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C . Nirmal Chander M.E. (Structures) MIE
Charted Engineer - M 57946
Structural Consultant

25,New Damu Nagar, Puliakulam Road,
Coimbatore - 641037.
Mobile : 94433 28041
E-mail : nirmalg1959@gmail.com

DECLARATION

I NIRMAL CHANDER, B.E.(Civil) M.E.(Structures) MIE, located at #25, New Damu Nagar, Puliakulam road, Coimbatore – 641037, do hereby declare I possess the necessary qualification and experience specified in Table rule II of Public Building (Licensing) Rules 1966 for issuing certificate for the structure having 3 floors (G+2 –Villas), 2 floors (stilt +1 floor- club house) located at S.F.NO : 756/1B1D2,758/3,759/3A,759/3B,760/1A,760/1B, 760/1C1,760/1C1,760/1D1,760/1D2 at Civil, Indra nagar, Aerodrome Po, Kalapatti village, East Goldwins Coimbatore Corporation to be designed structurally safe and sound.

Place : Coimbatore

Date : 17.06.2024

Signature of the Certifying Engineer

G. Nirmal Chander ME (Structures) MIE
Chartered Engineer - M 57946
Structural Consultant
25, New Damu Nagar, Puliakulam Road,
Coimbatore - 641 037.

- NAME AND ADDRESS : G. Nirmal Chander
  #25, New Damu Nagar,
  Puliyakulam road,
  Coimbatore – 641037
- Engineer Qualification : B.E(Civil)M.E.(Structures) MIE
- Experience :36 Years

FOR NIVASAN HOMES PRIVATE LIMITED

DIRECTOR

STATEMENT ACCOMPANY
FORM-A

1 .	Name of the Building	: NIVASAN HOMES PRIVATE LIMITED
2 .	Door No. of the building, Location (Street No., Ward No., Name of Place, i.e., Corporation, Municipality/ Panchayat Union / Panchayat / Township / Cantonment)	: SWARNAPURAA S.F.NO : 756/1B1D2,758/3,759/3A,759/3B,760/1A, 760/1B,760/1C1,760/1C1,760/1D1,760/1D 2 AT CIVIL, INDRA NAGAR, AERODROME PO, KALAPATTI VILLAGE,EAST GOLDWINS COIMBATORE -641014
3	Year of Construction	: New Building
4	Approximate cost of construction As per current rates	: Rs. 21,93,75,000.00
5	Purpose for which the building is	: Residential building

6 Area details of the building;

(1).BLOCK - 1 (UNIT 1 TO 4):

Ground floor	: 833.44 Sq.mt
First floor	: 735.62 Sq.mt
Second floor	: 175.24 Sq.mt
Total	**: 1744.30 Sq.mt**

Total : **1744.30 Sq.mt or 18775.49 Sq.ft**

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(2). BLOCK-2 (UNIT 5):

Ground floor : 199.10 Sq.mt
First floor : 204.04 Sq.mt
Second floor : 147.14 Sq.mt
Total : 550.28 Sq.mt

Total : 550.28Sq.mt or5923.16 Sq.ft

(3). BLOCK-3 (UNIT 6):

Ground floor : 186.16 Sq.mt
First floor : 181.38 Sq.mt
Second floor : 71.59 Sq.mt
Total : 439.13 Sq.mt

Total : 439.13 Sq.mt or 4726.75 Sq.ft

(4). BLOCK-4 (UNIT 7& 8):

Ground floor : 303.59 Sq.mt
First floor : 283.06 Sq.mt
Second floor : 111.77 Sq.mt
Total : 698.42 Sq.mt

Total : 698.42 Sq.mt or 7517.73 Sq.ft

(5). BLOCK-5(UNIT 9):

Ground floor : 174.72 Sq.mt
First floor : 184.94 Sq.mt
Second floor : 121.12Sq.mt
Total : 480.78 Sq.mt

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Total : **480.78 Sq.mt or 5175.07 Sq.ft**

(6). BLOCK-6 (UNIT 10 to 15):

Ground floor : 994.38 Sq.mt
First floor : 961.29 Sq.mt
Second floor : 306.72 Sq.mt
Total : **2262.39 Sq.mt**

Total : **2262.39 Sq.mt or 55703.99 Sq.ft**

(7). BLOCK-7 (UNIT 16 to 19):

Ground floor : 640.80 Sq.mt
First floor : 523.11 Sq.mt
Second floor : 248.11 Sq.mt
Total : **1412.02 Sq.mt**

Total : **1412.02 Sq.mt or 15198.86 Sq.ft**

(8). BLOCK- 8 (club house) :

Ground floor : 148.52 Sq.mt
First floor : 372.67 Sq.mt
Head room: 48.07 Sq.mt
Total : **1412.02 Sq.mt**
Electrical room : 19.29 Sq.mt

Net Total : **8127.80 Sq.mt or 87486.91 Sq.ft**

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7	Details of construction of the Building (Particulars of the Foundation, Soil, specification of the various parts under		
	(a) Basement Floor	:	PCC 1:5:10
	(b) Super structure	:	Brick Work in CM 1:6
	(c) Floor and roof are to be given	:	RCC Floor (M30 Grade) & Cement Plastering
8	No. of persons to be accommodated	:	150 Persons

Place: Coimbatore

Date: 17.06.2024

CHARTERED ENGINEER

G. Nirmal Chander ME (Structures) MIE
Chartered Engineer - M 57946
Structural Consultant
25, New Damu Nagar, Puliakulam Road,
Coimbatore - 641 037.

FORM-B

(Form of Certificate of structural soundness under sub-section (4) of Section 4 of the Tamilnadu Public Building (Licensing) Act, 1965 (Tamilnadu Act 13 of 1965) referred to in rule 4 of the Tamilnadu Public Building (Licensing) Rules 1966)

1. FOUNDATION

a) Depth below ground level : 2.5m.

b) Nature of soil met with at Foundation level : Hard Kankar.

(c) Pressure at foundation : 22T/m².

(d) Probable safe bearing capacity of The soil met with at foundation : 30T/m²

2 SUPER STRUCTURE:

(a) Maximum stress in the most critical Section of masonry and concrete : 4kg/cm² in Masonry 50kg/cm² in Concrete.

(b) Nature of masonry and concrete and Its safe permissible stress : Blockwork in CM 1:6 – 5kg/cm² and Mas Concrete – 60 kg/cm².

(c)

The building has been designed to take seismic forces and other loads as per relevant Indian Standards Codes.

Place: Coimbatore

Date: 26.03.2024

CHARTERED ENGINEER

G. Nirmal Chander ME (Structures) MIE
Chartered Engineer - M 57946
Structural Consultant
25, New Damu Nagar, Puliakulam Road,
Coimbatore - 641 037.

FORM-C

(Form of Certificate of structural soundness under sub-section (4) of Section 4 of the Tamilnadu Public Building (Licensing) Act, 1965 (Tamilnadu Act 1965) referred to in rule 4 of the Tamilnadu Public Building (Licensing) Rules 1966)

Location of the building, Door No., Street and Name of the place	Age of the building	Total Value of the building at the current rate	Short description of structure steel RCC framed Structures	Purpose for which the building is certified for use	The Period for which the building will be structurally soundness	No. of persons to be accommodated	Remarks
NIVASAN HOMES PRIVATE LIMITED SWARNAPURAA S.F.NO : 756/1B1D2, 758/3,759/3A,759/3B,760/1A,760/1B , 760/1C1,760/1C1,760/1D1,760/1D2 AT CIVIL,INDRA NAGAR, AERODROME PO, KALAPATTI VILLAGE,EAST GOLDWINS, COIMBATORE-641014.	New Building	Rs.38,17,12,500/	RCC Framed Structure	Residential Building	50 years	150 Persons	Nil

Place: Coimbatore

Date: 17.06.2024

CHARTERED ENGINEER

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Coimbatore - 641 037.

SEISMIC FORCE RESISTANCE CERTIFICATE

This is to certify that Residential and Consulting office building is to adopt the Seismic force resistance.

The seismic force and its design form is calculated under the following techniques explained below:

Reinforcement techniques:

The strength and stiffness of soil deposits can be increased by the installation of discrete inclusions consisting of structural element or of geomaterials such as gravel or crushed stone.

a) **Stone columns**

Dense columns of gravel or crushed stone are installed in the loose deposits using vibroflotation or other technique to increase the effective lateral stresses in the surrounding soil and it results additional improvement.

a) **Compaction piles**

Loose granular soils can be improved by the installation of displacement piles, usually prestressed concrete or timer piles. The shear, flexural and tensile strength of the piles also provide resistance to soil deformations.

Grouting

Grouts improve the soil by cementing the contacts of the particles and by filling the voids between particles with low compressibility material.

a) Permeation grouting: It involves the injection of low viscosity liquid grout into the voids of the soil without disturbing the soil structure.

a) Intrusion grouting: here the fluid grout is injected under pressure to cause controlled fracturing of the soil. Relatively viscous cement grouts are used here.

G.Wi

Mixing

Localized improvement of soil columns can be achieved by in situ mixing of the soil with cementitious material.

a) Soil Mixing: It describes a specific technique in which cementitious material is mechanically mixed into the soil using auger arrangements.

a) Jet grouting: The soil is mixed with cement gout injected horizontally under high pressure in the previously drilled bore hole. Injection nozzle is used here.

Drainage Techniques

The potential for ground failure can often be reduced by lowering the ground water table prior to shaking or by increasing the rate at which excess pore water pressure dissipates. The installation of stone columns introduces zones of dense, relatively high permeability material in which pore water pressure can be expected to remain nearly hydrostatic during shrinking.

Place: Coimbatore

Date: 17.06.2024

Signature of the Engineer

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SUMMARY

The basic element of seismic site characterization includes determination of dynamic characteristics such as maximum shear modulus, module reduction behavior and strain dependent damping behavior. Based on the seismic characterization, classification of site, site response analysis consisting local soil condition and soil – foundation structure interaction analysis for various structures are performed.

Shear wave velocity measured by seismic cross-hole tests can be used for determination of low strain dynamic soil properties. Seismic cross-hole test data also enables us to identify the presence of faults, fracture zones and weaker zones. However, this technique cannot be used for estimating the material damping of difference strata. For evaluation dynamic properties at large strain level and evaluation of strain-dependent damping, laboratory cyclic tests such as cyclic triaxial test shall be performed on undisturbed soil specimens.

Site effects particularly local ground response effect can be considered in terms of simplified procedures using site classification method and site amplification factors. For important projects site specified ground response analysis is recommended to arrive design ground motion parameters. One dimensional ground response analysis based on equivalent linear approach is commonly carried out using a computer program SHAKE 91. Among available site categorization schemes, Vs 30 scheme is the most widely used site classification procedure in modern practice.

SFSI effects are routinely ignored in practice, but it must be carried out by using appropriate SFSI modules either by direct approach or substructure approach. Soil liquefaction is the major hazard due to earth quake. Among several approaches available for characterization of loading and resistance proposed for liquefaction potential. Earthquake hazards including liquefaction hazards can be grouting techniques in the existing structure.

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FINITE ELEMENTS ANALYSIS OF EARTHQUAKE RESISTANT MULTI-STOREY FRAMES

Structures, which have some seismic resistant systems like, shear wall, ductile frames etc., are termed as earthquake resistant structures. The objective of design of earth quake resistant frames is to ensure that the structure possess at least a minimum strength to withstand minor earthquakes which occur frequently without damages resist moderate earthquakes without significant structural damage though some non-structural damage may occur, and aims that structures withstand a major earthquake without collapse.

As per IS:"1893 (Part I): 2002 (7) the total design lateral force is given by the expression.

V W where Ah is the horizontal acceleration spectrum and W the seismic weight of the building.

The design – base shear (Vb) shall be distributed along the height of the building as per the expression

$$Qi = Vb = \frac{Wihi2}{(Sum)\ wjhj\ 2}$$

$$j = i$$

Where, Qi is the design lateral force, Wi the seismic weight, hi the height measure from the base, I the floor considered and n the number of storey in the building.

Place: Coimbatore

Date: 26.03.2024

Signature of the Engineer

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DESCRIPTION OF SEWAGE TREATMENT PLANT FOR

PROPOSED CONSTRUCTION, COIMBATORE CORPORATION

Waste water let into the equalization tank

BIOLOGICAL TREATMENT

In this the sewage water passes through the specially designed. A rotary Bio contractor (R.B.C.) allows the sewerage maximum with the Biomass.

POST SEDIMENTATION TANK

From the biological tank water flows into the post sedimentation tanks where the sedimentation takes place. For the pose sedimentation tank the sludge is pumped into the sludge tank and the overflow is let into the setting tank. Overflow from settling tank is the treated water.

SLUDGE TANK

From the post sedimentation tank is pumped into the sludge tank.

TREATED WATER TANK

Treated water is collected in the treated water tank from the settling tank as the overflow.

ELECTRICAL POWER

AC Three phase 220 V –

Proposed for 8 cum per day waste water treatment.

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Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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