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DIGITALLY VERIFIED RECORD

HAYDANS ENGINEERS
(Structural Design Consultant)

A.SENTHIL KUMAR, B.Tech (Civil), M.Tech (Strcut), M.SC (REV), FIV, MIE, C.Engg
Registered Structural Engineer Grade 1(CMDA, Chennai Corporation & DTCP)
34AB Wealth Tax Valuer & IBBI Registered Valuer
District Collectorate Panel Engineer (Chennai, Thiruvallur, Chengalpattu & Kanchipuram)

Date: 14.08.2025

STABILITY CERTIFICATE

The detailed engineering and structure design of the proposed building comprising of Stilt Floor+ 4 Floors + 5thFloor (Part) at Plot No.62 and 63, 14th Street, Balaji Nagar, Kubera Nagar Extension, Madipakkam, Chennai – 600091, Survey No. 135/20 and 135/21 has been done by me/us based on the report of geotechnical investigation (soil test) done by QUALY CARE CIVIL RESEARCH CENTRE PRIVATE LIMITED Report No. 3159 Dated 12/06/2024 and considering the functional requirement of the building.

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

3. I further certify that:

(i) The minimum grade of concrete is M25

(ii) The design and analysis has been done using the code of practice for plain and reinforced concrete as per IS Code: 456, design loads as per IS Code: 800 and Design of earth quake resistant structure as per IS Code: 13920

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

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CMDA, CHENNAI CORPORATION & DTCP APPROVED
STRCTURAL ENGINEER GRADE 1

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Reg.No.: SE/GR-1/2020/02/254

STATEMENT ACCOMPANYING FORM – A

1	Owner of the Building	: M/s. COST PLUS CONSTRUCTIONS Pvt Ltd.
2	Location (Street Name, Ward No, Name of place corporation, Municipality, Panchayat, Panchayat Union, Township, Cantonment)	: Plot No: 62 & 63, 14th Street, Kuberan Nagar Extn, Madipakkam Village, Sholinganallur Taluk, Chennai District – 600091.
3	Year of Construction	: The Proposed Construction at Stilt + 5 Floors
4	Approximate cost of Construction	: 4.70 Crore
5	Purpose of wish the building is be used for / purpose to be used	: RESIDENTIAL BUILDING
6	Purpose for wish the building has been structure used	: AS ABOVE
7	Details of construction of the building (particulars) of the foundation soil, specification of the	
8	various parts under	
	a) Foundation	: PILE FOUNDATION depth of 8 m
	b) Basement	: Brick Work in Cement Mortar
	c) Superstructure	: Brick Work in Cement with Cement Plastered
	d) Floor and Roof (are given)	: **Flooring:** All Floors – RCC Flooring **Roof** All Floors – RCC
9	Period for which license is required	: New Construction
10	Number of person to be accommodated	: 100
11	Area of the Building	: 18604 Sq.ft

Ref. Annexure to this
Place : Chennai
Dated : 08.07.2024

SIGNATURE OF THE ENGINEER

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Form – B

(Form of Certificate of Structural under Sub-section (4) of section (4) of Madras Public Buildings (Licensing) Act 1965 (Tamil Nadu Act 13 of 1965 referred to in rule 4 of the Tamil Nadu public buildings (Licensing) Rules 1988).

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

1. Foundation

I	Depth below Ground Level	:	8 m below NGL
ii	Nature of Soil met with at foundation level (Pile)	:	Soft Dense Rock
iii	Safe Uplift capacity of the pile	:	191.1 KN
iv	the Safe bearing capacity of pile	:	339 KN

2. Superstructure

i	Maximum Stress in the most critical section of masonry and concrete	:	Masonry – 5.5 N/mm^2 Concrete – 30 N/mm^2
ii	Nature of Masonry and Concrete and its safe permissible stress	:	Masonry – 5.5 N/mm^2 Concrete – 30 N/mm^2

This is certified that the building will be safe as per the detailed plan enclosed.

Place : Chennai

Dated : 08.07.2024

SIGNATURE OF THE ENGINEER

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STRUCTURAL SOUNDNESS CERTIFICATE RELATING TO COMMERCIAL BUILDING

FORM – C

(Form of Certificate of Structural under Sub-section (4) of section (4) of Madras Public Buildings (Licensing) Act 1965 (Tamil Nadu Act 13 of 1965 referred to in rule 4 of the Tamil Nadu public buildings (Licensing) Rules 1988). Since the building is a proposed one the certificate in not issued.

STATEMENT ACCOMPANYING THE CERTIFICATE OF STRUCTURAL SOUNDNESS

Location of the Building (Door No., Street Number and name of place	Type of the building	Purpose for which the building certified for use	The periodthe building will be structural lysound	No. of Person accommodated	Remarks
1	2	3	4	5	6
Plot No: 62 & 63,14th Street, Kuberan Nagar Extn, Madipakkam Village, Sholinganallur Taluk, Chennai District – 600091. Comprised IN T.S.No:135/20 & 135/21 , Greater Chennai Corporation, Zone-14, Division-Chennai City South	The proposed construction at Stilt + 5 Floors	Residential Building	----- --	100	

Place : Chennai

Dated : 08.07.2024

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Annexure – XIV

[See rule 51 (3)]

Form 1
Structural Design Basic Report

This report to accompany the application for Building Development

Part 1	**General notes**		
S No	**Description**	**Information**	**Notes**
1	Site Address	PROPOSED NEW CONSTRUCTION OF BUILDING S.NO. 135/2, 135/20 & 135/21, 14TH STREET, KUBERAN NAGAR EXTN., MADIPAKKAM VILLAGE, SHOLINGANALLUR TALUK, CHENNAI DISTRICT-600091	
2	Name of the owner	COST PLUS CONSTRUCTIONS PVT LTD	
3	Name of the Registered Developer along with the Registered Number	NA	
4	Name of Registered Architect / Engineer along with the Registration Number	NA	
5	Name of Registered Structural Engineer along with the Registration	A.SENTHIL KUMAR	REGISTRATION NO:SE/GR-1/2020/02/254
6	Use of the building	Residential Building	
7	Number of Stories above ground level(including storey's to be added later , if any)	S+5	
8	Number of basement below ground level	NIL	
9	Types of structure Load bearing walls R .C.C .frame R.C.C. frame and Shear Walls Steel frame	RCC Frame Structure	

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10	Soil Data Type of soil Design Safe Bearing Capacity	8.0m Depth Pile Foundation Soil- Soft Dense Rock Safe Bearing Capacity of Pile – 339.9kN	S:1893 Cl.6.3.5.2 IS:1904 IS:1892 IS:2131 IS:2720 IS:2911-(2010)
11	Dead loads (unit weight adopted) • Earth • Water • Brick masonry • Plain cement concrete • Reinforced cement concrete • Floor finish • Other fill materials	 18 KN/m^3 10 KN/m^3 20 KN/m^3 24 KN/m^3 25 KN/m^3 1 KN/m^2	IS:875 PART 1
12	Imposed (live) loads • Floor loads • Roof loads	 NA 0.75 KN/m^3	IS:875 PART 2
13	Cyclone / Wind • Speed • Design pressure intensity	 50 m/sec 1.5 KN/m^2	IS:875 PART 3
14	Seismic zone	III	IS :1893 (2002)
15	Importance factor	1	IS :1893 (2002) Table 6
16	Seismic Zone Factor (Z)	0.16	IS :1893 Table 2
17	Responses Reduction Factor	3.0	IS :1893 Table 7
18	Fundamental Natural Period - Approx.	0.542	IS :1893 C 1.7.6
19	Design horizontal acceleration spectrum value (Ah)	0.050	IS :1893 C 1.6.4.2
20	Expansion / Separation Joints	NA	
21	Building Is Regular/ Irregular	Regular	IS :1893

- ❖ Enclose details drawings drawing to the scale for the each floor.
- ❖ In case terrace garden is provided, indicate additional fill load &n live load along with the details drawings drawing to scale.

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Part 2	Load bearing masonry building (NOT APPLICABLE)		
S No	**Description**	**Information**	**Notes**
1	Building Category	Residential Building	IS :4326 Cl.7 IS:1893 Zone Bldg II III IV V Ordinary B C DE Important C DE E
2	Basement provided	NA	
3	Number of floor including ground floor (all floors including stepped floor in the hill slopes)	S+5	
4	Type of wall masonry	SHEAR WALL	
5	Type and mix of Mortar	M30	IS :4326 Cl.8.1.2
6	Re: size and the position floor opening (see note No.[i]) • Minimum distance (b5) • Ratio (b1+b2+b3)/1 or (b6+b7)/1 • Minimum pier width between consequent opening (b4) • Ratio of the wall height of thickness 4 ratio of wall length between cross wall of thickness		IS :4326 Table 4, Fig 7
7	Horizontal seismic band • at plinth level • at window sill level • at lintel level • at ceiling level • at eave level of the sloping roof • at the top of gable walls • at the top of ridge walls	P IP NA ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	(See note No.2) IS:4326 Cl.8.4.6 IS:4326 Cl.8.3 IS:4326 Cl.8.4.2 IS:4326 Cl.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 opening	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	IS:4326 Cl.8.4.8 IS:4326 Cl.8.4.9

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9	Integration of prefab roofing / flooring elements through reinforced concrete screed	☐ ☐ ☐	IS:4326 Cl.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
(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 (Only For Foundation)		
S No	**Description**	**Information**	**Notes**
1	Types of building • Regular Frames • Regular Frames With Shear Walls • Irregular Frames • Irregular Frames With Shear Walls • Softy	REGULAR FRAMES	IS :1893 Cl.7.1
2	Number of basements		
3	Number of floors including ground floor	S+5	
4	Horizontal Floor system • Beams and slabs • Waffles • Ribbed floor • Flat slab with drops • Flat plate without drop	Beams and slabs	
5	Soil data • Type of soil • Recommended types of foundation ➢ independent footings ➢ Raft	8.0m Depth Pile foundation Soil- Soft Dense Rock	IS:1498

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	➢ Pile • Recommended bearing capacity of Soil	Safe Bearing Capacity of Pile- **339.9kN**	
	• Recommended type, length, diameter and load capacity of piles • Depth of water Tables • Chemical analysis of ground water • Chemical analysis of soil	450mm dia, 8m length, Safe Bearing Capacity of Pile – **339.9kN** Depth - 3.2m, pH, Chlorides & Sulphates, Soft Dense Rock	
6	Foundations Depth below ground level Type Independent Interconnected Raft Piles	NA Pile – 8m	
7	System of interconnecting foundations Plinth beams Foundation beam	Plinth beams	IS:1893 Cl.7.12.1
8	Grades if concrete used in different parts of building	M30	
9	Method of analysis used		
10	Computer software used	STAAD Pro	
11	Torsion include	Yes	IS:1893 Cl.7.9
12	Base shear a. Based on approximate fundamental period b. Based on dynamic analysis c. Ratio of a/b	NA	IS : 1893 Cl.7.5.3
13	Distribution of seismic forces along the height of the building	NA	IS : 1893 Cl. 7.7 (Provide sketch)
14	The column of soft ground storey specially designed	NA	IS : 1893 Cl. 7.10
15	Clear minimum cover provided in Footing Column Beams Slabs Walls	 50 mm 40 mm 25 mm	IS:456 Cl. 26.4
16	Ductile detailing of RC frame • Types of reinforcement used	Fe550	IS: 456 Cl.5.6

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	• Minimum dimension of beams • Minimum dimension of column • Minimum percentage of reinforcement of beams at any cross section • Maximum percentage of reinforcement at any section beam • Spacing of transverses reinforcement in 2-d length of beams near in ends Ratio of capacity of beams in shear to capacity of beams in flexure • Minimum percentage of reinforcement in column • Confining stirrups near ends of columns and in beam –column joins Diameter Spacing • Ratio of Shear capacity of columns to maximum seismic shear in the Story	Beam - 450 * 230 (mm) Column – 600 * 300 (mm) 0.8% NA	IS: 13920 Cl.6.1 IS: 13920 Cl.7.1.2 IS: 456 Cl.26.5.1(a) IS: 13920 Cl.6.2.1 IS:456 Cl.26.5.1.1 (b) IS:13920 Cl.6.2.2 IS:456 Cl.26.5.3.1 IS:13920 Cl.7.4
17	Does the features required 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.

II. Encase pile foundations have been used; give full particulars of the piles, type, diameter, length, capacity.

Existing

III. In case of high water table, Indicates system of countering water pressure & indicates the existing water table & that assumed to the design of foundation

Idealization for Earthquake analysis

I. In case of composite system of shear walls and rigid frames, give distribution of base shear in the two system on the basic 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 plan of each floor

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

Part 4	**Building in Structural Steel**		
S No	**Description**	**Information**	**Notes**
1	Adopted methods of design	Semi-rigid	IS:800 Cl.3.4.4 IS:800 Cl.3.4.5 IS:800 Cl.3.4.6
2	Design based on	Elastic analysis	
3	Floor construction	NA	
4	Roof construction	Steel Structure	
5	Horizontal force resisting system adopted	Steel Braced frames	Note: Seismic force As per IS : 1893 would depend on system
6	Slenderness rations maintained	Members defined in Table 3.1, IS:800	IS:800 Cl.3.7
7	Member deflection limited to	Beams, Rafters, Purling Top of columns	IS:800 Cl.3.13
8	Structural members	Steel Columns encased in concrete and others not encased in concrete	IS:800 Section-10
9	Proposed materials	General weld-able	IS:2062 IS :8500 IS :801,811 IS:806
10	Minimum metal thickness specified for	Hot rolled section Grade 345 for UB section;	IS:800 CL.3.8,CL.3.8.1 to

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	10 corrosion protection	Grade 250 for is section Grade 350 for Plates	CL.3.8.4, CL.3.8.5
11	Structural connections	Grade 8,8 Bolts and Field and Shop Welding	IS : 800, Section -8 IS : 1929 , 2155,1149 IS 6639,1367 IS 3757, 4000 IS: 1363,1367 IS:816,814,13 95,7280,3613, 6419,6560,81 3,9595
12	Minimum Fire rating proposed , with method	Rating 2 hours. No Special Method for fire proofing	IS:1641,1642,1643

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

Recommendation 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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Job Information

	Engineer	Checked	Approved
Name:			
Date:	28-Jun-24		

Structure Type	SPACE FRAME

Number of Nodes	457	Highest Node	519
Number of Elements	983	Highest Beam	1178

Number of Basic Load Cases	10
Number of Combination Load Cases	21

Included in this printout are data for:

All	The Whole Structure

Included in this printout are results for load cases:

Type	L/C	Name
Primary	1	EQL
Primary	2	-EQL
Primary	3	EQR
Primary	4	-EQR
Primary	5	DL
Primary	6	LL
Primary	7	WLL
Primary	8	-WLL
Primary	9	WLR
Primary	10	-WLR
Combination	11	1.5DL+LL
Combination	12	1.2DL+LL+EQL
Combination	13	1.2DL+LL+EQR
Combination	14	1.2DL+LL-EQL
Combination	15	1.2DL+LL-EQR
Combination	16	1.2DL+LL+WLL
Combination	17	1.2DL+LL+WLR
Combination	18	1.2DL+LL-WLL
Combination	19	1.2DL+LL-WLR
Combination	20	1.5DL+EQL
Combination	21	1.5DL+EQR
Combination	22	1.5DL-EQL
Combination	23	1.5DL-EQR
Combination	24	1.2DL+WLL
Combination	25	1.2DL+WLR
Combination	26	1.2DL-WLL
Combination	27	1.2DL-WLR
Combination	28	1.2EQL+WLL
Combination	29	1.2WLR+EQR
Combination	30	1.2(-EQL-WLL)
Combination	31	1.2*(-EQR-WLR)

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Primary Load Cases

Number	Name	Type
1	EQL	Seismic
2	-EQL	Seismic
3	EQR	Seismic
4	-EQR	Seismic
5	DL	Dead
6	LL	Live
7	WLL	Wind
8	-WLL	Wind
9	WLR	Wind
10	-WLR	Wind

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Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
11	1.5DL+LL	5	DL	1.50
		6	LL	1.50
12	1.2DL+LL+EQL	1	EQL	1.20
		5	DL	1.20
		6	LL	1.20
13	1.2DL+LL+EQR	3	EQR	1.20
		5	DL	1.20
		6	LL	1.20
14	1.2DL+LL-EQL	2	-EQL	1.20
		5	DL	1.20
		6	LL	1.20
15	1.2DL+LL-EQR	4	-EQR	1.20
		5	DL	1.20
		6	LL	1.20
16	1.2DL+LL+WLL	5	DL	1.20
		6	LL	1.20
		7	WLL	1.20
17	1.2DL+LL+WLR	5	DL	1.20
		6	LL	1.20
		9	WLR	1.20
18	1.2DL+LL-WLL	5	DL	1.20
		6	LL	1.20
		8	-WLL	1.20
19	1.2DL+LL-WLR	5	DL	1.20
		6	LL	1.20
		10	-WLR	1.20
20	1.5DL+EQL	1	EQL	1.50
		5	DL	1.50
21	1.5DL+EQR	3	EQR	1.50
		5	DL	1.50
22	1.5DL-EQL	2	-EQL	1.50
		5	DL	1.50
23	1.5DL-EQR	4	-EQR	1.50
		5	DL	1.50
24	1.2DL+WLL	5	DL	1.20
		7	WLL	1.20
25	1.2DL+WLR	5	DL	1.20
		9	WLR	1.20
26	1.2DL-WLL	5	DL	1.20
		8	-WLL	1.20
27	1.2DL-WLR	5	DL	1.20
		10	-WLR	1.20
28	1.2EQL+WLL	1	EQL	1.20
		7	WLL	1.20
29	1.2WLR+EQR	3	EQR	1.20
		9	WLR	1.20
30	1.2(-EQL-WLL)	2	-EQL	1.20
		8	-WLL	1.20
31	1.2*(-EQR-WLR)	3	EQR	1.00

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Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
		10	-WLR	1.00

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Section Properties

Prop	Section	Area (cm^2)	I_{yy} (cm^4)	I_{zz} (cm^4)	J (cm^4)	Material
1	Rect 0.61x0.30	1.86E+3	144E+3	575E+3	395E+3	CONCRETE
2	Rect 0.61x0.23	1.4E+3	61.8E+3	434E+3	189E+3	CONCRETE
3	Rect 0.38x0.23	874.000	38.5E+3	105E+3	96E+3	CONCRETE
4	Rect 0.38x0.23	876.300	38.6E+3	106E+3	96.4E+3	CONCRETE

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Base Pressure

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
51	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLR	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
52	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	18:1.2DL+LL-W	0.000	0.000	0.000
	19:1.2DL+LL-W	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLR	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EQ	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-W	0.000	0.000	0.000
53	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+W	0.000	0.000	0.000
	17:1.2DL+LL+W	0.000	0.000	0.000
	18:1.2DL+LL-W	0.000	0.000	0.000
	19:1.2DL+LL-W	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLR	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EQ	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-W	0.000	0.000	0.000
54	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8 -WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLR	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
55	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLF	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
56	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLF	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
57	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+W	0.000	0.000	0.000
	17:1.2DL+LL+W	0.000	0.000	0.000
	18:1.2DL+LL-W	0.000	0.000	0.000
	19:1.2DL+LL-W	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLR	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EQ	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-W	0.000	0.000	0.000
58	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+W	0.000	0.000	0.000
	17:1.2DL+LL+W	0.000	0.000	0.000
	18:1.2DL+LL-W	0.000	0.000	0.000
	19:1.2DL+LL-W	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLF	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-\	0.000	0.000	0.000
59	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+\	0.000	0.000	0.000
	17:1.2DL+LL+\	0.000	0.000	0.000
	18:1.2DL+LL-\	0.000	0.000	0.000
	19:1.2DL+LL-\	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLF	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-\	0.000	0.000	0.000
60	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLF	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
61	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLF	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
62	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLR	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
63	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000

Er.A.SENTHIL KUMAR
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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLF	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
64	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLF	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-\	0.000	0.000	0.000
65	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+\	0.000	0.000	0.000
	17:1.2DL+LL+\	0.000	0.000	0.000
	18:1.2DL+LL-\	0.000	0.000	0.000
	19:1.2DL+LL-\	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLR	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-\	0.000	0.000	0.000
66	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+\	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-W	0.000	0.000	0.000
	19:1.2DL+LL-W	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLF	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
67	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-W	0.000	0.000	0.000
	19:1.2DL+LL-W	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLF	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
68	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLR	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
69	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	19:1.2DL+LL-W	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLR	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-W	0.000	0.000	0.000
70	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+W	0.000	0.000	0.000
	17:1.2DL+LL+W	0.000	0.000	0.000
	18:1.2DL+LL-W	0.000	0.000	0.000
	19:1.2DL+LL-W	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLR	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-W	0.000	0.000	0.000
71	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLR	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
72	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000

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Base Pressure Cont...

Node	L/C	FX (N/mm^2)	FY (N/mm^2)	FZ (N/mm^2)
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLF	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000
73	1:EQL	0.000	0.000	0.000
	2:-EQL	0.000	0.000	0.000
	3:EQR	0.000	0.000	0.000
	4:-EQR	0.000	0.000	0.000
	5:DL	0.000	0.000	0.000
	6:LL	0.000	0.000	0.000
	7:WLL	0.000	0.000	0.000
	8:-WLL	0.000	0.000	0.000
	9:WLR	0.000	0.000	0.000
	10:-WLR	0.000	0.000	0.000
	11:1.5DL+LL	0.000	0.000	0.000
	12:1.2DL+LL+E	0.000	0.000	0.000
	13:1.2DL+LL+E	0.000	0.000	0.000
	14:1.2DL+LL-E	0.000	0.000	0.000
	15:1.2DL+LL-E	0.000	0.000	0.000
	16:1.2DL+LL+V	0.000	0.000	0.000
	17:1.2DL+LL+V	0.000	0.000	0.000
	18:1.2DL+LL-V	0.000	0.000	0.000
	19:1.2DL+LL-V	0.000	0.000	0.000
	20:1.5DL+EQL	0.000	0.000	0.000
	21:1.5DL+EQR	0.000	0.000	0.000
	22:1.5DL-EQL	0.000	0.000	0.000
	23:1.5DL-EQR	0.000	0.000	0.000
	24:1.2DL+WLL	0.000	0.000	0.000
	25:1.2DL+WLF	0.000	0.000	0.000
	26:1.2DL-WLL	0.000	0.000	0.000
	27:1.2DL-WLR	0.000	0.000	0.000
	28:1.2EQL+WL	0.000	0.000	0.000
	29:1.2WLR+EC	0.000	0.000	0.000
	30:1.2(-EQL-W	0.000	0.000	0.000
	31:1.2*(-EQR-V	0.000	0.000	0.000

Er.A.SENTHIL KUMAR
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HAYDANS ENGINEERS
Registered Structural Engineer Grade 1
Chennai Metropolitan Development Authority
Reg.No.: SE/GR-1/2020/02/254

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

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Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.