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ASSOCIATES

STABILITY CERTIFICATE

It is certified that the proposed construction at **M/s.Mount Galaxy Apartment No-340/1A & 2A1, Veerakeralam Village, Perur Taluk, Coimbatore** is designed to resist earthquake. Check has been made and found safe and I hereby certify that:

1. The minimum grade of concrete is **M-20 Grade.**

2. The design and analysis using the code of practice for plain and reinforced concrete as per IS 456, Design Loads as per **IS 875 (Part 1,2,3,5)** and Design of Earthquake resistant Structure as per **IS 1893, 1S 4326** are carried out.

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

R. PRAKASH M.E., (Structural)
LPA / SE / Gr-I / 19 / 05 / 044
GK ASSOCIATES
No : 603, 100 FEET ROAD, GANDHIPURAM
COIMBATORE - 641 012.
97503 40046

Stamp and Signature

Encl.: Structural Design Calculation

603, 100 Feet Road, Gandhipuram,
Coimbatore - 641 012, Tamilnadu, India.
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Mobie: 99442 11111
progettogk@gmail.com
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STATEMENT ACCOMPANYING FORM – "A"

S.NO	DESCRIPTION	DETAILS
1	Name of the Owner	KALPESH BAFNA RAMESHCHAND BAFNA
2	Door no of the building, location, (street no., ward no., name of the ie. Corporation, municipality/ Panchayat union/panchayat/ township/cantonment)	S.F.No:340/1A & 340/2A1,Veerakeralam Village,Perur Taluk, Coimbatore Corporation
3	Year of Construction	PROPOSED
4	Approximate cost of construction	3000 LAKHS
5	Purpose for which the building is	Residential Apartment Building
6	Total Area Of The Building	18566.28 Sqm
	Floor Name – Block A	**Area in (Sqm)**
	Stilt Floor	750.88
	First Floor	750.88
	Second Floor	750.88
	Third Floor	750.88
	Fourth Floor	750.88
	Fifth Floor	750.88
	Terrace Floor	40.92
	Total	**399.54 Sqm**
	Floor Name – Block B	**Area in (Sqm)**
	Stilt Floor	2385.80
	First Floor	2385.80
	Second Floor	2282.24
	Third Floor	2282.24
	Fourth Floor	2282.24
	Fifth Floor	2282.24
	Terrace Floor	119.52

G.K. ASSOCIATES OBE

7	**Total**	**18566.28 Sqm**
8	No of persons to be accommodated	800 persons (approximately)

G.K. ASSOCIATES CBE

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FORM- B

Form of certificate of structural soundness under subsection (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).

I certify that i have inspected the building mentioned in the statement and furnish below its salient features.

S.NO	DESCRIPTION	DETAILS
1	**FOUNDATION**	Isolated Footing
	a.) Depth below ground level	4.5 M
	b.) Nature of soil met with at foundation level	Hard
	c) Pressure of foundation	350 KN /m^2
	d.) Probable safe bearing capacity of The soil met with at foundation.	200 N/mm^2
2	**SUPER STRUCTURE**	
	a) Maximum stress in the most critical Section of masonry and concrete	Brick work in cm 60 KN/m^2.
	b) . Nature of masonry and concrete and It safe permissible stress	Concrete m20 mix 20 N/mm^2

The building has been designed to take seismic forces and other loads as per Indian standard codes.

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FORM – C

Form of certificate of structural soundness under sub – division (4) of section 4 of the Tamilnadu Public Building (Licensing) Act, 1965 (Tamilnadu Act 1965) referred to in rule 4 of the Tamil Nadu Public Building (Licensing) Rules 1966.

I have inspected the building specified in the statement below and I have satisfied myself that the building is structurally sound to be used as public building for the purpose noted in the statement. The structural soundness of the building has been verified by me with reference to Bureau of Indian standards loading standards 875 (latest version) and other relevant Indian standards code of practice.

STATEMENT ACCOMPANYING THE CERTIFICATE OF STRUCTURAL SOUNDNESS:

S.NO	DESCRIPTION	DETAILS
1	Name of the Owner	KALPESH BAFNA RAMESHCHAND BAFNA
2	Door no of the building, location, (street no., ward no., name of the ie. Corporation, municipality/ Panchayat union/panchayat/ township/cantonment)	S.F.No:340/1A & 340/2A1,Veerakeralam Village,Perur Taluk, Coimbatore Corporation
3	Year of Construction	PROPOSED
4	Total Value of the Building at the Current	3000 LAKHS
5	Short description & RCC framed of load bearing Masonry	Transfer path is from beam to column and column to footing.
6	Purpose for which the building certified for use	Residential Use
7	The period for which building will be structurally sound.	-
8	No of persons to be accommodated	800 persons (Approximately)
9	Remarks	Good

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SEISMIC FORCE RESISTANCE CERTIFICATE

This is to certify that the proposed Building that to be constructed 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 deposit can be increased by the installation of discrete inclusions consisting of structural element or of government such as gravel or crushed stone

a) **Stone Columns**

Dense columns of gravel or crushed stone are installed in the loose deposits using vibro flotation or other techniques to increase the effective lateral stress in the surrounding soil and its results additional improvement

b) **Compaction piles:**

Loose granular soils can be improved by the installation and displacement piles, usually pre stressed concrete or timber piles The shear, flexural and tensile strength of the piles also provide resistance to soil deformation

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
b) Instruction grouting: Here the fluid grout is injected under pressure to cause controlled fracturing of the soil Relatively viscous cement grouts are used here

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Mixing:

Localized improvements 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.
b) Jet Grouting: the soil is mixed with cement grout 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 at which excess core water pressure dissipates. The installation of stone columns introduced zones of dense, relatively high permeability material in which core water pressure can be expected to remain nearly hydrostatic during shrinking.

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SUMMARY:

The basic element of seismic site characterisation includes determination of dynamic characteristic such as maximum shear modulus, module reduction behaviour, and strain dependent damping behaviour. Based on the seismic characterisation, classification of site, site response analysis consisting local soil conditions and soil foundations and structure interaction analyses 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 as to identify the presence of faults, fracture zones and weaker zones, however these techniques cannot be used for estimating the material damping of different strata. For evaluation dynamic properties at large strain level and evaluation of strain depending damping laboratory cyclic tests such as cyclic tri axial tests shall be performed on undistributed soil specimens.

Site effects particularly local ground response effect can be considered in terms of simplified procedures using site classification methods and site amplification factors for improvement projects site specified ground response analysis is recommended to arrive design ground motion parameters. 1 dimensional ground response analysis based on equivalent linear approach is commonly carried out using a computer program SHAKE 91. Among available site categorization schemes Bs 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 models either by direct approach or substructure approach soil liquefaction is the major hazard due to earthquake. Among several approaches available for characterisation for loading and resistance proposed for liquefaction potential. Earthquake hazards including liquefaction hazards can be grouting techniques in the existing structure.



FINITE ELEMENTS ANALYSIS OF EARTHQUAKE RESISTANTMULTI – STOREY FRAMES:

Structures , which have some seismic resistant systems like shear wall , ductile frames et, are termed as earthquake resistant structures The objectives of design of earthquake 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 damages though some non – structural damage may occur, and aims that structures withstand a major earthquakes 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 (V_b) shall be distributed along the height of the building as per the expression

$$Q_i = V_b = \frac{w_i h_i^2}{\sum_{J=1} w_j h_i^2}$$

Where, Qi is the deign lateral force, I the seismic weight, hi the height measured from the base, I the floor considered and the number of storey in the building.



DESCRIPTION OF SEWAGE TREATMENT PLANT FOR PROPOSED BUILDING INSF NO :67/3E, SITE NO : 04,SRI KARVEE GARDEN, THUDIYALUR VILLAGE, COIMBATORE NORTH TALUK COIMBATORE DISTRICT.

Waste water let into the equalization tank.

BIOLIGICAL TREATMENT

In this the sewage water passes through the specially designed 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, from the post sedimentation tank the sludge is pumped into the sludge tank and the overflow is let into the setting tank over flow 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 setting tank as the overflow

ELECTRICAL POWER:

AC Three Phase 220V – 4KW

Proposed for 8cumec per day waste water treatment.

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DESIGN BASIS:

Total Number of persons	-	800 Nos.
Others	-	20 Nos.
Total	-	820 Nos.
Sullage waste generated by 100 persons	:	1200lits at the rate of 30 litres per day.
Designed B.O.D	-	30 PPM.
Hours of operation	-	12Hours / Day.

The treatment water after RBC process attained the quality as stipulated by the pollution control board for the discharging into surface water of land for irrigation.

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RAIN WATER HARVESTING REPORT:

This is to certify that the existingbuilding

The rain water which is collected from roof top is taken safely to the ground pits through pvc pipes. Each block contains five percolation pits of size 1'0" *1'0" *10'0".

The water is taken to percolation pits by 2" pvc pipes,

PERCOLATION PIT

Percolation pit consists of size 1'0" *1'0" *10'0" which is filled by broken brick jelly and top layer is filled by river sand.

The water percolates through the percolation pits gets filtered by river sand and brick jelly and water enter into earth and increase the water level.

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Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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