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STABILITY CERTIFICATE

(To be furnished while filing application for registration of building)

The detailed Engineering and structure design of the purposed building comprising of 80 villas Ground + 2 floors with clubhouse Ground + 3 floors and swimming pool comprised in S.No164/2b, 165 & 167/2, Veerakeralam village, Perur taluk, Coimbatore district has been done by us based on the report of geotechnical investigation (soil test) done by PRASAD ARMSTRONG YEN GEC (P) Ltd, 821 (Old No. 439/4) Poonamallee High Road, Arumbakkam, Chennai. and considering the functional requirement of the building.

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

3. We further certify that

(I) The minimum grade of concrete is M25

(II) The design and analysis has been done using the code of practice and plain and reinforced concrete as per IS456 design load as per IS Code No IS 875 part I - V and design of earthquake resistant structure as Per Code No. IS 1893-2016.

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

Stamp and Signature

P.JEGATHEESAN, M.Tech (Struct.)
Registered Structural Engineer
DTCP Regn. No.CGLDIST/SE/Gr-i/2019/07/020
Valid upto 10-10-2029
New No.31, Old No.14, Besant Avenue,
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Annexure – XIV

[See rule 51 (3)]

Form 1

Structural Design Basis Report

(1) This report to accompany the application for Building Developments

Part1	General Data		
S.No.	Description	Information	Notes
1.	Site Address	S.f.no 164/2B, 165, 167/2, Ward – 40, Veerakeralam village, Perur taluk, Coimbatore district, West zone, Coimbatore division.	
2.	Name of Owner/Represented By	M/s Radiance Realty Developers	
3.	Name of Registered Developer along with the Registration Number	RD/004/2022	
4.	Name of Registered Architect/Engineer along with the Registration Number	Mr.AIYADURAI VENKATAKRISHNAN CA/1983/07687	
5.	Name of Registered Structural engineer along with the Registration Number	Mr. P. JEGATHEESAN DTCP REGISTRATION NO: CGLRGN/SE/GR-1/2019/07/020	
6.	Use of the building	Residential Use	
7.	Number of basements below Ground level	NA	
8.	Type of structure Load bearing walls	R.C.C. framed Structure	

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	R.C.C. frame R.C.C. frame and Shear Walls Steel frame		
9.	Soil data Type of soil Design safe bearing capacity	 Medium 20 tons/m^2	IS:1893 C1.6.3.5.2 IS: 1904 IS: 1892 IS: 2131 IS: 2720
10.	Dead loads (unit weight adopted) · Earth · Water · Brick masonry · Plain cement concrete · Reinforced cement concrete · Floor finish · Other fill materials	 18kN/m^3 10kN/m^3 20kN/m^3 24kN/m^3 25kN/m^3 1.20kN/sq.m (50mmx24) Filling Depthx12 kN/m^3	IS: 875 Part 1
11.	Imposed (live) loads Floor loads Roof loads	 2 kN/m^2 3 kN/m^2	IS: 875 Part 2
12.	Cyclone/Wind · Speed · Design pressure intensity	 33 780 N/m^2	IS: 875 Part 3

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13.	Seismic zone	III	IS: 1893 (2002)
14.	Importance factor	1.2	IS:1893(2002) Table 6
15.	Seismic zone factor (Z)	0.16	IS:1893 Table 2
16.	Response reduction factor	3	IS:1893 Table 7
17.	Fundamental natural period – approx.	Time Period Varies for each unit as per IS 1893	IS:1893 C1.7.6
18.	Design horizontal acceleration spectrum value, (Ah)	Varies As per time period	IS: 1893 C1.6.4.2
19.	Expansion/Separation Joints	No	
20.	Building is regular/Irregular	Regular	IS 1893

Enclose detailed drawings drawn to scale for each floor

In case terrace garden is provided, indicate additional fill load and live load along with the detailed drawings drawn to scale.

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Part 2	Load bearing masonry buildings		
Sl.No.	Description	Information	Notes
1.	Building category	NA	IS: 4326 C1.7 Read with IS:1893 Zone / Bldg. — II, III, IV, V Ordinary — B, C, D, E Important — C, D, E, E
2.	Basement Provided	NA	
3.	Number of floors including Ground Floor (all floors including stepped floors in hill slopes)	NA	
4.	Type of wall masonry	NA	
5.	Type and mix of Mortar	NA	IS: 4326 C1.8.1.2
6.	Re: size and position of openings (See note No.[i]) · Minimum distance (b5) · Ratio (b1+b2+b3)/11 or (b6+b7)/12 · Minimum pier width between consequent openings (b4) · Vertical distance (h3) · Ratio of wall height to thickness 4Ratio of wall length between cross wall to thickness	NA	IS: 4326 Table 4, Fig.7

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7.	Horizontal seismic band - at plinth level - at window sill level - at lintel level - at ceiling level - at eave level of sloping roof - at top of gable walls - at top of ridge walls	P ☐ ☐ ☐ ☐ ☐ ☐ ☐	IP ☐ ☐ ☐ ☐ ☐ ☐ ☐	NA ☐ ☑ ☑ ☑ ☑ ☑ ☑	(see note No.2) IS:4326 C1 8.4.6 IS: 4326 C1 8.3 IS: 4326 C1 8.4.2 IS: 4326 C1 8.4.3 IS: 4326 C1 8.4.3 IS: 4326 C1 8.4.3 IS: 4326 Cl 8.4.4
8.	Vertical reinforcing bar at corners and T junction of walls at jambs of doors and window openings	☐ ☐	☐ ☐	☑ ☑	IS: 4326 C1 8.4.8. IS: 4326 C1 8.4.9
9.	Integration of prefab roofing/flooring elements through reinforced concrete screed.	☐	☐	☑	IS:4326 C1 9.1.4
10	Horizontal bracings in pitched truss in horizontal plane at the level of ties in the slopes of pitched roofs	☐ ☐	☐ ☐	☑ ☑	

Notes: (i) Information in Item 6 should be given on separate A4 sheets for all walls with large number of openings

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(ii) IP indicated "Information Provided"

IP indicates "Information to be provided"

NA indicates "Not Applicable"

Tick mark one box

Part 3	Reinforced Concrete Framed Buildings		
Sl. No.	Description	Information	Notes
1.	Type of building · Regular frames · Regular frames with Shear Walls · Irregular frames · Irregular frames with Shear Walls · Soft storey	Regular framed Structure	IS: 1893 C1 7.1
2.	Number of basements	NA	
3.	Number of floors including ground floor	G+2+ROOF	
4.	Horizontal floor system · Beams and slabs · Waffles · Ribbed floor · Flat slab with drops · Flat plate without drops	Beams and slabs	

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5.	Soil data - Type of soil Recommended type of foundation -Independent footings -Raft -Piles - Recommended bearing capacity of Soil - Recommended type, length, Diameter and load capacity of piles - Depth of water table - Chemical analysis of ground water - Chemical analysis of soil	Medium Independent footings (300 - 750mm depth) 20 tons/m^2	IS: 1498
6.	Foundations Depth below ground level Type Independent Interconnected Raft Piles	Independent	
7.	System of interconnecting foundations Plinth beams Foundation beams	Tie Beams	IS: 1893 C1 7.12.1
8.	Grades if concrete used in different parts of building	M25	
9.	Method of analysis used	3D Analysis	

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10	Computer software used	ETABS	
11.	Torsion included	Building doesn't have torsion	IS: 1893 Cl 7.9
12.	Base shear a. Based on approximate fundamental period b. Based on dynamic analysis c. Ratio of a/b	As per Code for buildings with infill	IS: 1893 Cl. 7.5.3
14.	The Column of soft ground storey specially designed.	No Soft Story	IS: 1893 Cl.7.10
15.	Clear minimum cover provided in Footing Column Beams Slabs Walls	50mm 40mm SS Beam 40mm Cont Beam 30mm 25mm 30mm	IS: 456 Cl. 26.4
16.	Ductile detailing of RC frame · Type of reinforcement used · Minimum dimension of Beams · Minimum dimension of Columns	HighStrength Deformed Steel Bars 200x300mm	IS: 456 Cl. 5.6 IS: 13920 Cl.6.1 IS: 13920 Cl.7.1.2 IS: 456 Cl.26.5.1(a) IS: 13920 Cl.6.2.1

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—	· Minimum percentage of reinforcement of beams at any cross section · Maximum percentage of reinforcement at any section of beam · Spacing of transverse reinforcement in 2-d length of beams near the ends · Ratio of capacity of beams in shear to capacity of beams in flexure · Maximum percentage of reinforcement in column · Confining stirrups near ends of columns and in beam-column Joints Diameter Spacing · Ratio of shear capacity of columns to maximum seismic Shear in the storey.	200x375mm 0.2% Min. 4% Max. 100mm 1.2 4% T10-100 1.2	IS:456 Cl.26.5.1.1(b) IS: 13920 Cl.6.2.2 — IS: 13920 Cl.6.3.5 IS: 456 Cl.26.5.3.1 IS: 13920 Cl. 7.4
17.	Does the features require clearance by SDRP Example: High rise building Prefab building Building in hazard prone areas	NA	

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Foundation

i. In case raft foundation has been adopted, indicate K value used for analysis of the raft.
We adopted K value based on the value suggested by the soil consultant

ii. Incase pile foundations have been used, give fulll particulars of the piles, type, dia, length, capacity

iii. In case of high water table, indicate system of countering water pressure, and indicate the existing water table, and that assumed to design foundations.

Idealization for Earthquake analysis

i. In case of composite system of shear walls and rigid frames, give distribution of base shear in the two systems on the basis of analysis, and that used for design of each system

ii. Indicate the idealization of frames and shear walls adopted in the analysis with the help of sketches.

iii. Submit framing plans of each floor

iv. In case of basements, indicate the system used to contain earth pressures.

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Part 4	Buildings in structural steel		
Sl. No.	Description	Information	Notes
1.	Adopted method of design	o Simple o Semi-rigid o Rigid	IS:800 Cl 3.4.4 IS:800 Cl.3.4.5 IS:800 Cl.3.5.6
2.	Design based on	o Elastic analysis o Plastic analysis	IS: 800 Section-9 SP;6 (6)
3.	Floor construction	o Composite o Non composite o Boarded	
4.	Roof construction	o Composite o Non composite o Metal o Any other	
5.	Horizontal force resisting system adopted	Frames Braced Frames Frames & shear walls	Note: Seismic force As per IS:1893 Would depend on system
6.	Slenderness ratios Maintained	Members defined in Table 3.1, IS:800	IS 800; Cl.3.7
7.	Member deflection limited to	Beams, Rafters, Crane Girders, Purlins Top of columns	IS:800 Cl.3.13
8.	Structural members	o Encased in concrete Not encased	IS: 800 Section-10

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9.	Proposed material	o General weldable o High strength o Cold formed o Tubular	IS: 2062 IS: 8500 IS: 801, 811 IS: 806
10.	Minimum metal thickness Specified for corrosion protection	o Hot rolled sections o Cold formed sections o Tubes	IS: 800, Cl.3.8 Cl.3.8.1 to Cl.3.8.4 Cl.3.8.5
11.	Structural connections	o Rivets o CT Bolts o S H F G Bolts o Black Bolts o Welding field Shop (Specify welding type proposed) Composite	IS: 800, Section-8 IS: 1929, 2155, 1149 IS 6639, 1367 IS 3757, 4000 IS: 1363, 1367 IS: 816, 814,1395, 7280, 3613, 6419, 6560, 813, 9595
12.	Minimum Fire rating proposed, with method	Rating... hours Method proposed. -In tumescent painting -Spraying -Quilting -Fire retardant boarding	

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Part-5

Any special weakness in the building making it vulnerable for stability related failure and the precaution to be taken during execution/completion and finishing to be indicated.

Part-6

Recommendations of structural Engineer with respect to special requirements needed with respect to structural safety and stability to be taken note of by competent authority feature like incorporation of swimming pool, heavy load on roof, prefabricated structure or any other hazardous features should be included.

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PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that **Thiru. P.JEGATHEESAN** has enrolled as **Structural Engineer Grade-I (SE)** with Department of Town and Country Planning who has the qualification of **M.Tech.,(Structural Engineering)** and experience in the relevant field for more than **20 years**.

He/She has been given the Registration No. **CGLDIST/SE/Gr-I/2019/07/020 Renewed** on **17.10.2024**. He/She shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules, 2019 approved vide G.O.(Ms) No.18 MAWS (MA1) Dept. Dated 04.02.2019.

This Registration is valid upto **16.10.2029**.

Assistant Director,
Chengalpattu District





our services doesn't just end there

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Zoning & Land Use Analysis

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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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