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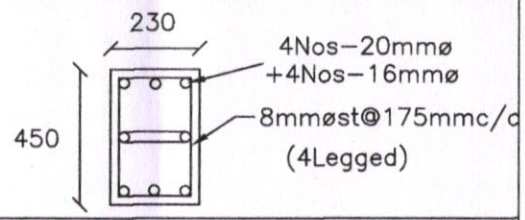
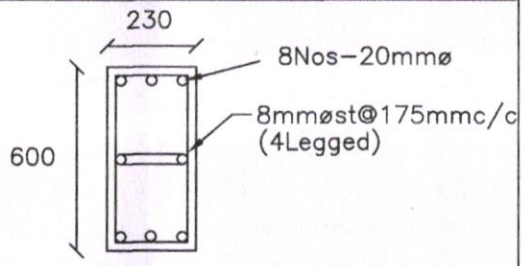
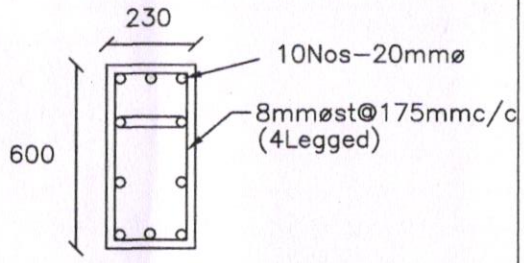
LOAD CALCULATION DETAILS FOR PROPOSED CONSTRUCTION OF AFFORDABLE RESIDENTIAL APPARTMENT BUILDING STILT+5 FLOORS IN NEW T.S.NO.72/2, BLOCK NO :24, WARD :I AT PANDAMANGALAM , K.ABISHEKAPURAM ZONE, TIRUCHIRAPPALLI CITY CORPORATION .

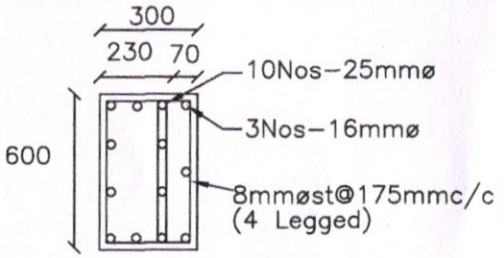
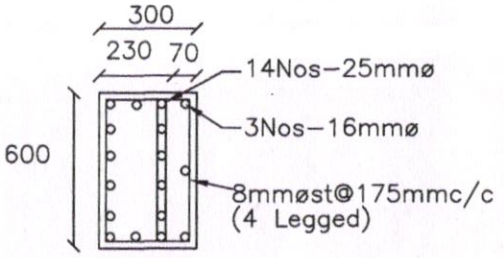
LOAD CALCULATIONS AS PER IS 875

Sl.No	Description	Length in 'm'		Width in 'm'		Depth in 'm'		Sp.Wt	Total Load in KN
1	LOADING ON SLAB/Sq.m Input								
	Thickness of Slab	0.13		m					
	Live Load	3		KN/m^2					
	Self Weight of Slab	1	x	1	x	0.13	x	24	3.12
	Live Load	1	x	1	x	1	x	3	3
	Floor finish load	1	x	1	x	1	x	2	2
							Total Load		8.12 KN/m^2
2	LOADING ON OUTER BEAM/M Input								
	Slab Length for distribution of load	5.56	m						
	Width of Beam	0.23	m						
	Depth of Beam	0.45	m						
	Thick&Height of Brick Wall	0.23	m			3.05	m		
	Self Weight of Beam	1	x	0.23	x	0.45	x	24	2.484
	Brick wall Weight	1	x	0.23	x	3.05	x	20	14.03
	Load from Slab	5.56	x	0.5	x	1	x	8.12	22.574
							Total		39.088 KN/M
3	LOADING ON INNER BEAM/M								
	Slab Length for distribution of load	6.71	m						
	Width of Beam	0.23	m						
	Depth of Beam	0.53	m						
	Thick&Height of Brick Wall	0.23	m			3.05	m		
	Self Weight of Beam	1	x	0.23	x	0.53	x	24	2.93
	Brick wall Weight	1	x	0.23	x	3.05	x	20	14.03
	Load from Slab	6.71	x	1	x	1	x	8.12	54.485
							Total		71.445 KN/M

J. RAGHAVENDIRAN,B.E.,F.I.V.,
STRUCTURAL CONSULTANT
No:83, 1st Floor, Anandam Nagar,
3rd Cross, Behind [illegible]nayyappa Nagar,
Vayalur Road, Trichy - 620 017.
M : 98424 45699, 63817 55326
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COLUMN CROSS SECTION DETAILS FOR PROPOSED CONSTRUCTION OF AFFORDABLE RESIDENTIAL APPARTMENT BUILDING STILT+5 FLOORS IN NEW T.S.NO.72/2, BLOCK NO :24, WARD :I AT PANDAMANGALAM , K.ABISHEKAPURAM ZONE, TIRUCHIRAPPALLI CITY CORPORATION

COLUMN TYPE	C/S OF COLUMN
TYPE 1	
TYPE 2	
TYPE 3	

COLUMN TYPE	C/S OF COLUMN
TYPE 4	
TYPE 5	

NOTE:

Structure Engineer Takes no Responsibility in the Violation /Deviation of setback &FSI Norms in the DCR

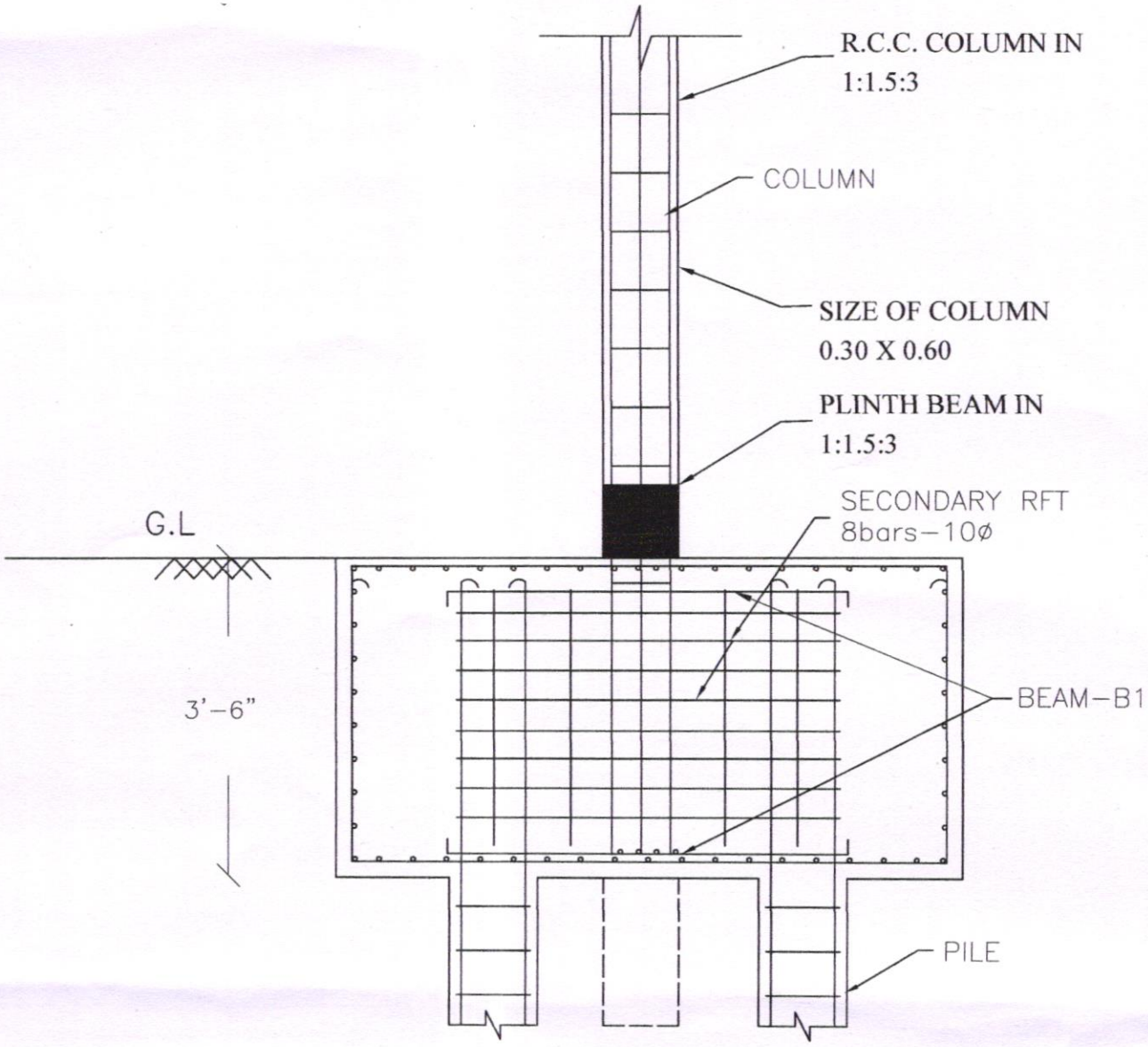
NOTE:

RCC MIX	- M20
REINFORCEMENT	- Fe415
CLEAR COVER FOR COLUMN	= 40mm
CLEAR COVER FOR COLUMN FOOTING	= 50mm

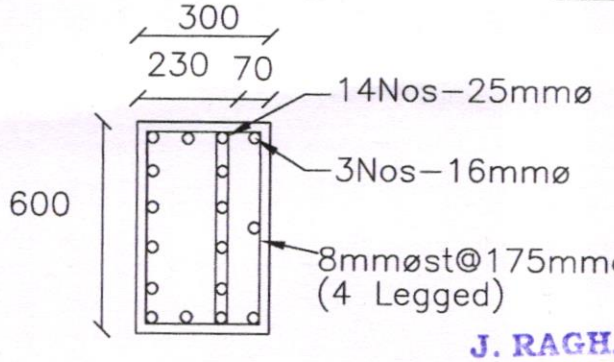
J. RAGHAVENDIRAN, B.E., F.I.V.,
STRUCTURAL CONSULTANT
No:83, 1st Floor, Aanandam Nagar,
3rd Cross, Behind Ammayyappa Nagar,
Vayalur Road, Trichy - 620 017.
M : 98424 45699, 63817 55326
SE/Gr.II/TLPA/JULY2019/145

STRUCTURAL CONSULTANT:
J.RAGHAVENDIRAN, B.E., D.C.M., F.I.V.,
VENUS BUILDERS,
NO:83, 1st FLOOR, AANANDAM NAGAR,3rd CROSS, BEHIND AMMAYAPPA NAGAR, VAYALUR ROAD,TRICHY - 17.
CELL : 98424 - 45699

COLUMN AND FOUNDATION DESIGN FOR AFFORDABLE RESIDENTIAL APPARTMENT BUILDING STILT+5 FLOORS IN NEW T.S.NO.72/2, BLOCK NO :24, WARD :I AT PANDAMANGALAM , K.ABISHEKAPURAM ZONE, TIRUCHIRAPPALLI CITY CORPORATION



FOUNDATION DETAILS



COLUMN C/S

J. RAGHAVENDIRAN, B.E., F.I.V.,
STRUCTURAL CONSULTANT
No:83, 1st Floor, Aanandam Nagar,
3rd Cross, Behind Ammayyappa Nagar,
Vayalur Road, Trichy - 620 017.
M : 98424 45699, 63817 55326
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STRUCTURAL CONSULTANT:
J.RAGHAVENDIRAN, B.E., D.C.M., F.I.V.,
VENUS BUILDERS,
NO:83, 1st FLOOR, AANANDAM NAGAR,3rd CROSS, BEHIND AMMAYAPPA NAGAR, VAYALUR ROAD,TRICHY - 17.
CELL : 98424 - 45699

VENUS BUILDERS

j.raghavendiran,b.e.,d.c.m.,f.i.v.,
structural consultant,
builder & valuer,
venus builders,
no:83,1st floor,aanandam nagar,
3rd cross, behind ammaiyappa
nagar,vayalur road,
trichy-17.
cell:98424 45699

COLUMN AND FOUNDATION DESIGN FOR AFFORDABLE RESIDENTIAL APPARTMENT BUILDING STILT+5 FLOORS IN NEW T.S.NO.72/2, BLOCK NO :24, WARD :I AT PANDAMANGALAM , K.ABISHEKAPURAM ZONE, TIRUCHIRAPPALLI CITY CORPORATION

The column and foundation shall be designed for the maximum critical span of (22'0") 6.71m

DESIGN:

Live load	-	300Kg/m^2
Dead load	-	(1.00x1.00x0.13x2400) =312Kg/m^2
Live load + Dead load		=612Kg/m^2
Load to be transferred to the Beam	-	1x4.7x612x1 =2876.4Kg/m (Or) 3000Kg/m
Load to be taken by column for the span of 6.71m	-	3000 x 6.71m = 20,130Kg/floor

Since the proposed building will have S+5.

The column shall be designed for 6 floors.

Hence the total load taken by a critical column - 6 x 20,130Kg/floor = 1, 20,780 Kg (OR) 1, 21,000Kg (121 Tons)

Assuming Self weight of column & foundation @ 10%

Total load taken by a column 109 Tons.

Using R.C.C. M20 mix concrete and Fe 550 steel.

Assuming area of column Ac

Area of column main rod 1.5% of Ac

J. RAGHAVENDIRAN,B.E.,F.I.V.,
STRUCTURAL CONSULTANT
No:83, 1st Floor, Aanandam Nagar,
3rd Cross, Behind Ammaiyappa Nagar,
Vayalur Road, Trichy - 620 017.
M : 98424 45699, 63817 55326
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Pu = 0.4 x 200 x Ac + 0.67 x fy x Ast

1,21,000 = 0.4 x 200 x (Ac-0.015Ac) + 0.67x5500x0.015Ac

1,21,000= 78.4Ac + 73.7Ac

134.1Ac = 1,21,000

Ac = 902.31 cm^2

Hence Provided Column Size as 30 cm x 60 cm

Area of column Ac = 30 x 60 = 1800cm^2

>902.31cm^2

Hence safe.

Ast. Required 1.5/ 100 x 1800 = 27 cm^2

Hence provided 14 nos of 25mm dia bars + 3 nos of 16mm dia bars

25mm = 14X 4.91 = 68.74 cm^2

16mm = 3 X 2.01 = 6.03 cm^2

= 68.74 cm^2 + 6.03 cm^2

= 74.477 cm^2 >27 cm^2

Hence Safe

FOUNDATION:

To transfer the column load of 121T provide 4nos - 45cm dia piles to a depth of 6m

J. RAGHAVENDIRAN,B.E.,F.I.V.,
STRUCTURAL CONSULTANT
No:83, 1st Floor, Anandam Nagar,
3rd Cross, Behind Venkayyappa Nagar,
Vayalur Road, Trichy - 620 017.
M : 98424 45089, 63817 55326
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STABILITY CERTIFICATE
FORM-A

1. Applicant : Mr.S.Alavudeen

2. Location of site : Affordable Residential Appartment Building Stilt+5 Floors in New T.S.NO.72/2, Block No:24 , Ward :I at Pandamangalam , K.Abishekapuram Zone, Tiruchirappalli City Corporation.

3. Year of Construction : Proposed Building

4. Approximate cost of Construction as Per current rates : Rs.4,63,00,000/-

5. Purpose for which the Building is to be proposed : Residential Building

6. Details of Construction of the Building
(Particulars of the foundation soil, Specification of the various parts under)

1. Foundation	:	RCC framed Structure, Pile Foundation
2. Basement	:	RCC Column& Plinth beam in 1:1.5:3 mix & Brick Wall CM 1:6
3. Super Structure	:	RCC Column With Brick Wall in CM 1:6
4. Floor and Roof Stilt, First, Second Third, Fourth& Fifth	:	RCC Roof with Ceramic tiles Flooring

7. Period for which License required : Proposed Building

8. No of persons to accommodate : 100 Persons

Hence I certify that this structure consisting of Stilt+5 floors in Affordable residential Apartment Building consisting of 20units will be Safe, Stable and Sound.

J. RAGHAVENDIRAN, B.E., F.I.V.,
STRUCTURAL CONSULTANT
No:83, 1st Floor, Anandam Nagar,
3rd Cross, Behind Ayyappa Nagar,
Vayalur Road, Trichy - 620 017.
M : 98424 45699, 63817 55326
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FORM-B

Form of Certificate of structural soundness under sub-section (4) of the Tamil Nadu public buildings (Licensing) Act 1965.

(Tamil Nadu Act13 of 1965) referred it is rule 4 of the Tamil Nadu public buildings (Licensing) rules 1966.

Since the building is a proposed one, this Certificate is not issued.

J. RAGHAVENDIRAN,B.E.,F.I.V.,
STRUCTURAL CONSULTANT
No:83, 1st Floor, Anandam Nagar,
3rd Cross, Behind Ammayyappa Nagar,
Vayalur Road, Trichy - 620 017.
M : 98424 45[illegible], 63817 55326
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STATEMENT TO ACCOMPANY THE CERTIFICATE OF STRUCTURAL SOUNDNESS

1. Location of the building	:	Affordable Residential Appartment Building Stilt+5 Floors in New T.S.NO.72/2, Block No:24 , Ward :I at Pandamangalam , K.Abishekapuram Zone, Tiruchirappalli City Corporation.
2. Age of the Building	:	Proposed Building
3. Purpose for which the Building Will be Structurally Sound	:	Residential Building
4. The period for which the Building Will be Structurally Sound	:	Proposed Building
5. Number of persons to accommodate	:	100 persons
6. Remarks	:	Proposed Framed structure with RCC 1:2:4 Column ,Beams ,Slabs With Brick Walls in CM 1:6

J. RAGHAVENDIRAN,B.E.,F.I.V.,
STRUCTURAL CONSULTANT
No:83, 1st Floor, Anandam Nagar,
3rd Cross, Behind Ammayyappa Nagar,
Vayalur Road, Trichy - 620 017.
M : 98424 45[illegible], 63817 55326
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FORM-C

(C Form of Certificate of structural soundness under sub-section (4) of section 4 of the Tamil Nadu public buildings (Licensing) Act 1965.

(Tamil Nadu Act13 of 1965) referred to in rule 4 of the Tamil Nadu public buildings (Licensing rule 1966).

1. FOUNDATION

i. Depth below ground level : 6m from Ground Level

ii. Nature of soil at which the foundation rest : Clay

iii. Safe bearing Capacity of the soil met with at foundation : 30 T /m^2

iv. Load to be transmitted by foundation : 30 T /m^2

2. SUPER STRUCTURE

i. Maximum stress in the most Critical section of masonry : 75 Kg / cm^2

Permissible maximum stress in Masonry : 100 Kg / cm^2

ii. Maximum stress in the most Critical section RCC Structure : 90 Kg / cm^2

Safe maximum permissible stress in RCC Structure : 150 Kg / cm^2

This is stated the building will be designed to take seismic force and other loads as per the relevant Indian Standard codes.

J. RAGHAVENDIRAN,B.E.,F.I.V.,
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Vayalur Road, Trichy - 620 017.
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