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KAARVENS

FORM OF CERTIFICATE OF STABILITY

FORM - A

1. Location, Street, Ward, Village Survey No - T.S.Ward No: 44, Block No.03, T.S.No. 37/1, 37/2B, KOMARAPALAYAM VILLAGE, WARD-074, West Zone

   Name of the Corporation / Municipality / Punchayat - Coimbatore City Municipal Corporation

2. Year of Construction - 2025

3. Approximate cost of construction as per current rate - Rs.26.02 crores

4. Approximate cost of construction per Sq.ft - Rs.2000/sqft

5. No of Storeys -

S.NO	DESCRIPTION	GROUND FLOOR (sq.m)	FIRST FLOOR (sq.m)	SECOND FLOOR (sq.m)	BLOCK AREA (sq.m)	UNIT	TOTAL AREA (sq.m)
1	Type 1	323.86	337.28	233.55	894.69	1	894.69
2	Type 1A	133.99	109.06	70.95	314.00	2	628.00
3	Type 2	98.98	98.98	66.84	264.8	7	1853.6
4	Type 3	99.02	99.02	56.81	254.85	13	3313.05
5	Type 3A	90.98	90.98	53.85	235.81	1	235.81
6	Type 3B	96.05	96.05	55.83	247.93	1	247.93
7	Type 3C	94.93	94.93	52.15	242.01	1	242.01
8	Type 4	88.39	88.39	52.71	229.49	1	229.49
9	Type 5	195.2	165.45	106.52	467.17	1	467.17
10	Type 5A	133	142.38	100.4	375.78	1	378.78

KAARVENS
STRUCTURAL CONSULTANCY
41, BR Nagar, 3rd Street,
Kothari layout,
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11	Type 6	112.82	112.82	84.25	309.89	1	309.89
12	Type 7	95.33	95.33	67.17	258.83	1	258.83
13	Type 8	170.66	158.8	82.43	411.89	2	823.78
14	Type 9	155.01	144.72	83.78	383.51	1	383.51
15	Type 10	139.58	115.02	62.97	317.57	1	317.57
16	Type 11	110.9	115.37	65.21	284.5	1	284.5
17	Type 12	236.03	184.46	93.43	513.92	1	513.92
18	Type 13	162.49	162.49	24.69	350.15	1	350.15
19	Type 14	134	134	93.67	361.67	1	361.67
				Grand Total			**12091.35**

6. Purpose for which the building is proposed to be used - Row housing

7. Purpose of which the building has hitherto been used - Row housing

8. Area details of the building -

Total area - **12091.35 sq.m**

9. Details of construction of the building -

(Particulars of the foundation soil, specification of the various part under)

a. Foundation - M20 R.C.C Column, Footing & Plinth Beam

b. Super Structure - Brick Work, R.C.C

c. Roof - Vitrified Tiles Flooring & Roofing.

10. Structural Specification -

A. Framed structure with reinforced Cement Concrete Column, Beams and Slabs

i. Maximum span of the beam 6 meters

ii. Maximum unsupported length of the Columns 3.2 meters

iii. Minimum size of the column 200 X 300 mm

iv. Minimum size of the beam 200 X 300 mm

B. Design load on the structure

Villa

i. Live load at the floor level Residential Blocks - 2 kN/Sq.m

ii. Live load at the floor level staircase area and corridors - 3 kN/Sq.m

iii. Live load at terrace floor - 1.5 kN/Sq.m

C. Dead loads assumed other than self weight

i. Floor Finishes - 1.5 kN/Sq.m

ii. Floor Partitions - 1 kN/Sq.m

D. Other services loads as per actual

11. Number of persons to be accommodated - Around 250

Er.S.K.Arun Kamaraj M.E.(Struct.),MBA.,MIE.,
Chartered Structural Engineer,
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Date: 12.04.24

Signature of the Engineer

FORM - B

From of sound of structural soundness under sub section of (4) of the section 4 of the madras public building Licensing Act - 1965 reffered in rule 4 of the Madras Public Building Licensing Rule (1966)

Since the Building is a proposed one this certificate is not issued

Place : Coimbatore

Date :12.04.24

S. K. Arun Kamaraj

Er.S.K.Arun Kamaraj M.E.(Struct.),MBA.,MIE.,
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Signature of the Engineer

STATEMENT TO BE ACCOMPANY THE CERTIFICATE OF THE STRUCTURAL SOUNDNESS

1. Location Building - T.S.Ward No: 44, Block No.03, T.S.No. 37/1, 37/2B, KOMARAPALAYAM VILLAGE, WARD-074, West Zone

2. Age of the Building - N/A

3. Approximate cost of construction as per current rate - Rs.26.02 crores

4. No of Storeys -

S.NO	DESCRIPTION	NO OF FLOORS
1.	Type 1	GROUND + 2 FLOORS
2	Type 1A	GROUND + 2 FLOORS
3	Type 2	GROUND + 2 FLOORS
4	Type 3	GROUND + 2 FLOORS
5	Type 3A	GROUND + 2 FLOORS
6	Type 3B	GROUND + 2 FLOORS
7	Type 3C	GROUND + 2 FLOORS
8	Type 4	GROUND + 2 FLOORS
9	Type 5	GROUND + 2 FLOORS
10	Type 5A	GROUND + 2 FLOORS
11	Type 6	GROUND + 2 FLOORS
12	Type 7	GROUND + 2 FLOORS
13	Type 8	GROUND + 2 FLOORS
14	Type 9	GROUND + 2 FLOORS
15	Type 10	GROUND + 2 FLOORS
16	Type 11	GROUND + 2 FLOORS
17	Type 12	GROUND + 2 FLOORS
18	Type 13	GROUND + 2 FLOORS
19	Type 14	GROUND + 2 FLOORS

5.	Purpose of the building is certified for use	-	Row housing
6.	Short description of the structures - RCC framed or Load bearing masonary	-	RCC framed structure
7.	Period for which the building will be structurally sound	-	50 Years
8.	Number of persons to be accomdated	-	Around 250
9.	Remarks	-	Good

Date : 12.04.24

Signature of the Engineer

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Declaration

I **S.K.Arun Kamraj, Structural Engineer,** at **Kaarvens Structural Consultancy, 41, BR Nagar 3rd Street, Kothari Layout, Ramanathapuram, Coimbatore District - 641005,** I hereby declare that I possess to qualification and experience statisfied in the table to rule - 11 of the madras public building (Licensing rule 1985) for issuing certificate of structural soundness of the building covered by the certificate.

Signature of the Engineer

Er.S.K.Arun Kamaraj M.E.(Struct.),MBA.,MIE.,
Chartered Structural Engineer,
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Not required for this project

FORM - C

(From of certificate of structural soundness under sub section of 4 of the Tamil Nadu Public Building (Licensing Act - 1965) referred in the rule of Tamil Nadu Public Building (Licensing) Rule 1966)

I hereby certify that I have inspected the building mentioned in the statement and furnish it below Salient Technical features.

1. Foundation

1.	Depth of the foundation from E.G.L	-	2.50 Meters
2	Nature of the soil met with at foundation level	-	Weathered Rock
3.	Pressure at the foundation	-	250 kN/Sq.m
4.	Safe bearing capacity of the building	-	261 kN/Sq.m

2. Super Structure

1.	Nature of the masonry and concrete and its safe Permissible stress	-	R.C.C Framed Structure R.C.C M20 Grade of Concrete

The Structural soundness of the building has been verified by me with reference to ISI Loading Standards 875 (Latest) version and other relevant Indian standards and code of practice and I declare that the building is structurally sound to be used as public building for the purpose noted in the statement.

S. K. Arun Kamaraj

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PLACE : Coimbatore

DATE : 12.04.24

Signature of the Engineer

CERTIFICATE REGARDING EFFULENT DISCHARGE FOR THE PROPOSED CONSTRUCTION OF ROW HOUSING PROJECT IN VILLAGE SURVERY NO

Calculation of Water Supply:

Data taken to account for the calculations are as per guidelines given in the manual on the water supply published by the Ministry of works housing, New Delhi.

Industrial

Population (Assumed) - 250

Therefore population - 250

Total requirement of water supply/head/day in litres as as per IS 1172

For Residential water requirement - 150/litre/head/day

For Gardening water requirement - 500/lit/day

Total requirement of water - 250 persons * 150 lit + 500 lit/day = 38000 lit/day

As per IS 1172, from the required water supply the assumptions are as follows:

For drinking purpose - 5/lit/head/day

Drinking water for the total number of persons - 250 persons * 150 lit = 1250 lit/day

Therefore, water other than drinking purpose is

38000 lit - 1250 lit = 36750 lit/day

As per IS 1172, for WC flushing system, the water consumption per day is assumed as 45 lit per persons

Therefor for 250 persons water consumed is 250 * 45 = 11250 lit / day

Water taken for treatment plant = 36750 - 11250 = 25500 lit /day

As explained above 11250 lit of effluent is connected with septic tank and treated. The treated water is allowed to the dispersion trenched provided in the site.

The above water will be soaked in the earth beneath the applicant's area itself. No quantity of water will be connected to the Municipal drainage. Therefore, no amount of sewage water will be expelled from the site.

25500 lit of the effluent from the gardening, washing etc are taken to the treatment plant, where it is treated and the treated water is whole used for gardening and air cooler plant Etc.

As per the above details, I Certify that the treatment plant proposed within the site is more than sufficient for treating of waste water produced. And the septic tank and dispersion trenches provided will be sufficient for treatment of sewage water and soaking of the treated effluent.

S.K. Arun Kamaraj

Signature of the Engineer

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