMENT CONCRETE WORKS .
5. STEEL REINFORCEMENT STANDARD LENGTH = 12m / 40'0" (7850 kg/ m³)
   IS -1786 (Latest revision) MS -FOR IS -432 PART 1 (Latest rev)
   '#' - TMT (THERMO-MECHANICALLY TREATED) BARS fy = 500 N / mm.
   'R' - MILD STEEL ROUNDED BARS fy = 250 N / mm .
6. CLEAR COVER FOR FOOTINGS = 2" ; PILE CAP = 3" ; RAFT =3" ;
   COLUMNS =1" ; PILE = 1" ; BEAMS = 1" ; SLABS = 5/8".
7. BEND THE COLUMN ROD ENDS TO SEAT AND TIE ON FOOTING MAT
   25# = 2'0" ; 20# = 1'9" ; 16# = 1'6" & 12# = 1'0".
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   12# = 2'0" ; 16# = 2'8" ; 20# = 3'4" & 25# = 4'2".
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10. OVERLAP LENGTH FOR BEAMS - 60D as 25# = 5'0" ;20# = 4'0";16# = 3'3" ;
    12# = 2'6" ; 10# = 2'0" ; 8# = 1'6" ; 6R = 1'3".
11. HOOK LENGTH FOR STIRRUPS - 9D (Diameter of the bar)
12. EXTRA BAR IS PROVIDED UNDER EVERY CRANK BAR- LENGTH =L/4.
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SCHEDULE OF ROOF SLABS :-

TYPE	SLAB DEPTH	REINFORCEMENT				REMARKS
		SHORT. STEEL		LONGER STEEL		
		CRANKED	EXTRA AT SUP.TOP BARS	CRANKED	EXTRA AT SUP.TOP BARS	
TS1	0'5"	10#@4" C/C	10#@8" C/C	10#@4" C/C	10#@8" C/C	
TS2	0'5"	10#@5" C/C	10#@10" C/C	10#@5" C/C	10#@10" C/C	
TS3	0'5"	10#@5" C/C	10#@10" C/C	10#@6" C/C	10#@12" C/C	
TS4	0'5"	10#@5" C/C	10#@10" C/C	8#@5" C/C	8#@10" C/C	
TS5	0'5"	8#@5" C/C	8#@10" C/C	8#@5" C/C	8#@10" C/C	
OS1	0'5"	10#@5" C/C	10#@10" C/C	8#@5" C/C	——	

* At Roof beams/slab cantilever portions - Insert the reinforcement 2 times of free hang length.

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Vayalur Main Road, Trichy – 620 017.
.. 2770027, Mobile : 99944 77007.

Designed by	Drawn by	Checked by	Approved by	Date	Filename	Scale	Revised	Consultant
PA	mukesh m	prabu k	client	16-10-2025	ST	Not to scale	0	

CLIENT
PROPOSED APARTMENT FOR
Mr.MANIVANNAN
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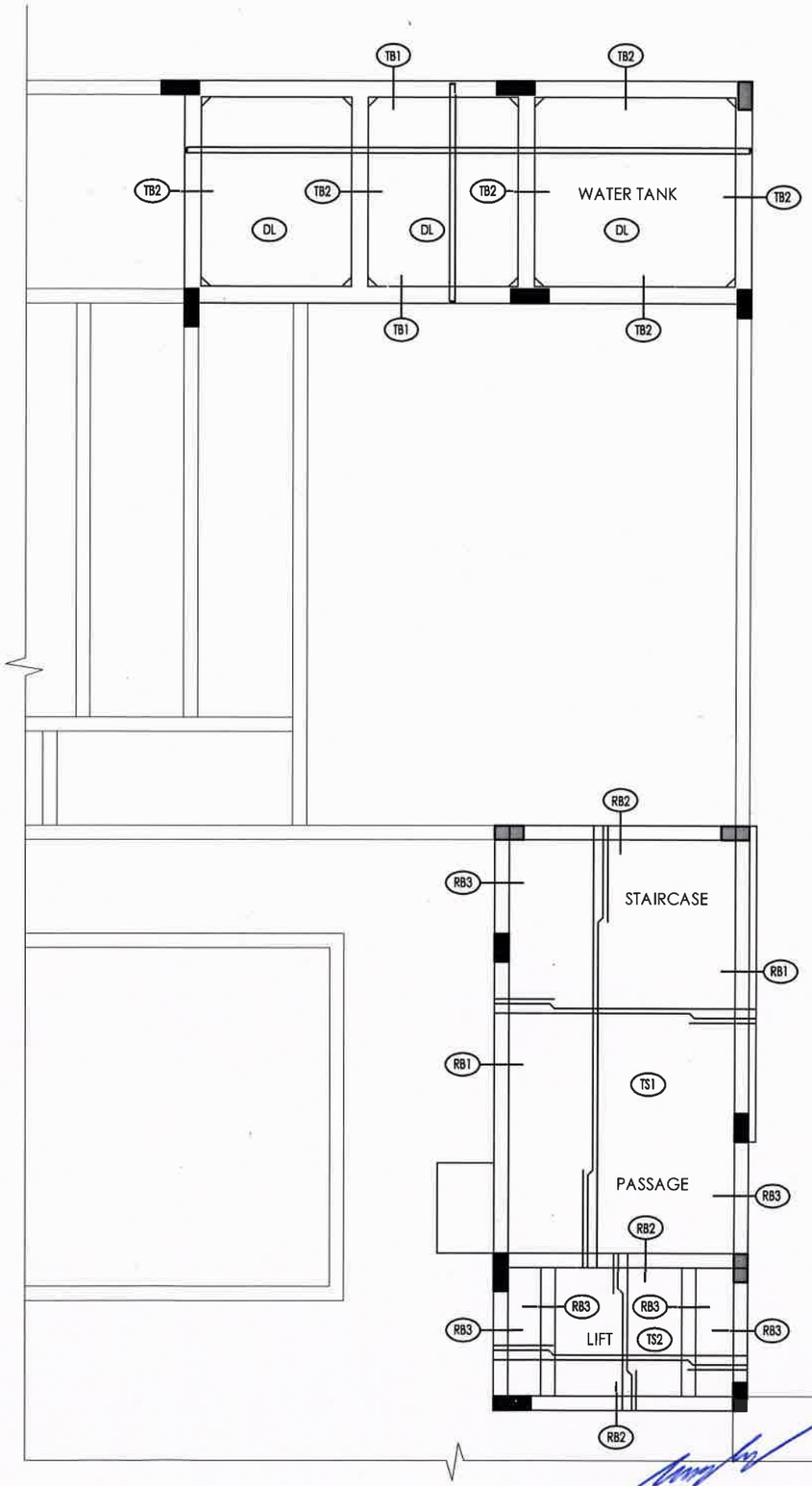
ENGINEER

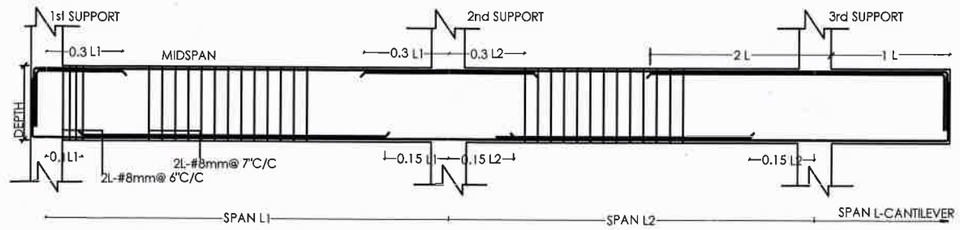
AREA DETAILS
ROOF STRUCTURAL DETAILS

DRAWING TITLE
FIFTH FLOOR PLAN

N

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PRABU K 9994477007





L/S DETAILS OF ROOF BEAM

C.S OF ROOF BEAMS

BEAM-No	AT MID SPAN	AT SUPPORT
TB1	2#16mm, 8#@7" C/C - 2L, 2#12mm, 2#20-CKD, 2#20mm, 1'-6", 10½", Note: CKD-Cutnad or Crank	2#16mm, 8#@6" C/C - 2L, 2#20-CKD, 2#12mm, 2#20mm, 1'-6", 10½", Note: CKD-Cutnad or Crank
TB2	2#16mm, 8#@7" C/C - 2L, 2#12mm, 2#16-CKD, 2#20mm, 1'-6", 10½", Note: CKD-Cutnad or Crank	2#16mm, 8#@6" C/C - 2L, 2#16-CKD, 2#12mm, 2#20mm, 1'-6", 10½", Note: CKD-Cutnad or Crank
RB1	2#16mm, 8#@7" C/C - 2L, 2#16-CKD, 2#16mm, 1'-6", 9", Note: CKD-Cutnad or Crank	2#16mm, 8#@6" C/C - 2L, 2#16-CKD, 2#16mm, 1'-6", 9", Note: CKD-Cutnad or Crank
RB2	2#12mm, 8#@7" C/C - 2L, 2#16-CKD, 2#16mm, 1'-3", 9", Note: CKD-Cutnad or Crank	2#12mm, 8#@6" C/C - 2L, 2#16-CKD, 2#16mm, 1'-3", 9", Note: CKD-Cutnad or Crank
RB3	2#12mm, 8#@7" C/C - 2L, 2#12-CKD, 2#12mm, 1'-3", 9", Note: CKD-Cutnad or Crank	2#12mm, 8#@6" C/C - 2L, 2#12-CKD, 2#12mm, 1'-3", 9", Note: CKD-Cutnad or Crank

* At Roof beams/slab cantilever portions - Insert the reinforcement 2 times of free hang length.

SCHEDULE OF ROOF SLABS :-

TYPE	SLAB DEPTH	REINFORCEMENT				REMARKS
		SHORT. STEEL		LONGER.STEEL		
		CRANKED	EXTRA AT SUP.TOP BARS	CRANKED	EXTRA AT SUP.TOP BARS	
TS1	0'5"	10#@7" C/C	10#@14" C/C	8#@7" C/C	8#@14" C/C	
TS2	0'6"	12#@6" C/C	12#@12" C/C	12#@6" C/C	12#@12" C/C	
OHT TOP	0'4½"	8#@7" C/C		8#@7" C/C		

* At Roof beams/slab cantilever portions - Insert the reinforcement 2 times of free hang length.

NOTES:

1. ASSUME SAFE BEARING CAPACITY = 35 t/m².
2. CONCRETE MIX 1:1½:3 UNLESS OTHERWISE SPECIFIED.(not less than M20)
3. MAXIMUM WATER CEMENT RATIO for mix M20 - 0.50, cement - 403 kg/m³
4. USE VIBRATOR FOR ALL CEMENT CONCRETE WORKS .
5. STEEL REINFORCEMENT STANDARD LENGTH = 12m / 40'0" (7850 kg/ m³)
   IS -1786 (Latest revision) MS -FOR IS -432 PART 1(Latest rev)
   '#' - TMT (THERMO-MECHANICALLY TREATED) BARS fy = 500 N / mm.
   'R' - MILD STEEL ROUNDED BARS fy = 250 N / mm .
6. CLEAR COVER FOR FOOTINGS = 2" ; PILE CAP = 3" ; RAFT =3" ;
   COLUMNS =1" ; PILE = 1" ; BEAMS = 1" ; SLABS = 5/8".
7. BEND THE COLUMN ROD ENDS TO SEAT AND TIE ON FOOTING MAT
   25# = 2'0" ; 20# = 1'9" ; 16# = 1'6" & 12# = 1'0".
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Vayalur Main Road, Trichy – 620 017.
Office : 0431-2770027, Mobile : 99944 77007.

Designed by	Drawn by	Checked by	Approved by	Date	Filename	Scale	Revised
PA	mukesh m	prabu k	client	16-10-2025	ST	Not to scale	0

CLIENT
PROPOSED APARTMENT FOR
Mr.MANIVANNAN
at TRICHY.

ENGINEER

AREA DETAILS
ROOF STRUCTURAL DETAILS

DRAWING TITLE
HEAD ROOM & OHT DETAIL

N

Consultant

PRECISE ASSOCIATE
45/1, 2nd main road, Ramalinga nagar
south extn, Vayaloor main road, Trichy-620017.
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VENKATESAN.S 90475 66336
PRABU K 9994477007

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

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Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.