



S K C STRUCTURAL CONSULTANTS

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CHENNAI - 600 083

Er.M.TAMIL. SELVAN, M.Tech (Stru.)
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STRUCTURAL STABILITY CERTIFICATE

The detailed engineering and structure design of the proposed residential Building in Plot Numbers: 9, 33, 46, 47, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 65, 79, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94 & 95pt, 97, 98, 99, 100, 101 and Villas: 1, 25, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85 & 86 (38 Villas + CH) **"THE MADRAS PAVILION PHASE-I"** Comprised in Survey No. 205/2A & 205/3A situated at Thiruporur Village, Thiruporur Taluk, Chengalpattu District has been done by us based on the Report of geotechnical investigation (Soil test) done by JEYAM GEO TECH with Test Report No: **JGT/M/s.VNCT GLOBAL LLP/101/25-26 dated 23.09.2025** 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 1893-2016**.

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


Er. M.TAMILSELVAN, M.Tech(Struct.)
STRUCTURAL ENGINEER GRADE - I (SE)
DTCP REG.NO: CGLD/ST/SE/GR-I/2025/10/013
VALID UPTO: 28/10/2030

As per Structural Design Calculation:

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

The soil is Soft Disintegrated Rock. The foundation depth proposed at 2.0m and SBC at this depth is 200kn/m². Isolated and Combined footing proposed for foundation.

Loading:

1. Floor	:	3KN / M ²
2. Roof	:	1.5KN / M ²
Concrete	:	M-25
Steel	:	Fe 550
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: 1893-2016 - 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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