Verified RealEstate™

RE REGULATORY RECORD

# RERA Document

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hello@verified.realestate
+91 9996 12 9996
verified.realestate

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.

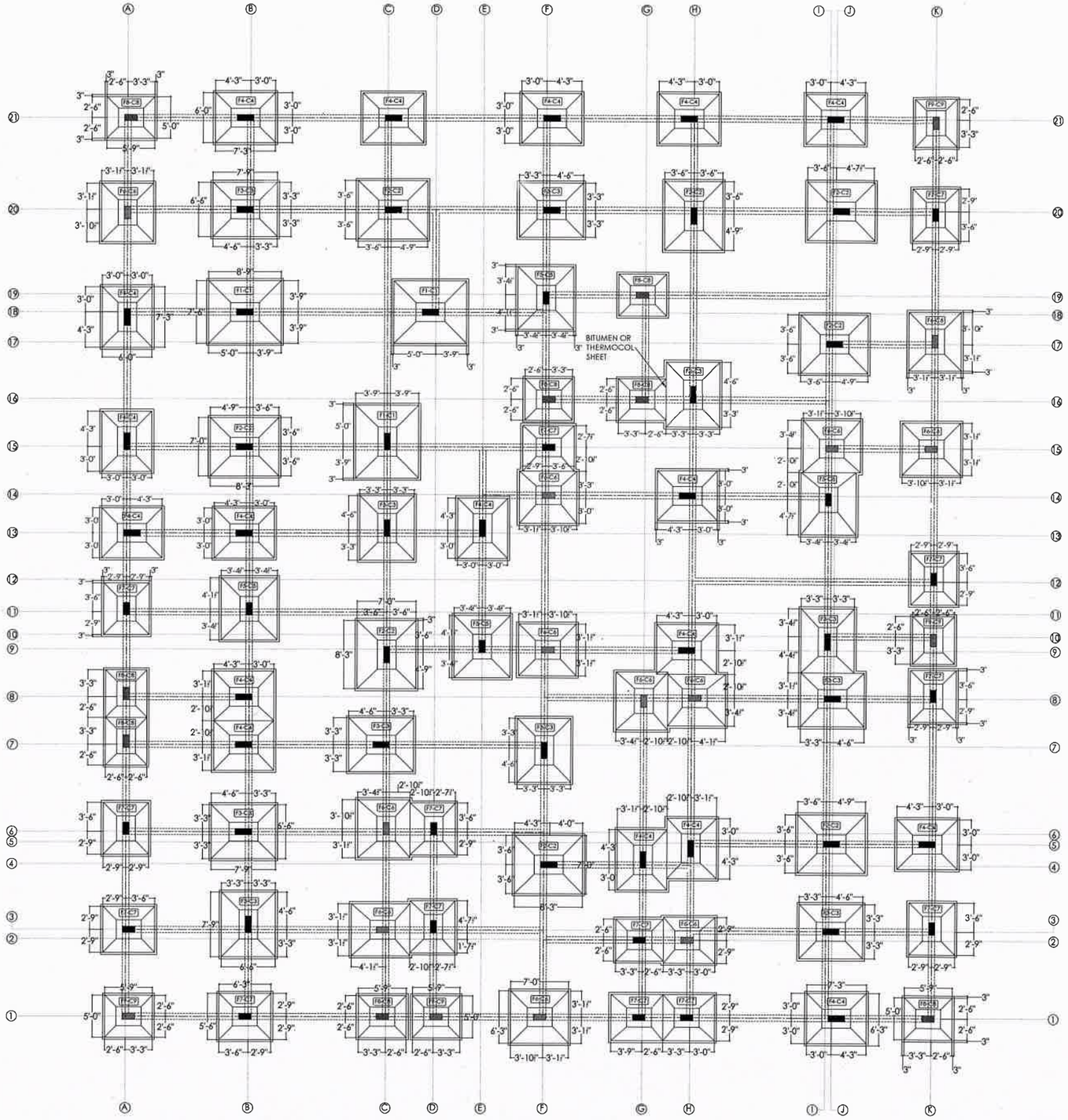
**This Registration is valid up to 09.09.2030.**



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<br>#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<br>#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<br>#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<br>#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<br>#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<br>#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<br>#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<br>#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<br>#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:

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)
   '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"<br>C1,C2,C3<br>C4 | Rings level1,3,5 | Rings level 2,4,6 |
| 9" X1'6"<br>C5,C6,C7<br>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,
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

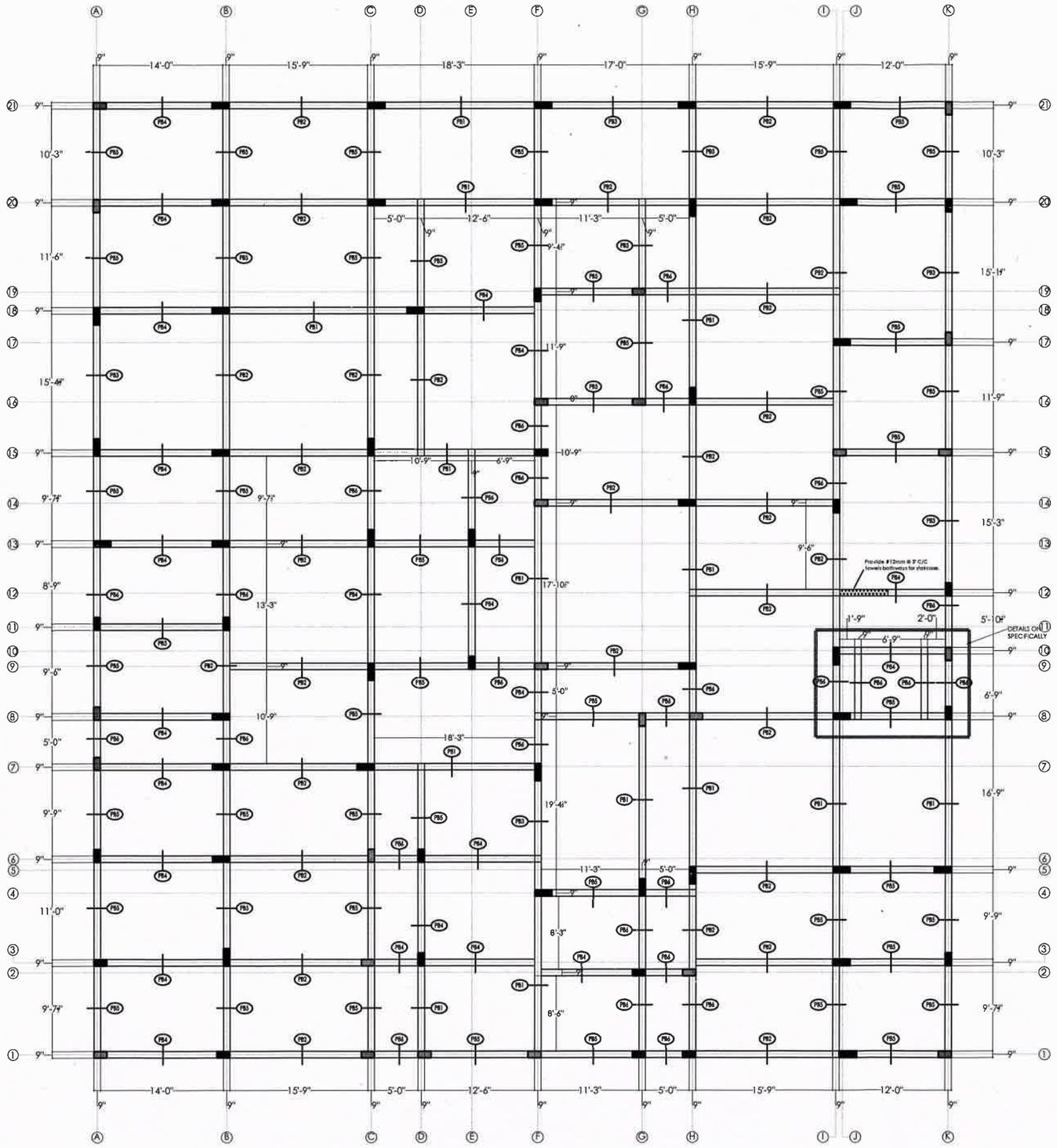
AREA DETAILS
COLUMN & FOOTING DETAIL

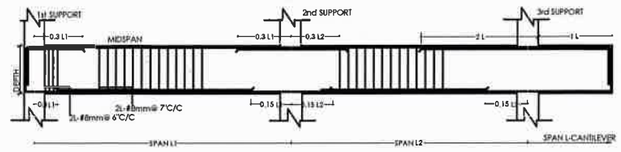
DRAWING TITLE
STILT FLOOR PLAN

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

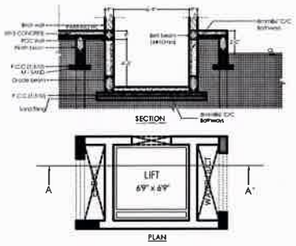



L/S DETAILS OF GROUND FLOOR PLINTH BEAM

C.S OF PLINTH BEAMS

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

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".
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   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".
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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".
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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 | Consultant |
|---|---|---|---|---|---|---|---|---|
| PA | mukesh m | prabu k | client | 16-10-2025 | ST | Not to scale | 0 | |

CLIENT
PROPOSED APARTMENT FOR
Mr.MANIVANNAN
at TRICHY.

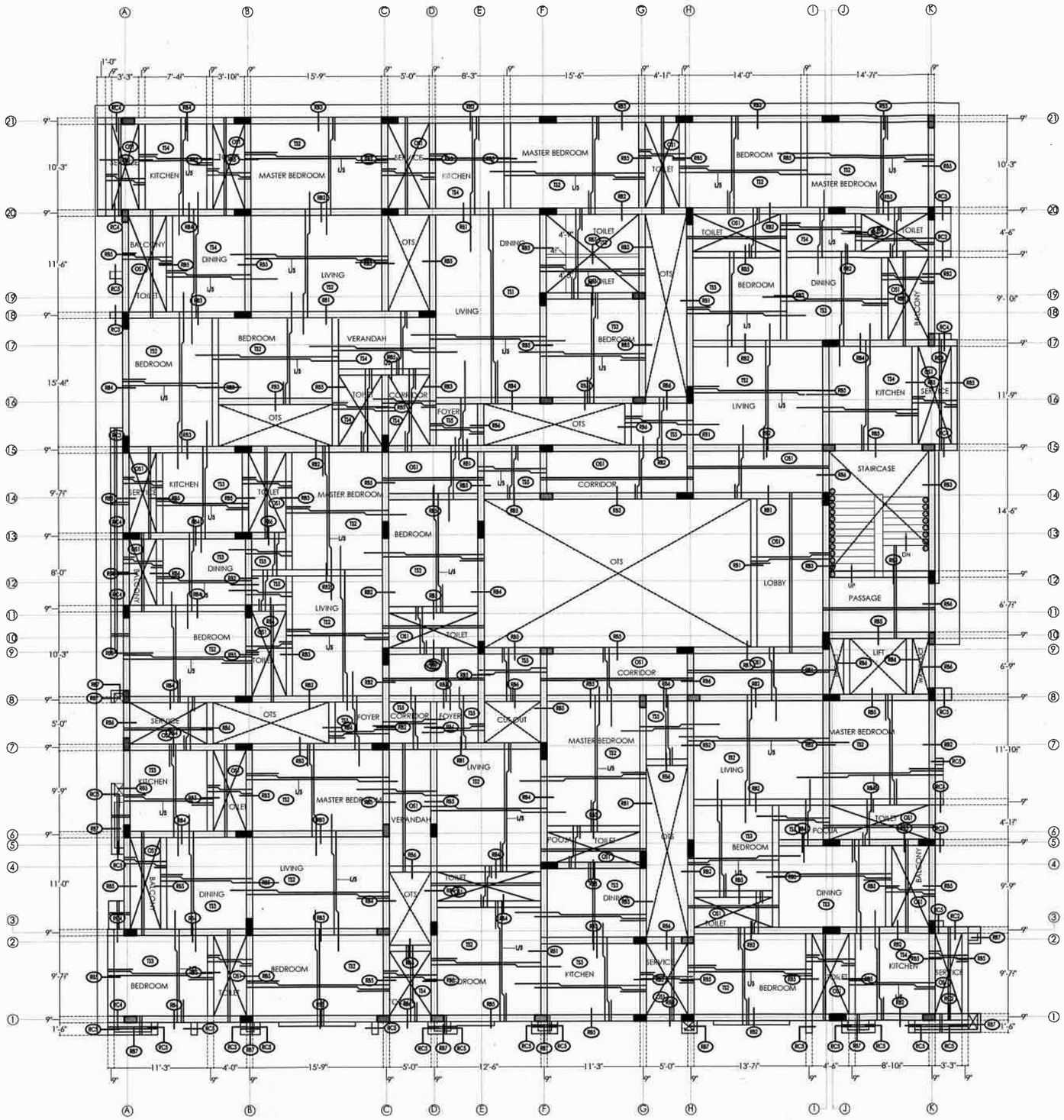
ENGINEER

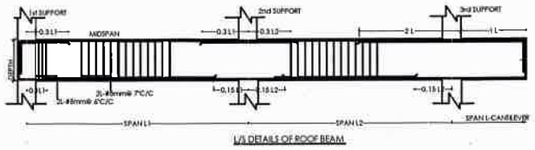
AREA DETAILS
PLINTH BEAM & LIFT DETAIL

DRAWING TITLE
STILT FLOOR PLAN

N


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



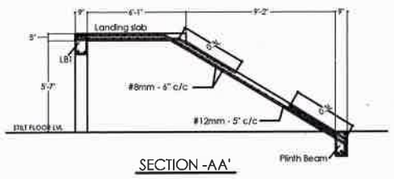




L/S DETAILS OF ROOF BEAM

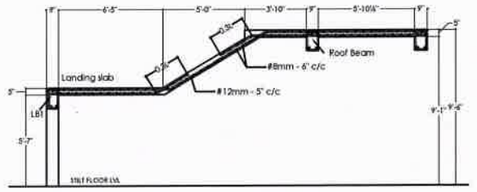
C.S OF ROOF BEAMS

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

NOTES:

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4. USE VIBRATOR FOR ALL CEMENT CONCRETE WORKS .
5. STEEL REINFORCEMENT STANDARD LENGTH = 12m / 40'0" ( 7850 kg/ m³ )
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   '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 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

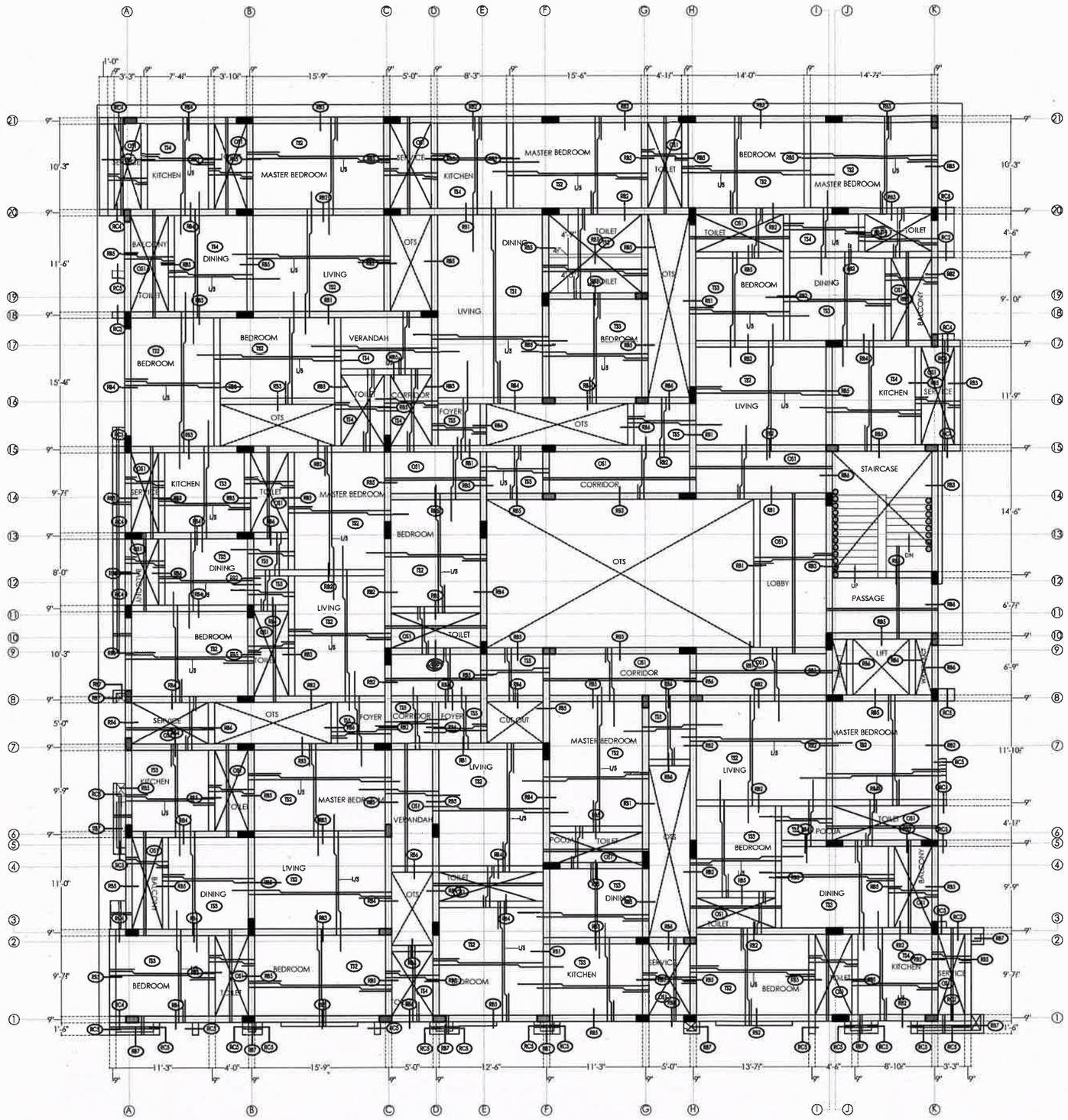
AREA DETAILS
ROOF STRUCTURAL DETAILS

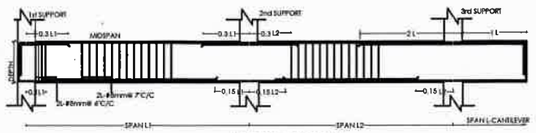
DRAWING TITLE
STILT FLOOR PLAN

N

Consultant

PRECISE ASSOCIATE
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



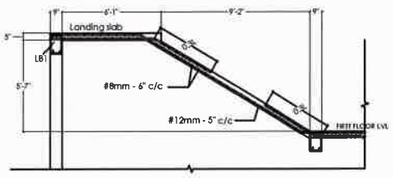




L/S DETAILS OF ROOF BEAM

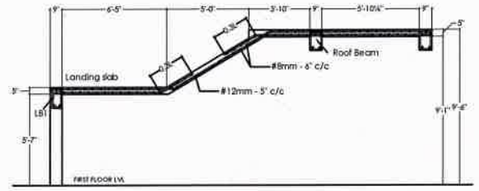
C.S OF ROOF BEAMS

| BEAM-No. | AT MID SPAN | AT SUPPORT |
|---|---|---|
| RB1 | 2#20mm<br>6#@7" C/C - 2L<br>2#20-CKD<br>2#20mm | 2#20mm<br>6#@6" C/C - 2L<br>2#20-CKD<br>2#20mm |
| RB2 | 2#16mm<br>6#@7" C/C - 2L<br>2#20-CKD<br>2#20mm | 2#16mm<br>6#@6" C/C - 2L<br>2#20-CKD<br>2#20mm |
| RC2 | —— | 2#16mm<br>6#@6" C/C - 2L<br>2#20mm<br>2#20mm |
| RB3 | 2#16mm<br>6#@7" C/C - 2L<br>2#20-CKD<br>2#16mm | 2#16mm<br>6#@6" C/C - 2L<br>2#20-CKD<br>2#16mm |
| RC3 | —— | 2#16mm<br>6#@6" C/C - 2L<br>2#20-mm+1#16-mm<br>2#16mm |
| RB4 | 2#16mm<br>6#@7" C/C - 2L<br>2#16-CKD<br>2#16mm | 2#16mm<br>6#@6" C/C - 2L<br>2#16-CKD<br>2#16mm |
| RC4 | —— | 2#16mm<br>6#@6" C/C - 2L<br>2#16mm+1#20mm<br>2#16mm |
| RB5 | 2#12mm<br>6#@7" C/C - 2L<br>2#16-CKD<br>2#16mm | 2#12mm<br>6#@6" C/C - 2L<br>2#16-CKD<br>2#16mm |
| RC5 | —— | 2#12mm<br>6#@6" C/C - 2L<br>2#16-mm<br>2#16mm |
| RB6 | 2#12mm<br>6#@7" C/C - 2L<br>2#12-CKD<br>2#12mm | 2#12mm<br>6#@6" C/C - 2L<br>2#12-CKD<br>2#12mm |
| RB7 | 2#12mm<br>6#@7" C/C - 2L<br>2#12mm<br>2#12mm | 2#12mm<br>6#@6" C/C - 2L<br>2#12mm<br>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<br>2#16mm<br>2#12mm | 2#12mm<br>2#16mm<br>2#12mm |
| CONCEALED BEAM | | 2#12mm<br>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
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14. STRUCTURAL ENGINEERS RESPONSIBILITY IS LIMITED TO DESIGN AND
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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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Office : 0431-2770027, 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
at TRICHY.

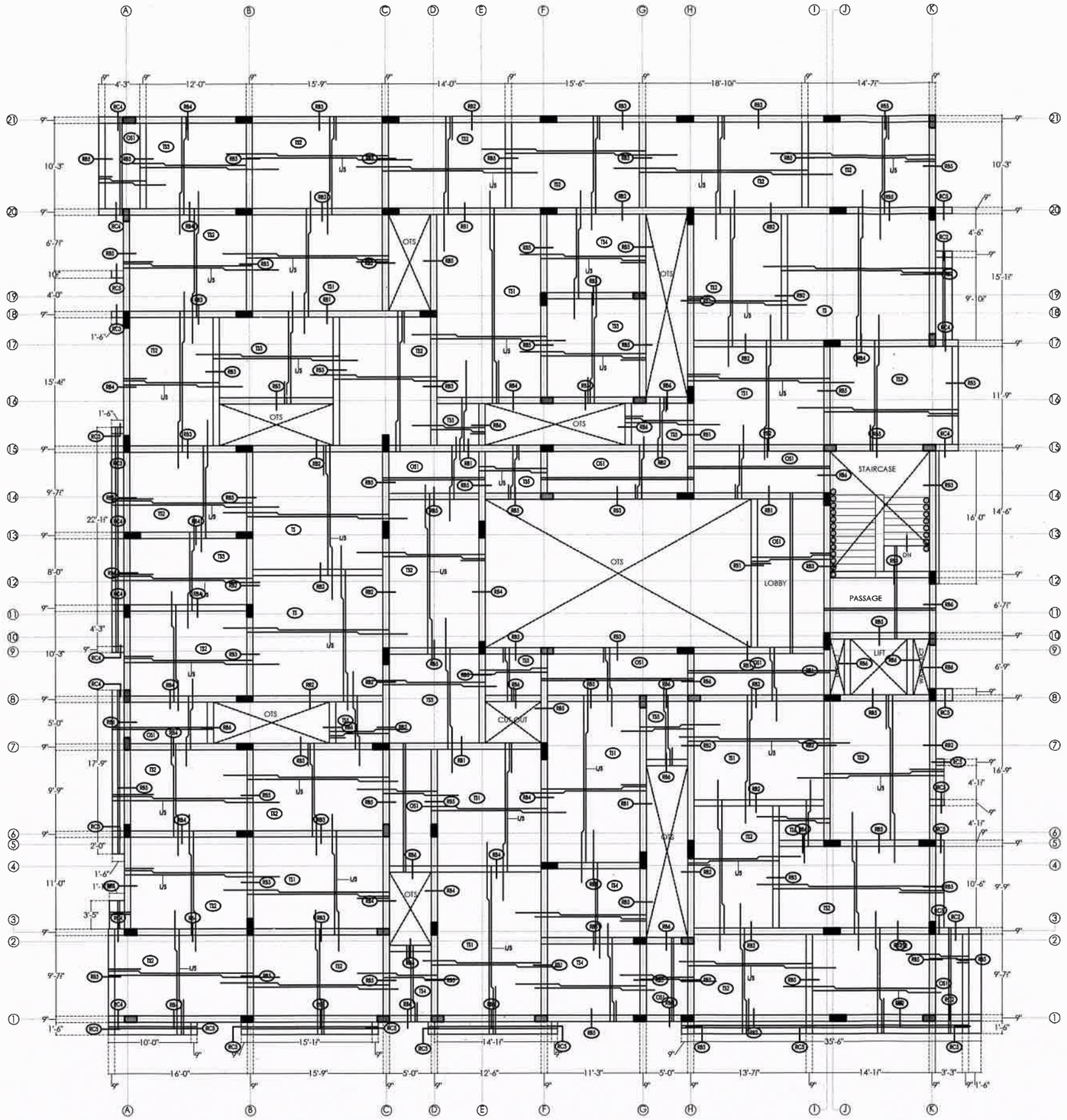
ENGINEER

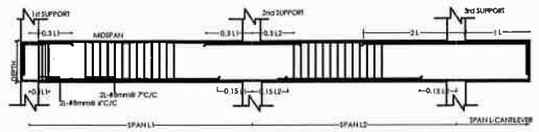
AREA DETAILS
ROOF STRUCTURAL DETAILS

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

N


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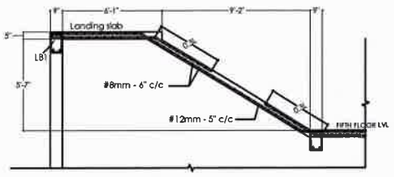




L/1 DETAILS OF ROOF BEAM

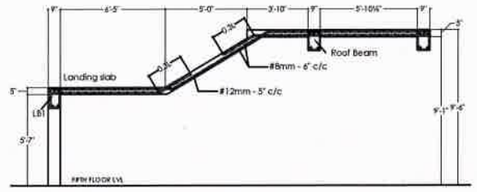
C.S OF ROOF BEAMS

| BEAM-No | AT MID SPAN | AT SUPPORT |
|---|---|---|
| RB1 | 2#20mm<br>8#@7" C/C - 2L<br>2#20-CKD<br>2#20mm | 2#20mm<br>8#@6" C/C - 2L<br>2#20-CKD<br>2#20mm |
| RB2 | 2#16mm<br>8#@7" C/C - 2L<br>2#20-CKD<br>2#20mm | 2#16mm<br>8#@6" C/C - 2L<br>2#20-CKD<br>2#20mm |
| RC2 | —— | 2#16mm<br>8#@6" C/C - 2L<br>2#20mm<br>2#20mm |
| RB3 | 2#16mm<br>8#@7" C/C - 2L<br>2#16-CKD<br>2#16mm | 2#16mm<br>8#@6" C/C - 2L<br>2#16-CKD<br>2#16mm |
| RC3 | —— | 2#16mm<br>8#@6" C/C - 2L<br>2#16mm +1#20mm<br>2#16mm |
| RB4 | 2#12mm<br>8#@7" C/C - 2L<br>2#16-CKD<br>2#16mm | 2#12mm<br>8#@6" C/C - 2L<br>2#16-CKD<br>2#16mm |
| RC4 | —— | 2#12mm<br>8#@6" C/C - 2L<br>2#16-mm<br>2#16mm |
| RB5 | 2#12mm<br>8#@7" C/C - 2L<br>2#16-CKD<br>2#12mm | 2#12mm<br>8#@6" C/C - 2L<br>2#16-CKD<br>2#12mm |
| RC5 | —— | 2#12mm<br>8#@6" C/C - 2L<br>2#16-mm<br>2#12mm |
| RB6 | 2#12mm<br>8#@7" C/C - 2L<br>2#12-CKD<br>2#12mm | 2#12mm<br>8#@6" C/C - 2L<br>2#12-CKD<br>2#12mm |
| RB7 | 2#12mm<br>8#@7" C/C - 2L<br>2#12mm<br>2#12mm | 2#12mm<br>8#@6" C/C - 2L<br>2#12mm<br>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<br>2#16mm<br>2#12mm | 2#12mm<br>2#16mm<br>2#13mm |
| CONCEALED BEAM | 2#12mm<br>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".
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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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|---|---|---|---|---|---|---|---|---|
| PA | mukesh m | prabu k | client | 16-10-2025 | ST | Not to scale | 0 | |

CLIENT
PROPOSED APARTMENT FOR
Mr.MANIVANNAN
at TRICHY.

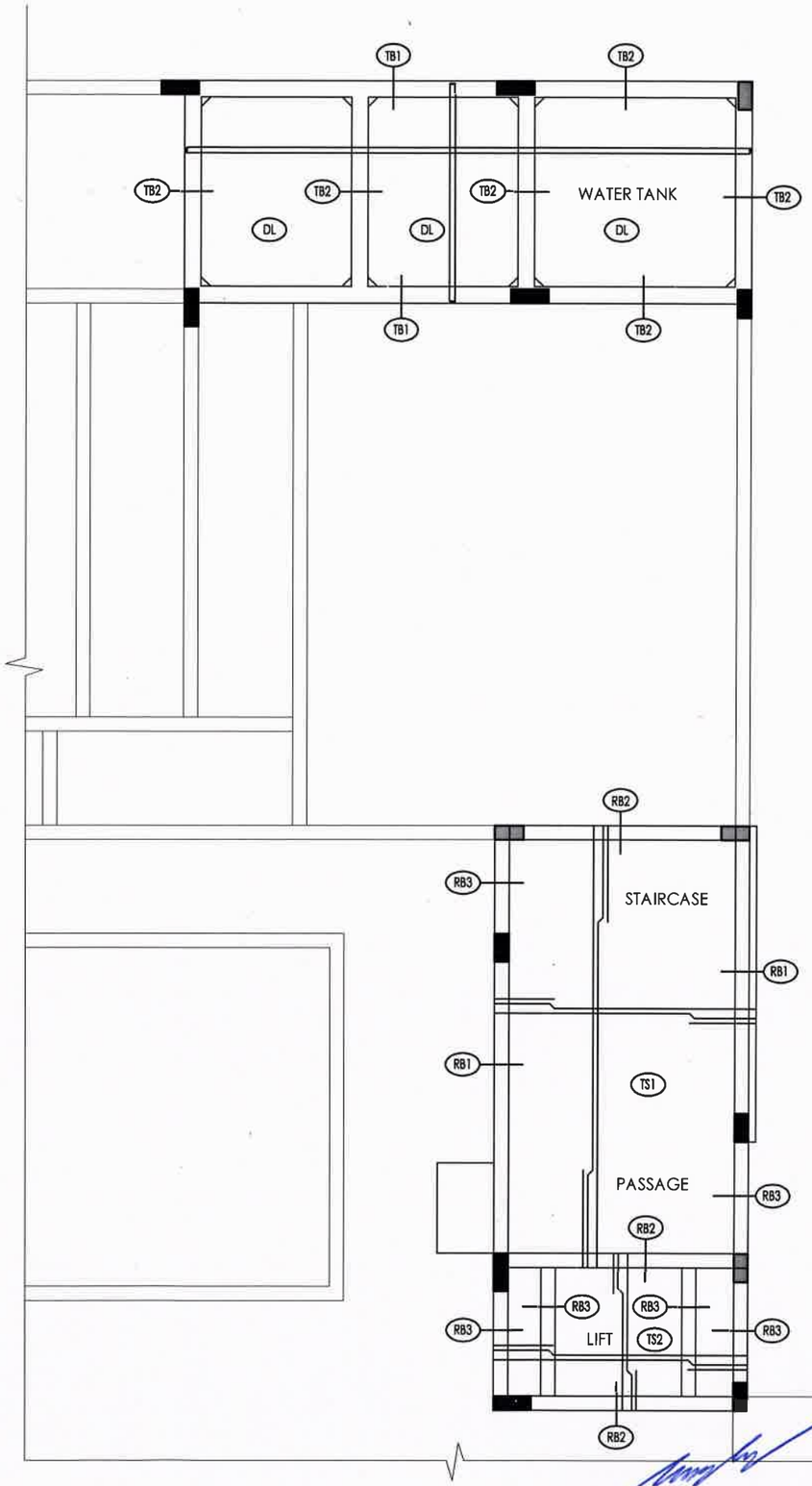
ENGINEER

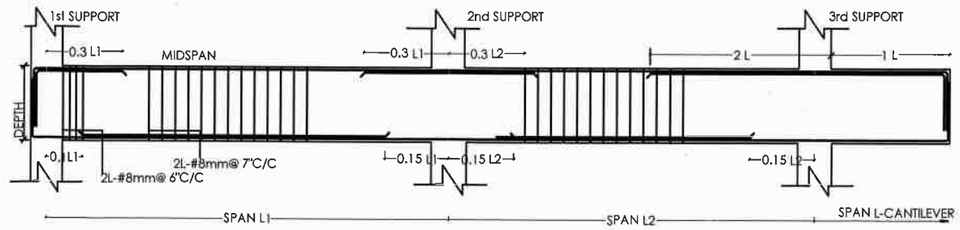
AREA DETAILS
ROOF STRUCTURAL DETAILS

DRAWING TITLE
FIFTH FLOOR PLAN

N


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 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".
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.


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
HEAD ROOM & OHT DETAIL

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

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

**Verified RealEstate**
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai 600 097, India
**hello@verified.realestate**
+91 9996 12 9996

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.