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SURIYA PRABHA STRUCTURAL CONSULTANTS

10/C3, Elegant Apartments, Perumal Koil First Street,
Kottur, Chennai - 600 085

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Er.S. Ramachandran
M.E.Struct, D.I.I.T. Building Tech.,
Office No. 044 - 2366 0056

STRUCTURAL STABILITY CERTIFICATE

The detailed engineering and structure design of the proposed residential (building)Villas : 1 to 42 in Plot Numbers: 1 to 42 comprising of G+1 Floors Named**"BEVERLY RIDGE"**in Survey No.11/2B2B1A,11/2B2C& 11/4, situated at Pudupakkam Village, ThiruporurPanchayatUnion, VandalurTaluk, Chengalpet Districthas been done by us based on the report of geotechnical investigation (soil test) done by JeyamGeotech withTest Report No:JGT/VNCT GLOBAL/M-102/24-25 dated 20.02.2025 and considering the functional requirement of the Building.

2. It is certified that among other factors, the proposed building has been designed to resist earthquake. We have checked various parameters and found that the proposed building would be safe.

3. We further certify that:

(i) The minimum grade of concrete is **M-25**

(ii) The design and analysis has 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** and design earthquake resistant structure as per IS Code No

IS 1893-2002.

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

Er. S. RAMACHANDRAN
M.E (Struct), DIIT (Bldgs. Tech)
Structural Engineer Grade - I (SE)
Reg. No: CGL DIST/SE/GR-1/2021/10/006
Dt.: 04.02.2019 Valid Upto 12.10.2026

As per Structural Design Calculation:

These Buildings (Ground + 1st Floor) are designed for all forces as per code.

The soil Brownish Silty Dense Fine Sand mixed with gravels.
The foundation depth proposed at 2.2m and SBC at this depth is 140kn/m^2.
Isolated and Combined footing proposed for foundation.

Loading:

1. Floor	:	3KN / M^2
2. Roof	:	1.5KN / M^2
Concrete	:	M-25
Steel	:	Fe 500
Earth Quake Zone	:	III

Clear Cover:

Footing	:	50mm
Columns	:	25mm
Beam	:	40mm
Floor Slab	:	20mm
Roof Slab	:	25mm
Development Length	:	40d + 10d
Type of Foundation	:	Shallow Foundation

We certify that the building is designed as Earthquake Resistant Building .We will frequently inspect the site for quality of materials and construction.

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The Building is designed as per IS codes.

IS 875	-	for loads calculation.
IS: 456-2000	-	Concrete code
IS: 1893-2002	-	Earthquake Resistant Design of Structures.
IS: 13920-1993	-	Ductile Detailing for Earthquake Resistant
IS: 800 – 2002	-	Steel Code

Reinforcement detailing is proposed as Ductile detailing for Earth quake. We certify that the design is Structurally Safe and sound and inspection will be carried out then and there for quality of materials and construction .

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Dt.: 04.02.2019 Valid Upto 12.10.20

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COLUMN LOAD CALCULATION:

Floor slab:

Self weight	0.125x 25	=	3.125KN/m²
Live load		=	3.00 KN/m²
Floor Finish		=	1.00 KN/m²
			7.125 KN/m²

Say 8 KN/m²

Terrace Floor slab:

Self weight	0.125 x 25	=	3.125KN/m²
Live load		=	1.50 KN/m²
Floor Finish		=	2.50 KN/m²
			7.125 KN/m²

Say 8 KN/m²

Load on Column A1:

From Slab	=	2.0 x 2.0 x 16	=	64
From Wall	=	4.0 x 0.20 x 20 x 7.20	=	115
				179 KN

Say **200** KN

Er. S. RAMACHANDRAN
M.E (Struct), DIIT (Bldgs. Tech)
Structural Engineer Grade - I (SE)
Reg. No: CGL DIST/SE/GR-1/2021/10/008
Dt.: 04.02.2019 Valid Upto 12.10.2026

DESIGN FOR COLUMN

DESIGN OF LONG / SHORT COLUMN WITH BIAXIAL BENDING

GENERAL DATA

FCK IN N/SQ.MM . . . . . = 25
FY IN N/SQ.MM . . . . . = 500
EFFECTIVE COVER TO CENTRE OF STEEL IN MM (d') = 40
TYPE OF COLUMN
SHORT COLUMN - UNIAXIAL BENDING : 1
SHORT COLUMN - BIAXIAL BENDING : 2
LONG COLUMN . . . . . : 3
GIVE NUMBER FOR YOUR COLUMN TYPE (1 / 2 / 3)= 1
TOTAL NO. OF COLUMNS TO BE DESIGNED ? . . = 1
DO YOU WANT PRINTOUT ? (Y / N) . . . = n
UNSUPPORTED LENGTH OF COLUMN Lx IN M . . = 3

TOTAL COLUMNS : 1

SEQUENCE OF INPUT : [1] N$, [2] B , [3] D , [4] P , [5] MX , [6]
REINF.POSITION [A For All Sides OR T For Two Sides]

INPUT FOR COLUMN NO [1] = C1,200,300,200,15,A

ITEM NUMBER = 1
COMPUTATION IN PROGRESS. Please wait ...

NAME	B	D	P	MX	MUX	REINF.POS	P%	AS
C1	200	300	200.0	15.00	22.50	ALL SIDES	0.80	4.80

DESIGN FOR FOOTING

ISOLATED FOOTING FOR AXIAL LOAD AND MOMENT WITH OR WITHOUT ECCENTRICITY

GENERAL DATA

FCK IN N/SQ.MM . . . . . .= 25
FY IN N/SQ.MM. . . . . .= 500
EFECTIVE COVER TO CENTRE OF REINF. IN MM . . . . . .= 50
DOES THE FOOTING REST ON HARD ROCK ? (Y / N) . = N
DO YOU WANT TO DESIGN ECCENTRIC FOOTING ? (Y / N) = N
S.B.C IN KN/SQ.M . . . . . .= 140
PT MINIMUM FOR TENSION STEEL ? (0.12 / 0.20) . . .= .2
NO. OF FOOTINGS TO BE DESIGNED ? . . . . . = 1

* DESIGN OF SIMPLE SQUARE OR RECTANGULAR FOOTING *

SEQUENCE OF INPUTS:

[1] NAME, [2] LOAD IN KN., [3] PEDESTAL SIZE IN MM IN X-DIR, [4] PEDESTAL SIZE IN MM IN Y-DIR, [5] LENGTH OF FOOTING IN M IN X-DIR,{LX} [6] WIDTH OF FOOTING IN M IN Y-DIR {LY}

NOTE : FOR SQUARE FOOTING GIVE BOTH LX & LY AS ZERO
FOR RECTANGULAR FOOTING GIVE REQUIRED VALUE EITHER FOR LX OR LY WITH

OTHER VALUE AS ZERO

TOTAL FOOTINGS = 1

INPUT FOR FOOTING NO. 1 = F1,200,300,200,0,0

S.NO	NAME	LOAD IN [KN]	PDX IN [MM]	PDY IN [MM]	FOOTING DETAILS LX [M]	BY [M]	D [MM]	D0 [MM]	ASTX [CM^2]	ASTY [CM^2]
1	F1	200	300	200	1.25	1.25	300	200	5.20 B	5.05

NOTE : B DENOTES BOTTOM LAYER OF REINFORCEMENT IN THE MAT



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Vastu & Property Management Tools

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Verified RealEstate™

We're honored to be part of your real estate journey

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