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Anand Associates

Er. P. ANAND RAJU
M.E. (STRUCT), M.Sc. (REV), M.Sc (P&M), M.B.A., Ph.D., LLB, FIV, M.I.E.,
M.I.C.I, M.I.C.E, F.A.C.C.E, M.I.S.T.E, M.I.S.S.E, M.C.E, M.I.A.S.E, D.M.M.T.L.M.

Class-1A Panel of Private Practicing Engineer, Chennai Dist. | | Structural Engineer |
Registered Valuer under Companies Act | Approved Valuer | Income Tax Valuer | Chartered Engineer | Licensed Surveyor

STRUCTURAL STABILITY CERTIFICATE

We certify that Report on the Proposed Construction of Stilt + 5 Floors Residential Building With 34 Dwelling Units Cum Commercial Building (18.00M height) at Lakshmi Nagar Main Road, Madhanandapuram, Chennai-600 125, Bearing S.No-218 / 2A & 218 / 2B of Madhanandapuram Village with in the Limit of Greater Chennai Corporation.

This building is a **R.C.C Framed** structure.

The Deflection as per the As Built Drawing is very much less than the approval drawing, Hence structurally sound and fit for occupation.

We hereby certify that

1. These buildings consist of Stilt + 5 Floors only. The usage of the building is for Residential Cum Commercial purpose.
2. The building has been designed as per
   IS: 456 Code of Practices for Plain and Reinforced Concrete
   IS: 875 – 1986 Code of Practices for Design Load (part 1,2 &3)
   IS: 1893 Code of Practices for Seismic Force
   IS: 1786-1985 Code of Practices specified for high strength deformed steel bars.
3. The superstructure is built on 9" thick brick wall and 4 1/2" brick wall.
4. The Safe bearing capacity of soil is 100 MT.

Your's sincerely,
For
(Er.P.Anand Raju.)

Er. P. ANAND RAJU
Registered Structural Engineer Grade - I (SE)
CMDA No: SE/GR-I/2024/02/004
Flat No:2, First Floor, S-133, S-Block
6th Main Road, Anna Nagar, Chennai -600 040
Ph/Fax: 044 42643214, Cell: 9840488820,
E-Mail: aanandassociate@gamil .com

STABILITY CERTIFICATE

PROPERTY AT:

REPORT ON THE PROPOSED CONSTRUCTION OF STILT + 5 FLOORS RESIDENTIAL BUILDING WITH 34 DWELLING UNITS CUM COMMERCIAL BUILDING (18.00M HEIGHT) AT LAKSHMI NAGAR MAIN ROAD, MADHANANDAPURAM, CHENNAI-600 125, BEARING S.NO-218 / 2A & 218 / 2B OF MADHANANDAPURAM VILLAGE WITH IN THE LIMIT OF GREATER CHENNAI CORPORATION.

Mobile : 9840488820
Phone : 044-42643214
044-42106868

Er. P. Anand Raju, B.E.,M.E(Stru..)., FIV
Chartered Engineer and Valuer
Flat No: 2, First Floor, Old No: S113,
New No: 67, S Block, 6th Main Road,
Anna Nagar, Chennai - 600040

Er. P. ANAND RAJU
Registered Structural Engineer Grade - I (SE)
CMDA No: SE/GR-I/2024/02/004
Flat No:2, First Floor, S-133, S-Block
6th Main Road, Anna Nagar, Chennai -600 040
Ph/Fax: 044 42643214, Cell: 9840488820,
E-Mail: aanandassociate@gamil .com

STRUCTURAL STABILITY CERTIFICATE

STATEMENT ACCOMPANYING FORM "A"

1. Door No. the Building	:	Report on the Proposed Construction of Stilt + 5 Floors Residential Building With 34 Dwelling Units Cum Commercial Building(18.00M height) at Lakshmi Nagar Main Road, Madhanandapuram, Chennai-600 125, Bearing S.No-218 / 2A & 218 / 2B of Madhanandapuram Village with in the Limit of Greater Chennai Corporation.
2. Location/Address of the building	:	--DO--
3. Name of Place, i.e corporation/ Muncipality/panchayat union/ Township/ Construction	:	--DO--
4. Year of Construction	:	NEW
5. Approximate cost of Construction As per current rate	:	6,00,00,000
6. Purpose for which the building is Being used or proposed to be used	:	Residential Building
7. Purpose for which the building has hither to been used	:	Residential Building
8. Total area of the Residential Building	:	3093.83 Sq. M
9. Details of construction of the building (Particulars of the foundations soil, Specification of various parts under)		
a. Foundation	:	Pile Foundation
b. Basement		
c. : Brick work		
d. Roof	:	RCC Slab
10. Period for which license is required	:	**09.07.2024 to 08.07.2027** (Three years)
11. Number of persons to be Accommodated	:	175 Nos

SIGNATURE OF THE OWNER OF THE BUILDING

ENGINEER

Er. P. ANAND RAJU
Registered Structural Engineer Grade - I (SE)
CMDA No: SE/GR-I/2024/02/004
Flat No:2, First Floor, S-133, S-Block
6th Main Road, Anna Nagar, Chennai -600 040
Ph/Fax: 044 42643214, Cell: 9840488820,
E-Mail: aanandassociate@gamil .com

STRUCTURAL STABILITY CERTIFICATE

STATEMENT ACCOMPANYING FORM "B"

I certify that the Proposed Construction of Stilt + 5 Floors Residential Building With 34 Dwelling Units Cum Commercial Building (18.00M height) at Lakshmi Nagar Main Road, Madhanandapuram, Chennai-600 125, Bearing S.No-218 / 2A & 218 / 2B of Madhanandapuram Village with in the Limit of Greater Chennai Corporation.

Is structurally Sound to be used for the purpose noted in the statement based on the Design Calculation the structural Soundness of the Building has been verified taking into account the loading as per the latest Indian Standards IS 1895.

Signature of the Owner of the Building

ENGINEER

Er. P. ANAND RAJU
Registered Structural Engineer Grade - I (SE)
CMDA No: SE/GR-I/2024/02/004
Flat No:2, First Floor, S-133, S-Block
6th Main Road, Anna Nagar, Chennai -600 040
Ph/Fax: 044 42643214, Cell: 9840488820,
E-Mail: aanandassociate@gamil .com

STRUCTURAL STABILITY CERTIFICATE

STATEMENT ACCOMPANYING FORM "C"

Forum of certificate of structural soundness under sub section (4) of section 4 of the Tamil Nadu Public building (Licensing) Act 1965 (Tamil Nadu Act 13 of 1965) refers to in rule 4 of the Tamil Nadu Public building (Licensing) Act, 1966.

I certify that the building mentioned in the statement and its salient technical features are mentioned below:

1. Foundation:

a. Depth below ground level : 19.0 M Depth

b. Nature of soil met with a Foundation level. : Weathered Road

c. Probable safe bearing capacity of the Strata met with at foundation : 100 MT

2. Superstructure:

a. Maximum stress in the most critical Section of masonry and concrete : Brickwork in CM : 1.0Kg/Sq.m
RCC : 30Kg/Sq.m

b. Nature of masonry and concrete And its safe permissible stress : Brickwork in CM : 5.0Kg/Sq.m
RCC : 50Kg/Sq.m

The structural soundness of the building has been verified by me with referred to ISI loading standards is: 895 (latest version) and other relevant Indian Standards code of practice and I declare that the Building is Structurally Sound to be used for the purpose noted in the statement.

ENGINEER

Er. P. ANAND RAJU
Registered Structural Engineer Grade - I (SE)
CMDA No: SE/GR-I/2024/02/004
Flat No:2, First Floor, S-133, S-Block
6th Main Road, Anna Nagar, Chennai -600 040
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STAETEMENT TO ACCOMPANY THE CERTIFIACTE OF STRUCTURAL SOUNDNESS

Location of the building, Door No, Street Name & Name of the place (1)	Age of the building (2)	Value of the building in Rs. (3)	No. of Storeys (4)	Short description of Structure, Steel, R.C.C framed or Load Bearing Masonry (5)
The Proposed Construction of Stilt + 5 Floors Residential Building With 34 Dwelling Units Cum Commercial Building (18.00M height) at Lakshmi Nagar Main Road, Madhanandapuram, Chennai-600 125, Bearing S.No-218 / 2A & 218 / 2B of Madhanandapuram Village with in the Limit of Greater Chennai Corporation.	**New**	**6,00,00,000**	**Stilt + 5 Floors**	**RCC Structure with M25 concrete & Fe 500 grade steel.**

Purpose for which the building is certified For use (6)	The period for which the building will be structurally sound (7)	No. of persons accommodated (8)	Remarks (9)
Residential Cum Commercial Building	**09.07.2024 to 08.07.2027 (Three years)**	175 Nos	Is Structurally Sound

Signature of the Engineer / Designation

Er. P. ANAND RAJU
Registered Structural Engineer Grade - I (SE)
CMDA No: SE/GR-I/2024/02/004
Flat No:2, First Floor, S-133, S-Block
6th Main Road, Anna Nagar, Chennai -600 040
Ph/Fax: 044 42643214, Cell: 9840488820,
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FORM E

Form of report to be made to the competent authority by inspecting authorities or officers appointed under other act under section 25 of the Madras Public Building Licensing) Act 1965(Madras act 13 of 1965) referred to in rule 7 of the Madras Public Buildings Licensing rule 1966.

1. Name and designation of inspecting Authority or officer appointed or Having Jurisdiction Under any other Act or law : Er.P.ANAND RAJU.
B.E.,M.I.E.,F.I.V.,M.E(Struct).,
FlatNo.2, FirstFloor, oldNo.S-113,
New No.67, Plot No.3901,
S-Block, 6th Main Road,
Anna Nagar, Chennai-600040.

2. Location of the building inspected
D.No / Street / locality : Proposed Construction of Stilt + 5 Floors Residential Building With 3 Dwelling Units Cum Commercial Building (18.00M height) at Lakshmi Nagar Main Road, Madhanandapuram, Chennai-600 125, Bearing S.No-218 / 2A & 218 / 2B of Madhanandapuram Village with in the Limit of Greater Chennai Corporation.

Municipality / Panchayat / Panchayat Union / Township / Cantonment : Greater Chennai Corporation

3. Purpose for which the building is used : Residential purpose.

4. Nature of defects noticed : Proposed Building

5. Suggestion for rectifying defects : Does Not arise

6. If in a dangerous condition
Immediate action Recommended be taken : Proposed Building

Date: 09.07.2024

Signature of Inspecting Authority / Officer
Appointed or having jurisdiction

Er. P. ANAND RAJU
Registered Structural Engineer Grade - I (SE)
CMDA No: SE/GR-I/2024/02/004
Flat No:2, First Floor, S-133, S-Block
6th Main Road, Anna Nagar, Chennai -600 040
Ph/Fax: 044 42643214, Cell: 9840488820,
E-Mail: aanandassociate@gamil .com

REPORT ON THE PROPOSED CONSTRUCTION OF STILT + 5 FLOORS RESIDENTIAL BUILDING WITH 34 DWELLING UNITS CUM COMMERCIAL BUILDING (18.00M HEIGHT) AT LAKSHMI NAGAR MAIN ROAD, MADHANANDAPURAM, CHENNAI-600 125, BEARING S.NO-218 / 2A & 218 / 2B OF MADHANANDAPURAM VILLAGE WITH IN THE LIMIT OF GREATER CHENNAI CORPORATION.

AS BUILT SUBMITTED

Client:

ANAND ASSOCIATES
NO: S113, S-BLOCK, 6th MAIN ROAD,
ANNA NAGAR, CHENNAI – 600040.

Er. P. ANAND RAJU
Registered Structural Engineer Grade - I (SE)
CMDA No: SE/GR-I/2024/02/004
Flat No:2, First Floor, S-133, S-Block
6th Main Road, Anna Nagar, Chennai -600 040
Ph/Fax: 044 42643214, Cell: 9840488820,
E-Mail: aanandassociate@gamil .com

REPORT ON THE PROPOSED CONSTRUCTION OF STILT + 5 FLOORS RESIDENTIAL BUILDING WITH 34 DWELLING UNITS CUM COMMERCIAL BUILDING (18.00M HEIGHT) AT LAKSHMI NAGAR MAIN ROAD, MADHANANDAPURAM, CHENNAI-600 125, BEARING S.NO-218 / 2A & 218 / 2B OF MADHANANDAPURAM VILLAGE WITH IN THE LIMIT OF GREATER CHENNAI CORPORATION.

INTRODUCTION

It has been proposed Residential Cum Commercial building at Lakshmi Nagar Main Road, Madhanandapuram, Chennai. The "Detailed Analysis and Designwork of the building to "ANANDASSOCIATES, CHENNAI. This report deals with the detailedanalysis and design Residential building at Lakshmi Nagar Main Road, Madhanandapuram, Chennai.

GEOMETRY

These buildings are a R.C.C Structure. The building consists of Stilt + 5 Floors. The usage of the building is for Residential purpose Cum Commercial.

MATERIAL

Reinforced cement concrete
Grade of concrete - M 25 (Deign Mix)
Grade of steel – Fe500

LOADINGS

a.Dead load

Unit weight of concrete = 25 kN/m3
Unit weight of solid block = 24 kN/m3
Weathering course = 2.5 kN/m2

b.Live load

Live load on Floor = 2.00kN/m2
Live load on staircase & passage = 6.00 kN/m2
Live load on toilet = 4.00 kN/m2
Live load on balcony = 4.00 kN/m2
(Clause 4.1, Table 2, IS 875 – Part 2)

Er. P. ANAND RAJU
Registered Structural Engineer Grade - I (SE)
CMDA No: SE/GR-I/2024/02/004
Flat No:2, First Floor, S-133, S-Block
5th Main Road, Anna Nagar, Chennai -600 040
Ph/Fax: 044 42643214, Cell: 9840488820,
E-Mail: aanandassociate@gamil .com

SESMIC LOAD

Seismic loads is considered as per IS 1893 2002.
Seismic zone- III
Zone factor- 0.15
Importance factor- 1.0
Soil type- Medium Type II
Response reduction factor- 3

All other dead & live loads are given as gravity loads. The detailing of reinforcement is done as per IS 456-2000, IS 13920:1993 and SP 34. The entire structure is analyzed for each loads and load combinations.

LOAD COMBINATIONS:

1. **GC-01 = 1.0 x DEAD + 1.0 x LIVE**
2. **GC-02 = 1.5 x DEAD + 1.5 x LIVE**
3. **WX1-01 = 1.2 x DEAD + 1.2 x LIVE + 1.2 WX**
4. **WX1-02 = 1.2 x DEAD + 1.2 x LIVE - 1.2 WX**
5. **WX1-03 = 1.5 x DEAD + 1.5 WX**
6. **WX1-04 = 1.5 x DEAD - 1.5 WX**
7. **WX1-05 = 0.9 x DEAD + 1.5 WX**
8. **WX1-06 = 0.9 x DEAD - 1.5 WX**
9. **WX2-07 = 1.2 x DEAD + 1.2 x LIVE + 1.2 WY**
10. **WX2-08 = 1.2 x DEAD + 1.2 x LIVE - 1.2 WY**
11. **WX2-09 = 1.5 x DEAD + 1.5 WY**
12. **WX2-10 = 1.5 x DEAD - 1.5 WY**
13. **WX2-11 = 0.9 x DEAD + 1.5 WY**
14. **WX2-12 = 0.9 x DEAD - 1.5 WY**
15. **EX1-01 = 1.2 x DEAD + 1.2 x LIVE + 1.2 EQX**
16. **EX1-02 = 1.2 x DEAD + 1.2 x LIVE - 1.2 EQX**
17. **EX1-03 = 1.5 x DEAD + 1.5 EQX**
18. **EX1-04 = 1.5 x DEAD - 1.5 EQX**
19. **EX1-05 = 0.9 x DEAD + 1.5 EQX**
20. **EX1-06 = 0.9 x DEAD - 1.5 EQX**
21. **EX2-07 = 1.2 x DEAD + 1.2 x LIVE + 1.2 EQY**
22. **EX2-08 = 1.2 x DEAD + 1.2 x LIVE - 1.2 EQY**
23. **EX2-09 = 1.5 x DEAD + 1.5 EQY**
24. **EX2-10 = 1.5 x DEAD - 1.5 EQY**
25. **EX2-11 = 0.9 x DEAD + 1.5 EQY**
26. **EX2-12 = 0.9 x DEAD - 1.5 EQY**

Er. P. ANAND RAJU
Registered Structural Engineer Grade - I (SE)
CMDA No: SE/GR-I/2024/02/004
Flat No:2, First Floor, S-133, S-Block
6th Main Road, Anna Nagar, Chennai -600 040
Ph/Fax: 044 42643214, Cell: 9840488820,
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ANALYSIS

The entire analysis is carried out using finite element package program Staad pro package for Residential building as per approval drawing. The beams and columns are modeled as frame elements and the slabs are modeled as shell element. Since the Safe bearing capacity of the soil is 100 MT, the columns are assumed to be Pinned at thebase. Seismicanalysis is carried out for seismic forces corresponding to zone III ofseismic zones of India mapas per IS 1893 -2002. Auto generation of lateral loads is done by the program itself for thecorresponding seismic factors.

Yours sincerely,

(P.ANAND RAJU M.E)

Er. P. ANAND RAJU
Registered Structural Engineer Grade - I (SE)
CMDA No: SE/GR-I/2024/02/004
Flat No:2, First Floor, S-133, S-Block
6th Main Road, Anna Nagar, Chennai -600 040
Ph/Fax: 044 42643214, Cell: 9840488820,
E-Mail: aanandassociate@gamil .com



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Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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3/350/2 Mettukuppam,
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Chennai, India

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