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STRUCTURAL DESIGN BASIS REPORT

FOR

PROPOSED CONSTRUCTION OF BASEMENT FLOOR + STILT FLOOR +5 FLOOR RESIDENTIAL BUILDING AT S.NO. 257/1A1, 257/1A2A, 257/1A2B, 257/1B, 257/2A, 257/2B1, 257/2B2, 257/2C. KAZHIPATHUR VILLAGE, THIRUPORUR TALUK, CHENGALPATTU DISTRICT.

DESIGNAGE
Consulting Structural Engineers

OFFICE NO.402, WING-C, 4TH FLOOR,
AUDUMBAR APTS., CANAL ROAD,
WARJE, PUNE-411052.
tp.designage@gmail.com, ss.designage@gmail.com.

CLIENT

M/S EMERALD HAVEN REALITY LTD

ARCHITECT-

SHRISHTI DESIGN CONSULTANTS

GEOTECHNICAL CONSULTANTS

PRASAD ARMSTRONG YEN GEC (P) LTD.

RO–14.AUGUST. 2024

P. PRADEEP M.Tech
DTCP Reg No. CGLRGN/SE/GR-I/2019/05/007
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Designage Consulting Structural Engineers

1. INTRODUCTION

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15. CODES AND STANDARDS

Designed by P. Pradeep Structural Engineer

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1. INTRODUCTION

The proposed development consists of **Basement + Ground Floors + 5 Floors** Tower is mean for use as residential building. The basement Floor to be used as Parking Area & for Services. The 1st to 5th floor to be used for commercial purposes. Tower is meant for use as residential building. Lift machine rooms are above the terrace level.
The Structural system for building consists of column, shear walls, beams & slabs. Shear walls are the part of Lateral Load Resistance system.

The floor to floor height of respective floors is as shown below.

Floor level	Floor to Floor Ht (m)
Basement floor	3.60
Ground Floor	3.4
1st Floor to 5th Floor	2.95
5th to Terrace	2.95

The total height of building up to Terrace level is 18.15 meter (excluding parapet) from Ground level.

2. DESIGN LOADS

2.1 Material Dead Loads as per IS875 (part-1) :

The self-weight of the various elements are computed based on the built weight of materials as given below.
The self-weight of the various elements are computed based on size and density of materials as given below:-

Density of Reinforced Cement Concrete	=	25 kN/m^3
Density of Plain Cement Concrete	=	24 kN/m^3
Density of Steel	=	78.5 kN/m^3
Density of Soil	=	18 kN/m^3
Density of Saturated Soil	=	20 kN/m^3
Density of Water	=	10 kN/m^3
Density of light weight Masonry	=	10 kN/m^3
Density of Plum Concrete	=	24 kN/m^3

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2.2 Weight of Walls:

External Wall with 200 thk	=	5.51 kN/m^2
Internal AAC Wall with 200 thk	=	2.51 kN/m^2
Internal AAC Wall with 100 thk	=	1.51 kN/m^2

Typical calculations for wall load :

External Wall with 200 thick

Concrete wall Density = 25 kN/ cu. meter

Plaster Density = 20.4 kN/ cu. meter

Plaster thickness = 25mm (Internal + External)

Wall Load = (0.2x25+0.025x20.4)=5.51KN/m^2

Internal Wall with 200 thick light weight block

Light Weight Block Density = 10 kN/ cu. meter

Plaster Density = 20.4 kN/ cu. meter

Plaster thickness = 25mm (Internal + External)

Wall Load = (0.2x10+0.025x20.4)=2.51KN/m^2

Internal Wall with 100 thick light weight block

Light Weight Block Density = 10 kN/ cu. meter

Plaster Density = 20.4 kN/ cu. meter

Plaster thickness = 25mm (Internal+ External)

Wall Load = (0.100x10+0.025x20.4) = 1.51KN/m^2

Note: For localized design of slabs, wall loading shall be applied as per actual layout.

2.3 DEAD& LIVE LOADS:

The construction load, super imposed dead load that are envisaged to act permanently (wherever applicable) as per IS:875(part-1)–1987 & Live loads for each occupancy category as per IS:875(part-2)–1987 and Live load reduction is considered as per IS:875(part-2) CL.3.2.

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2.3.1 PARKING AREA

Description		KN/m²
Dead Load	Slab & beam	Self-weight
Superimposed Dead Load	Floor Finishes including screed (50mm Thk Tremix)	1.0
	Services	1
Live Load	Parking Area	4.0

2.3.2 GROUND FLOOR

Description		KN/m²
Dead Load	Slab & beam	Self-weight
Superimposed Dead Load	Floor Finishes including screed (50mm Thk Tremix)	1.0
	Services	0.5
	Landscape	5.40
Live Load	Parking Area	4.0

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2.3.3 1ST TO 5TH TYPICAL RESIDENTIAL FLOORS

Description		KN/m²
Dead Load	Slab & Beam	Self-weight
Superimposed Dead Load	Floor Finishes	1
	Toilet Sunk 150 mm (Including Finish)	1.5
	Services	0.5
Live Load	Room	2
	Toilet	2
	Balconies	3
	Corridors, Passages, including fire escapes, Lift lobbies Staircase	3

2.3.4TERRACE LEVEL

Description		
Dead Load	Slab & Beam	Self-weight
	Water proofing & Floor Finishes including screed (150mm)	3 KN/m²
	Landscape at 2nd floor terrace	5.40 KN/m²
Live Load	Live	1.50 KN/m²

Description		
	Lift Machine Room	400KN per lift (as per architectural drawings)
	Head Room	100KN (Including Self Weight)

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2.4 WIND LOADS

The wind pressure is calculated on the basis of data furnished below and other provisions laid in IS875 (Part-3) – 2015

Basic Wind Speed	V_b	=	50 m/sec
Risk Coefficient	K_1	=	1 (Based on 50 years return period)
Terrain, Height Factor	K_2	=	1.06 (as per Table 2 of IS: 875 (Part 3) – 2015)
Terrain Category		=	II
	K_3	=	1
	K_4	=	1

Design Wind Speed (V_z)

$V_z=V_b \times K_1 \times K_2 \times K_3 \times K_4$

Where,
V_b =Basic Wind Speed
K_1 = Risk Co-efficient for different classes of structures in different wind speed zones.
K_2 = Terrain roughness & height factor.
K_3 = Topography factor.
K_4 = Importance factor for cyclonic region.

Design Wind Pressure
$Pz = 0.6Vz^2$

2.4.1 GUST FACTOR

Gust factor method shall be used as per clause No. 10.0 IS 875 (part 3) - 2015. (If required.)

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2.5 EARTHQUAKE LOAD

The loading due to earthquake is assessed as per the provisions of IS: 1893 (Part-1):2016

Seismic Zone		=	III
Soil type		=	I
Table-2	Zone factor (Z)	=	0.16
Table-6	Importance Factor (I)	=	1.2
Table-7	Response Reduction Factor (R)	=	4.0
	Height of buildings (H)	=	18.15m

Height of building considered from stilt floor for time period calculation.

Fundamental natural time period (Ta)

Ta(x) = 0.09H / √ d from CL.7.6.1– IS1893 (part – I):2016

Ta(y) = 0.09H / √ d from CL.7.6.1 – IS1893 (part – I):2016

Sa/g from FIG-2 IS 1893 (part I):2016.

Horizontal Seismic Co-Efficient

$$Ahx = \frac{Z \times I \, Sa}{2 \times R \, g}$$

$$Ahy = \frac{Z \times I \, Sa}{2 \times R \, g}$$

Dynamic analysis is performed using response reduction as per IS-1893(2016) Clause 7.7.

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3. CHECK FOR LATERAL SWAY AS PER IS 456-2000 & IS 1893-2016

It is generally recognized that absolute sway is not a perceivable parameter; however, limiting sway is used to provide a reasonable level of stiffness and in order to limit damage to non-structural elements as well as limit size of curtain wall joints, etc.

Generally tall building lateral load resisting systems are sized on the basis of limiting overall lateral sways to limits of approximately Overall Height/500 under the 50 year return period wind loads, Overall Height/400 under the 20 year return period wind loads and Overall Height/250 under seismic loads.

4. CHECK FOR LATERAL SWAY (STOREY DRIFT) AS PER IS- 1893-2016

The allowable lateral sway (storey drift) due to earthquake force should not exceed L/250, Where L is the storey height

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5. BASIC LOAD CASES

The various loads are combined in accordance with the stipulations in IS: 875 (Part 5)-1987. Wherever imposed load is combined with earthquake load the appropriate part of the imposed

Load as specified in IS: 1893-2016 is adopted both for evaluating earthquake effect and for combined load effects, used in such combination.

5.1 Basic Load Cases

Load Case Type	Mark	Description
Primary	DL	SELF WEIGHT OF STRUCTURAL MEMBER
Primary	SDL	SUPERIMPOSED DEAD LOAD
Primary	LL1	LIVE LOAD =<3 kN/m^2 (Live 1)
Primary	LL2	LIVE LOAD > 3 kN/m^2 (Live 2)
Primary	LL3	NON REDUCIBLE LIVE LOAD
Primary	EQX	SEISMIC LOAD IN X DIRECTION
Primary	EQY	SEISMIC LOAD IN Y DIRECTION
Primary	WLX	WIND LOAD IN X DIRECTION
Primary	WLY	WIND LOAD IN Y DIRECTION
Primary	SLX	SEISMIC LOAD IN X DIRECTION
Primary	SLY	SEISMIC LOAD IN Y DIRECTION

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6. BASIC LOADS AND LOAD COMBINATIONS

The various loads are combined in accordance with the stipulations in IS: 875 (Part 5)-1987. Wherever imposed load is combined with earthquake load the appropriate part of the imposed load as specified in IS: 1893-2016 is adopted both for evaluating earthquake effect and for combined load effects, used in such combination.

Description of Load Combination	Load Factor for Primary Load Cases				
	Dead Load	Live Load	Wind Load	Seismic Load	Temp Load
Dead load	1.5	0.0	0.0	0.0	0.0
Dead load + Live load	1.5	1.5	0.0	0.0	0.0
Dead load+Wind load	1.5	0.0	±1.5	0.0	0.0
Dead load+Seismic load	1.5	0.0	0.0	±1.5	0.0
Dead load+Live load+Wind	1.2	1.2	±1.2	0.0	0.0
Dead load+Live load+Seismic	1.2	1.2	0	±1.2	0.0
Dead Load + Wind Load	0.9	0.0	±1.5	0.0	0.0
Dead Load + Seismic Load	0.9	0.0	0.0	±1.5	0.0

7. ANALYSIS METHOD

The structure is analyzed for Static loads (both dead and live loads) and Lateral loads due to Earthquake/Wind loads and its combinations. Software used is E-Tabs version 19.0.0 & for foundation safe version 16.0.2.

The structure will be modeled as 3D space frame. Floor slabs shall be modeled as membrane elements for diaphragm effect only.

8. DESIGN METHODOLOGY

All structural members will be designed according to the Limit State Method as specified in IS: 456-2000. Appropriate loads and its combinations, as per relevant clauses in Code IS 456:2000 Code IS 875 (Part-5) 1987, for the most unfavorable effects are chosen for design.

Limit state method is adopted for design of overhead water tanks by using IS-3370(2009)

9. CONSTRUCTION DETAILS

1. Foundation -M: 25
2. Water Tanks -M: 30
3. Columns/Walls -M: 30
4. Beams & Slabs -M: 30

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10. REINFORCEMENT

Steel reinforcement shall be of Grade Fe 500 conforming to IS: 1786-1985.

11. EXPOSURE CONDITION

Structural elements below ground level and Exterior External faces of walls are designed for severe exposure condition and internal faces of walls, floor beams and slabs are designed for Mild exposure conditions per Table 16 of IS 456-2000.

12. COVER TO REINFORCEMENT

As per Table 16A-IS: 456-2000.

Member	Clear Cover (mm)
Footing	75 mm
Column	40 mm
Shear Walls	40 mm
Beams	40 mm
Slabs	20 mm
Staircase waist slab	30 mm
Water Tanks	40 mm

13. FOUNDATION SYSTEM

The building has been supported on Isolated column footing & Combined Raft footing as per soil investigation report provided by PRASAD AMSTRONG YEN GEC (P) LTD

14. FIRE RATING

Fire rating of 2 hours is considered for columns and 1.5 hours for beam and slabs.

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15. CODES AND STANDARDS

All the designs are conforming to the relevant Indian Standards. Some of the relevant Indian Standard Codes, which have been followed for the structural designs, are given below.

Code	Description
IS:875 (Part-1)-1987	Code of Practice for Design Loads (Other than Earthquake) for Building and Structures-Unit Weights of Buildings Materials and Stored Material.
IS:875 (Part-2)-1987	Code of Practice for Design Loads (Other than Earthquake) for Building and Structures-Imposed loads
IS:875 (Part-3)-2015	Code of Practice for Design Loads (Other than Earthquake) for Buildings and Structures - Wind Load.
IS:875 (Part-5)-1987	Code of Practice for Design Loads (Other than Earthquake) for Buildings and Structures - Special Loads and Load Combinations
IS:456-2000	Code of Practice for Plain and Reinforced Concrete
IS:1893 (Part-1)-2016	Indian Standard Criteria for Earthquake Resistant Design of Structures
IS:432 (Part-1)-1982	Specification of Mild Steel and Medium Tensile Steel bars and Hard drawn Steel Wire for concrete reinforcement -Mild Steel and Medium Tensile Steel Bars
IS:432 (Part-2)-1982	Specification of Mild Steel and Medium Tensile Steel bars and Hard drawn Steel Wire for concrete reinforcement -Hard drawn Steel Wire.
IS:1786-1985	Specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement
IS:13920-2016	Ductile Detailing of reinforced concrete structures subjected to seismic forces - code of practice.
IS:1904	Indian Standard Code of practice for Design & Construction foundations in Soil: General Requirements.
IS:1642-1989	Indian Standard Code of practice for Fire Safety of Buildings (General): Details of Construction.
IS:3370-2009	Indian Standard Code of practice for Concrete Structures for Storage of Liquids.
IS:1343-1980	Indian Standard Code of practice for Pre-stressed Concrete.

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DESIGNAGE
CONSULTANTS PRIVATE LIMITED

DATE-30.09.2024

STRUCTURAL STABILITY CERTIFICATE

I certify that the **proposed construction of High Rise Building (HRB) with 53.55m height comprising stilt floor + 16 floorsfor Senior Living Residential Apartment at S.F.NO: 16/1A1Apt, 16/1A1Bpt, 16/1A1Cpt, 18/2Apt, 18/3pt, 20pt in Thaiyur "A" Village, Tiruporur Taluk, Chengalapattu District**

,

is designed by us is structurally Sound, Safe and Stable against all possible Seismic Loads, Wind Load, and Combination of loads as per IS Code, the structure is intended to carry.

Thank you,

For Designage Consultants Pvt Ltd.

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DESIGNAGE
CONSULTANTS PRIVATE LIMITED

DATE-14.08.2024

STRUCTURALSTABILITYCERTIFICATE

Proposedconstruction of non-Highrise Building in consisting of Basement Floor + Ground Floor + 5 Floorscomprised in S.NO. 257/1A1, 257/1A2A, 257/1A2B, 257/1B, 257/2A, 257/2B1, 257/2B2, 257/2C. Kazipathur Village, Thiruporur Taluk, Chengalpattu District.

Proposed Construction of Basement Floor + Ground Floor + 5 Floors Residential Building (Height 18.30m) S.NO. 257/1A1, 257/1A2A, 257/1A2B, 257/1B, 257/2A, 257/2B1, 257/2B2, 257/2C. Kazipathur Village, Thiruporur Taluk, Chengalpattu District isstableagainst all possible Seismic loads, Wind loads and other combinations of loads as per the relevant IS Codes and other Codes in vogue which the structure is intended to withstand.

Checkhasbeenmadeandensuredthatitisstructurally safe&sound forthe intendedpurposes. Also herebycertifythatthefollowing,

1. Foundation&itsShearwall/ColumnsaredesignedconsideringBasement Floor + Ground Floor + 5 Floors structurewithLMR, OHT andHeadroomasperArchitecturalplans consideringtherelevant Commercial BuildingloadingsasBIS.

2. Theminimumgradeof-concreteused intheinthedesignofstructuralelementis M25.

3. TheAnalysisanddesigncarriedoutfortheintendedResidentialBuildingloadingasperthecode ofpracticeIS875Partlto2,windforcesasperIS875-2015(Part3)andseismicforcesasperthe seismiccodeofpracticeIS1893-2016.

4. DesignofStructuralelements&detailingcarriedoutasperthestipulationsmadeasperthecode ofpracticeIS456-2000&IS-13920-2016.

5. Isolated footings with combined raft Foundationaredesigned consideringthesubsoilcondition reported&the recommendationlaiddownintheSoilInvestigationReportNo:040/GI/24-25 dated 5th July 2024 was carriedout byPrasad Armstrong Ten Jec P. Ltd.,Chennai.

6. Thebuilding will be structurally stable when used for the purpose forwhichit is designed.

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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 No. 257, Kazhipattur Village, Thiruporur Taluk, Chengalpattu district, Kazhipattur, Chennai 603103 TN	
2.	Name of Owner/Represented By	M/S Emerald Haven Reality Ltd.	
3.	Name of Registered Developer along with the Registration Number		
4.	Name of Registered Architect/Engineer along with the Registration Number	Shrishti design consultants	
5.	Name of Registered Structural engineer along with the Registration Number	Mr.P. PRADEEP CGLRGN/SE/Gr-1/2019/05/007.	
6.	Use of the building	RESIDENTIAL USE	
8.	Number of basements below Ground level	1	
9.	Type of structure Load bearing walls R.C.C. Frame R.C.C.FrameandShearWalls SteelFrame	RCC Frame	
10.	Soil data Type of soil Design safe bearing capacity	GREY BROWN WEATHERED ROCK 35T/m^2	IS:1893C1. 6.3.5.2 IS:1904 IS:1892 IS:2131 IS:2720
11.	Dead loads (unit weight adopted) ▫ Earth ▫ Water ▫ Brickmasonry ▫ Plain cementconcrete ▫ Reinforced cementconcrete ▫ Floorfinish ▫ Other fillmaterials ▫ Light weight masonry	 18KN/m^3 10KN/m^3 18KN/$m^2$24K N/m^3 25KN/m^3 1.5KN/m^2 0 KN/m^2 10 KN/m^2	IS: 875 Part 1

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12.	Imposed (Live) Loads Floor load Roof Load	2KN/m^2 1.5KN/m^2	IS: 875 Part 2
13.	Cyclone/Wind ▫ Speed ▫ Design pressureintensity	50 m/s 1.68 KN/m^2	IS: 875 Part 3
14.	Seismic zone	Zone III	IS: 1893 (2016)
15.	Importance factor	1.2	IS:1893(2016) Table 8
16.	Seismic zone factor (Z)	0.16	IS:1893 Table 3
17.	Response reduction factor	4.0	IS:1893 Table 9
18.	Fundamentalnaturalperiod–approx.	As per analysis model	IS:1893
19.	Design horizontal acceleration spectrum value, (Ah)	In x -0.06 In Y -0.06	IS: 1893 C1.6.4.2
20.	# Expansion/Separation Joints		
21.	Building is Regular/irregular	Regular	IS 1893

Enclosedetaileddrawingsdrawntoscaleforeachfloor

- Incaseterracegardenisprovided,indicateadditionalfillloadandliveloadalon gwiththe detailed drawings drawn toscale.

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Part 2	Load bearing masonry buildings		
Sr.No.	Description	Information	Notes
1.	Building category	NA	IS: 4326 C1.7 Read with IS:1893 Zone II III IV V Bldg. 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)	Ground Floor	
4.	Type of wall masonry	Brick/Solid Block	
5.	Type and mix of Mortar	CM 1:3, 1:4 & 1:5	IS: 4326 C1.8.1.2
6.	Size and position of openings (See note No.[i]) ▫ Minimum distance(b5) ▫ Ratio (b1+b2+b3)/11 d(b6+b7)/12 ▫ Minimum pierwidth between consequent opening (b4) ▫ Vertical distance(h3) ▫ Ratio of wall heightto thickness 4Ratio of wall length between cross wall to thickness	Refer Joineries in Plan Provided as per codal provisions	IS: 4326 Table 4, Fig.7
7.	Horizontal seismic band ▫ at plinthlevel ▫ at window sillevel ▫ at lintellevel ▫ at ceilinglevel ▫ at eave level of sloping roof ▫ attopofgablewalls ▫ attopofridgewalls	P IP NA P p p NA N A N A	(see noteNo.2) IS:4326C18.4.6 IS:4326C18.3 IS:4326C18.4.2 IS:4326C18.4.3 IS:4326C18.4.3
8.	Vertical reinforcing bar at corners and T junction of walls at jambs of doors and window openings	As per codal Provisions	IS: 4326 C1 8.4.8. IS: 4326 C1 8.4.9

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9.	Integration of prefab roofing/flooring elements through reinforced concrete screed.	NA	IS:4326 C1 9.1.4
10	Horizontal bracings inpitched trussinhorizontalplaneatth e leveloftiesintheslopesof pitched roofs	N A	

Notes: (i)InformationinItem6shouldbegivenonseparateA4sheetsforallwallsw ithlargenumber ofopenings

(ii) IP indicated "Information Provided"

IPindicates"Informationtobep

rovided" NA indicates

"NotApplicable"

Tick mark one box

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Part 3	Reinforced Concrete Framed Buildings		
Sl. No.	Description	Information	
1.	Type of building ▫ Regularframes ▫ Regular frames with ShearWalls ▫ Irregularframes ▫ Irregular frames with ShearWalls ▫ Softstory	Regular Frames	IS: 1893 C1 7.1
2.	Number of basements	1	
3.	Number of floors including ground floor	B+G+5	
4.	Horizontal floor system ▫ Beams andslabs ▫ Waffles ▫ Ribbedfloor ▫ Flat slab withdrops ▫ Flat plate withoutdrops	Beams and Slabs	
5.	Soil data ☐ Type of soil ☐ Recommended type of foundation -Independent footings -Raft -Piles ▫ Recommended bearing capacity ofSoil ▫ Recommended type, length, Diameterandloadcapacityof piles ▫ Depth of watertable ▫ Chemical analysis of groundwater ▫ Chemical analysis ofsoil	GREY BROWN WEATHERED ROCK Isolated Foundation Raft 35.00 T/m^2 NA As Per Soil Report NA See Annexure	
6.	Foundations Depth below ground level Type Independent Interconnected Raft Piles	3.5 m Isolated Foundation	
7.	System of interconnecting foundations Plinth beams Foundation beams	Plinth Beams	IS: 1893 C1 7.12.1
8.	Gradesifconcreteusedindifferent parts ofbuilding	M30 FOR All work	

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9.	Method of analysis used	Elastic Analysis	
10	Computer software used	ETABS	
11.	Torsion included	Yes	IS: 1893 C1 7.9
12.	Base shear a. Based onapproximate fundamentalperiod b. Based on dynamicanalysis c. Ratio ofa/b	As per analysis NA NA	IS: 1893 Cl. 7.5.3
13.	Distribution of seismic forces along the height of the building	Refer Sketch	IS:1893 Cl.7.7 (Provide sketch)
14.	The Column of soft ground story specially designed.	NA	IS: 1893 Cl.7.10
15.	Clear minimum cover provided in Footing Column Beams Slabs walls	 75mm 40mm 40mm 20mm 40mm	IS:456 Cl. 26.4
16.	Ductile detailing of RC frame ☐ Type of reinforcement used ☐ Minimum dimension ofBeams ☐ Minimum dimension ofColumns ▫ Minimum percentage of reinforcementofbeams at any crosssection ▫ Maximum percentage of reinforcementatanysection 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	FE 550 200 x 600 mm 200x 800 mm $0.24\frac{\sqrt{fck}}{fy}$ $\frac{0.85/\ bD}{fy}$ 0.04bD 100 mm 0.025	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 IS: 456 Cl.26.5.1.1(b) IS: 13920 Cl.6.2.2 IS: 13920 Cl.6.3.5 IS:456 Cl.26.5.3.1a

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	☐ 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 story.	4% 8mm 100 mm c/c	IS: 13920 Cl. 7.4
17.	Doesthefeaturesrequireclearance bySDRP Example: High rise building Prefab building Building in hazard prone areas	NA	

Foundation

i. Incaseraftfoundationhasbeenadopted,indicateKvalueusedforanalysisoftheraft.

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

iii. In case of high water table, indicate system of countering water pressure, and indicate the existingwatertable,andthatassumedtodesignfoundations.

Idealization for Earthquake analysis

i. Incaseofcompositesystemofshearwallsandrigidframes,givedistributionofbasesheari n thetwosystemsonthebasisofanalysis,andthatusedfordesignofeachsystem

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

iii. Submit framing plans of eachfloor

iv. Incaseofbasements,indicatethesystemusedtocontainearthpressures

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art 4	Buildings in structural steel		
Sl. No.	Description	Information	Notes
1.	Adopted method of design	o Simple o Semi-rigid o Rigid	IS:800 Cl3.4.4 IS:800Cl.3 .4.5 IS:800Cl.3 .5.6
2.	Design based on	o Elasticanalysis o Plasticanalysis	IS: 800 Section-9 SP;6 (6)
3.	Floor construction	o Composite o Noncomposite o Boarded	
4.	Roof construction	o Composite o Noncomposite o Metal o Anyother	
5.	Horizontalforce resistingsystem adopted	Frames & Braced frames	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	Rafters Span/180 Purlins-Span/200 Column-Height/60 Canopy-Span/120	IS:800 Cl.3.13
8.	Structural members	o Encased inconcrete o Notencased	IS: 800 Section-10
9.	Proposed material	o Generalweld-able o Highstrength o Coldformed o Tubular	IS:2062 IS:8500 IS: 801, 811 IS: 806

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10.	Minimum metal thickness Specified for corrosion protection	o Hot rolledsections-10mm o Cold formedsections-2mm 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 CTBolts o S H F GBolts o BlackBolts o Weldingfield 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	o Rating 2 hours o Method proposed. -In tumescent painting -Spraying -Quilting -Fire retardant boarding	IS: 1641, 1642, 1643

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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

RecommendationsofstructuralEngineerwithrespecttospecialrequiremen tsneededwithrespectto structuralsafetyandstabilitytobetakennoteofbycompetentauthorityfeatu relikeincorporationof swimming pool, heavy load on roof ,prefabricated structure or any other hazardous features should beincluded.

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For

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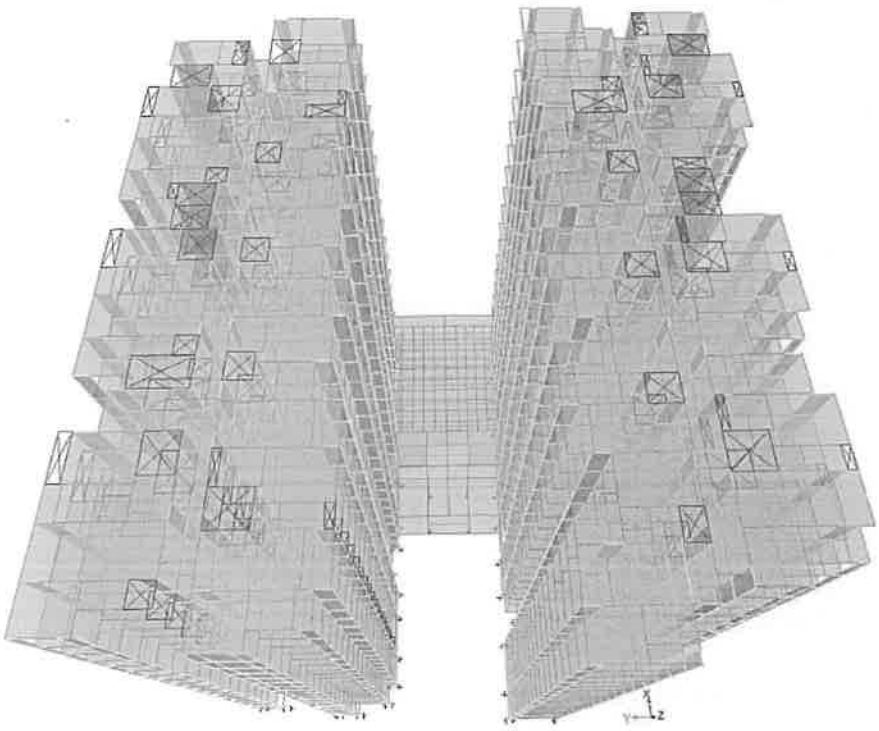
STRUCTURAL DESIGN BASIS REPORT

FOR

PROPOSED DEVELOPMENT (STILT FLOOR + 16 FLOORS+ TERRACE) AT,
THAIYUR, TAMIL NADU

DESIGNAGE
Consulting Structural Engineers

OFFICE NO.402, WING-C, 4TH FLOOR,
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R0–09TH FEB. 2024

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   - 2.1 Material Dead Loads
   - 2.2 Weight of Walls
   - 2.3 Dead Loads
   - 2.4 Wind Loads
   - 2.5 Earthquake Load

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6. BASIC LOADS AND LOAD COMBINATIONS

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24. SAFE -FOUNDATION

25. SHEAR WALL DESIGN

26. COLUMN DESIGN

27. RCC BEAM REINFORCEMENT ETABS

28. SLAB DESIGN

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1. INTRODUCTION

The proposed development consists of two towers connected by podiums up to 2nd Floor. Tower A consists of Stilt Floor + 15-Floors + 1Floor (Provision) + Terrace & Tower B consists of Stilt Floor + 16-Floors + Terrace. The Structure is mean for use as residential use. The Stilt Floor to be used as Parking Area & for Services. The 1st to 16th floor to be used for residential purposes. Lift machine rooms are above the terrace level.
The Structural system for building consists of column, shear walls, beams & slabs. Shear walls are the part of Lateral Load Resistance system.

The floor-to-floor height of respective floors is as shown below.

Floor level	Floor to Floor Height (m)
Stilt Floor	4.05
1st Floor to 2nd Floor	4.5
2nd Floor to 16th Floor	3

The total height of building up to Terrace level is 53.55 meter (excluding parapet) from Stilt Floor level.

2. DESIGN LOADS

2.1 Material Dead Loads as per IS875 (part-1):

The self-weight of the various elements is computed based on the built weight of materials as given below.
The self-weight of the various elements is computed based on size and density of materials as given below: -

Density of Reinforced Cement Concrete	=	25 kN/m^3
Density of Plain Cement Concrete	=	24 kN/m^3
Density of Steel	=	78.5 kN/m^3
Density of Soil	=	18 kN/m^3
Density of Saturated Soil	=	20 kN/m^3
Density of Water	=	10 kN/m^3
Density of light weight Masonry	=	10 kN/m^3

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Density of Plum Concrete = 24 kN/m^3

2.2 Weight of Walls:

External Light Weight Wall with 200 thk = 2.51 kN/m^2

Internal Light Weight Wall with 150 thk = 1.51 kN/m^2

Typical calculations for wall load:

External Wall with 200 thick Light Weight wall

Brick wall Density = 10 kN/ cu. meter

Plaster Density = 20.4 kN/ cu. meter

Plaster thickness = 25mm (Internal + External)

Wall Load = (0.20x10+0.025x20.4) =2.51KN/m^2

Internal Wall with 100 thick Light Weight wall

Brick wall Density = 10 kN/ cu. meter

Plaster Density = 20.4 kN/ cu. meter

Plaster thickness = 25mm (Internal+ External)

Wall Load = (0.10x10+0.025x20.4) =1.51KN/m^2

Note: For localized design of slabs, wall loading shall be applied as per actual layout.

2.3 DEAD& LIVE LOADS:

The construction load, super imposed dead load that are envisaged to act permanently (wherever applicable) as per IS:875(part-1)–1987 & Live loads for each occupancy category as per IS:875(part-2)–1987 and Live load reduction is considered as per IS:875(part-2) CL.3.2.

2.3.1 PARKING AREA

Description		KN/m^2
Dead Load	Slab & beam	Self-weight
Superimposed Dead Load	Floor Finishes including screed (50mm Thk Tremix)	1.0
	Services	0.5
Live Load	Parking Area	3.0

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2.3.2 1ST TO 16TH TYPICAL RESIDENTIAL FLOORS

Description		KN/m²
Dead Load	Slab & Beam	Self-weight
Superimposed Dead Load	Floor Finishes	1
	Toilet Sunk 200 mm (Including Finish)	4
	Services	0.5
Live Load	Habitable Rooms	2
	Toilet	2
	Balconies	3
	Corridors, Passages, Staircase including fire escapes, Lift lobbies,	3
	Multipurpose hall, Restaurant	4
	Gymnasium	5

2.3.3 TERRACE LEVEL

Description		
Dead Load	Slab & Beam	Self-weight
	Water proofing & Floor Finishes including screed (150mm)	3.00 KN/m²
	Landscape at 2nd Floor Terrace	5.40 KN/m²
Live Load	Live	1.50 KN/m²

Description		
	Lift Machine Room	400KN per lift (as per architectural drawings)
	Head Room	200KN (Including Self Weight)

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2.4 WIND LOADS

The wind pressure is calculated on the basis of data furnished below and other provisions laid in IS875 (Part-3) – 2015

Basic Wind Speed	V_b	=	50 m/sec
Risk Coefficient	K_1	=	1 (Based on 50 years return period)
Terrain, Height Factor	K_2	=	1.06 (as per Table 2 of IS: 875 (Part 3) – 2015)
Terrain Category		=	II
	K_3	=	1
	K_4	=	1

Design Wind Speed (V_z)

$V_z = V_b \times K_1 \times K_2 \times K_3 \times K_4$

Where,

V_b =Basic Wind Speed

K_1 = Risk Co-efficient for different classes of structures in different wind speed zones.

K_2 = Terrain roughness & height factor.

K_3 = Topography factor.

K_4 = Importance factor for cyclonic region.

Design Wind Pressure

$P_z = 0.6V_z^2$

2.4.1 GUST FACTOR

Gust factor method shall be used as per clause No. 10.0 IS 875 (part 3) - 2015. (If required.)

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2.5 EARTHQUAKE LOAD

The loading due to earthquake is assessed as per the provisions of IS: 1893 (Part-1):2016

Seismic Zone		=	III
Soil type		=	I
Table-2	Zone factor (Z)	=	0.16
Table-6	Importance Factor (I)	=	1.2
Table-7	Response Reduction Factor (R)	=	4.0
	Height of buildings (H)	=	53.55m

Height of building considered from stilt floor for time period calculation.

Fundamental natural time period (Ta)

Time Period calculations as per IS1893:2016

For Tower A

N_w	L_{wl}	W_{wl}	A_{wl}	h	$A_{wl}\{0.2+(\text{Min}(0.9,L_{wl}/h))\}^2$	$T_a = 0.75\,h^{0.75}/\sqrt{(A_w)}$ =	Tx
	mm		mm	m			
1	19550	300	5865000	53.55	1.95470446	**1.0204**	Sec
2	3950	200	790000	53.55	0.162298356		

Hence Tx = **1.02 sec**

N_w	L_{wl}	W_{wl}	A_{wl}	h	$A_{wl}\{0.2+(\text{Min}(0.9,L_{wl}/h))\}^2$	$T_a = 0.75\,h^{0.75}/\sqrt{(A_w)}$ =	Ty
	mm		mm	m			
1	48875	300	14662500	53.55	15.14663218	**0.3627**	Sec
2	18200	200	3640000	53.55	1.148460507		
3	3725	600	2235000	53.55	0.457814617		

But Ty shall not be less than 0.09H / √ d as per amendment 2
Hence Ty = 0.09H / √ d = 0.09x53.55 / √ 17.5 = **1.15 Sec**

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Time Period calculations as per IS1893:2016

For Tower B

N_w	L_{wi}	W_{wi}	A_{wi}	h	$A_{wi}\{0.2+(\text{Min}(0.9,L_{wi}/h))\}^2$			
	mm		mm	m		$T_a = 0.75\,h^{0.75}/\sqrt{(A_w)} =$	Tx	
1	17850	300	5355000	53.55	1.666		**1.1503**	Sec
2	0	0	0	53.55	0			

Hence Tx = **1.15 sec**

N_w	L_{wi}	W_{wi}	A_{wi}	h	$A_{wi}\{0.2+(\text{Min}(0.9,L_{wi}/h))\}^2$			
	mm		mm	m		$T_a = 0.75\,h^{0.75}/\sqrt{(A_w)} =$	Ty	
1	48975	300	14692500	53.55	15.22775734		**0.3651**	Sec
2	16100	200	3220000	53.55	0.935064121			
3	3075	600	1845000	53.55	0.375083698			

But Ty shall not be less than 0.09H / √ d as per amendment 2
Hence Ty = 0.09H / √ d = 0.09x53.55 / √ 17.5 = **1.15 Sec**

Horizontal Seismic Co-Efficient

$$Ahx = \frac{Z \times I \, Sa}{2 \times R \, g}$$

$$Ahy = \frac{Z \times I \, Sa}{2 \times R \, g}$$

Dynamic analysis is performed using response reduction as per IS-1893(2016) Clause 7.7.

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3. CHECK FOR LATERAL SWAY AS PER IS 456-2000 & IS 1893-2016

It is generally recognized that absolute sway is not a perceivable parameter; however, limiting sway is used to provide a reasonable level of stiffness and in order to limit damage to non-structural elements as well as limit size of curtain wall joints, etc.

Generally tall building lateral load resisting systems are sized on the basis of limiting overall lateral sways to limits of approximately Overall Height/500 under the 50-year return period wind loads, Overall, Height/400 under the 20-year return period wind loads and Overall, Height/250 under seismic loads.

4. CHECK FOR LATERAL SWAY (STOREY DRIFT) AS PER IS- 1893-2016

The allowable lateral sway (storey drift) due to earthquake force should not exceed L/250, Where L is the storey height

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5. BASIC LOAD CASES

The various loads are combined in accordance with the stipulations in IS: 875 (Part 5)-1987. Wherever imposed load is combined with earthquake load the appropriate part of the imposed

Load as specified in IS: 1893-2016 is adopted both for evaluating earthquake effect and for combined load effects, used in such combination.

5.1 Basic Load Cases

Load Case Type	Mark	Description
Primary	DL	SELF WEIGHT OF STRUCTURAL MEMBER
Primary	SDL	SUPERIMPOSED DEAD LOAD
Primary	LL1	LIVE LOAD =<3 kN/m^2 (Live 1)
Primary	LL2	LIVE LOAD > 3 kN/m^2 (Live 2)
Primary	LL3	NON-REDUCIBLE LIVE LOAD
Primary	EQX	SEISMIC LOAD IN X DIRECTION
Primary	EQY	SEISMIC LOAD IN Y DIRECTION
Primary	WLX	WIND LOAD IN X DIRECTION
Primary	WLY	WIND LOAD IN Y DIRECTION
Primary	SLX	SEISMIC LOAD IN X DIRECTION
Primary	SLY	SEISMIC LOAD IN Y DIRECTION

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6. BASIC LOADS AND LOAD COMBINATIONS

The various loads are combined in accordance with the stipulations in IS: 875 (Part 5)-1987. Wherever imposed load is combined with earthquake load the appropriate part of the imposed load as specified in IS: 1893-2016 is adopted both for evaluating earthquake effect and for combined load effects, used in such combination.

Description of Load Combination	Load Factor for Primary Load Cases				
	Dead Load	Live Load	Wind Load	Seismic Load	Temp Load
Dead load	1.5	0.0	0.0	0.0	0.0
Dead load + Live load	1.5	1.5	0.0	0.0	0.0
Dead load+Wind load	1.5	0.0	±1.5	0.0	0.0
Dead load+Seismic load	1.5	0.0	0.0	±1.5	0.0
Dead load+Live load+Wind	1.2	1.2	±1.2	0.0	0.0
Dead load+Live load+Seismic	1.2	1.2	0	±1.2	0.0
Dead Load + Wind Load	0.9	0.0	±1.5	0.0	0.0
Dead Load + Seismic Load	0.9	0.0	0.0	±1.5	0.0

7. ANALYSIS METHOD

The structure is analyzed for Static loads (both dead and live loads) and Lateral loads due to Earthquake/Wind loads and its combinations. Software used is E-Tabs version 19.0.0 & for foundation safe version 16.0.2.
The structure will be modeled as 3D space frame. Floor slabs shall be modeled as membrane elements for diaphragm effect only.

8. DESIGN METHODOLOGY

All structural members will be designed according to the Limit State Method as specified in IS: 456-2000. Appropriate loads and its combinations, as per relevant clauses in Code IS 456:2000 Code IS 875 (Part-5) 1987, for the most unfavorable effects are chosen for design.
Limit state method is adopted for design of overhead water tanks by using IS-3370(2009)

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9. CONSTRUCTION DETAILS

1. Foundation -M: 30
2. Water Tanks -M: 30
3. Columns/Walls -M: 40, M: 30
4. Beams & Slabs -M: 40, M: 30

10. REINFORCEMENT

Steel reinforcement shall be of Grade Fe 500 conforming to IS: 1786-1985.

11. EXPOSURE CONDITION

Structural elements below ground level and Exterior External faces of walls are designed for severe exposure condition and internal faces of walls, floor beams and slabs are designed for Mild exposure conditions per Table 16 of IS 456-2000.

12. COVER TO REINFORCEMENT

As per Table 16A-IS: 456-2000.

Member	Clear Cover (mm)
Footing	75 mm
Column	40 mm
Shear Walls	40 mm
Beams	40 mm
Slabs	25 mm
Staircase waist slab	30 mm
Water Tanks	40 mm

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13. FOUNDATION SYSTEM

The building has been supported on Isolated column footing as per soil investigation report provided by PRASAD AMSTRONG YEN GEC (P) LTD

14. FIRE RATING

Fire rating of 2 hours is considered for columns and 1.5 hours for beam and slabs.

15. SHRIRANGE STRIP

Shrinkage strips are provided at suitable spacing (approx. 45m) with least disturbances between the buildings and podium to take care of differential temperature and shrinkage.

Shrinkage strips are temporary joints that are left open for a certain time during construction to allow a significant part of the shrinkage to take place without inducing stresses. There by minimizing shrinkage cracks. Such strips divide the structure into parts that shrink independently until they are connected by casting the strip.

In recent years shrinkage strips have replaced expansion joints to great extent in long multistory buildings.

The shrinkage strip is usually 1m wide, across the entire building and is cast, two to four weeks later than the adjacent units to re-establish continuity. During the period the strip remains open, a significant part of the shrinkage takes place, while in the meantime the concrete will gain tensile strength to resist the remaining shrinkage with little or no cracking.

The flexural reinforcement crossing the shrinkage strip is generally made to act continuously from section to section after the joint is closed. It is necessary to lap the reinforcing bars within the strip as shown in respective drawings.

Shrinkage strips can also be used in walls. In such cases the walls are constructed generally in lengths of 10 to 12 m with internal gaps of 1m left between each length. In order to allow unrestrained contraction to take place in each length of wall, the gap should be left open for three to four weeks after the casting of the adjacent length of wall. As in slabs the reinforcement should be lapped within the gap.

The main advantage of shrinkage strip is that, it avoids the permanent gap in the structure, thereby avoiding the chance of possible leakage in the future and reducing maintenance.

- **Sequence of slab casting .....**

Sequencing of casting of expansion / shrinkage strip shall be as follows...

- Casting of 'A' portion of slab.
- Casting of 'B' portion of slab.
- Wait for min 21 days from date of casting of slab (either part A or B) whichever is later.
- Clean the expansion / shrinkage strip thoroughly.
- Concrete the expansion / shrinkage strip portion.

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➢ **Technical literature.....**
Handbook of concrete engineering Page 133 ,134

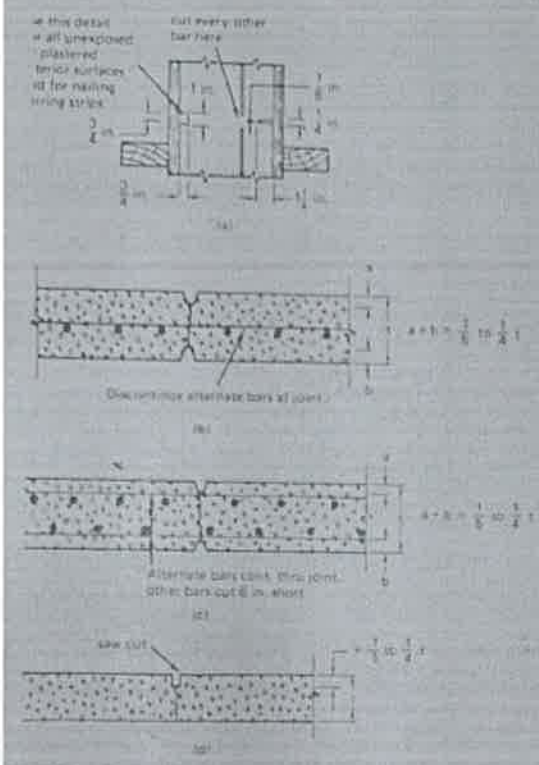


Fig. 4-10 Control joints: (a) Control joints should reduce the effective wall thickness by at least one-fourth; (b) control joints in walls 8 in. thick, or less; (c) control joints in walls over 8 in. thick; and (d) saw cut joint in a slab or pavement.

ab on the inside and the concrete near the free edge of the alcony. Control joints at sufficiently close intervals (less han 10 ft) will usually attract all the shrinkage and temerature cracking. If such joints are extended only partly cross the balcony slab, the concrete near the end of the oint should be locally reinforced to prevent the prolongaon of the joint as a crack.

In cases of continuous forming (slip forming or extrusion) may be advisable to make larger units between joints (if it impractical to form units as one would wish) as a justifible risk, and to rely on the ability of the unit to resist the rces due to frustrated movements caused by volumetric hanges. In such cases a certain amount of shrinkage and mperature reinforcement is required to improve the resistance. It is at times more prudent to trust an unjointed concrete to resist its own movement than to provide an incom-

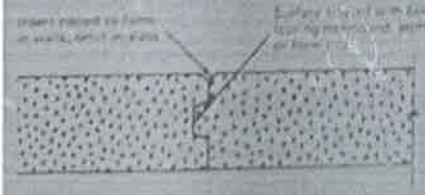


Fig. 4-11 Construction joint used as contraction joint in slab or wall.

plete joint which the structure will probably complete by itself in due course and in a most unsightly manner.

4.12 SHRINKAGE STRIPS

Shrinkage strips are temporary joints that are left open for a certain time during construction to allow a significant part of the shrinkage to take place without inducing stresses. Such joints have been used to a considerable extent both in massive structures and in thin walls and slabs, for the purpose of reducing shrinkage stresses and minimizing shrinkage cracks. Such strips divide the structure into parts that shrink independently until they are connected by casting the strip.

In recent years shrinkage strips have replaced expansion joints to a great extent in long multistory buildings. In enclosed multistory buildings the slabs are subjected only to shrinkage, while the roof slab is subjected to temperature length changes in addition to shrinkage. Therefore, the roof slab, if not insulated sufficiently, may need an expansion or sliding joint (see Figs. 4-14 and 4-15) in addition to the shrinkage strips. Experience has shown that in long multistory buildings, shrinkage strips spaced about 100 to 150 ft apart perform successfully. The distance between horizontal shrinkage strips should be less in slabs with stiff supports (large columns or reinforced concrete walls parallel to the direction of shrinkage) or if the expected shrinkage coefficient is unusually high.

The shrinkage strip is usually 2 to 3 ft wide across the entire building and is cast two to four weeks later than the adjacent units to reestablish continuity. During the period the strip remains open, a significant part of the shrinkage takes place (about 40% of the total shrinkage may occur in the first month), while in the meantime the concrete will gain tensile strength to resist the remaining shrinkage with little or no cracking.

The flexural reinforcement crossing the shrinkage strip is generally made to act continuously from section to section after the joint is closed. However, to run the flexural reinforcement in one piece continuously from one unit through the strip into the other unit would impede unrestrained shrinkage of the concrete units on either side of the strip, thus defeating the objective of the shrinkage strip. Therefore, it is necessary to lap the reinforcing bars within the strip as shown in Fig. 4-12(a). An alternate method of detailing the reinforcement to avoid excessive stresses and possible slippage of the bars on either side of the strip while the strip is still open is special expansion bends within the strip, as shown in Fig. 4-12(b), so as to allow for a change in the length of the strip. The plane of the bends must be parallel to the face of the slab, and the bends placed alternately left hand and right hand, so as to avoid accumulation of stresses when they tend to straighten out due to the loads superimposed upon the completed structure.

Shrinkage strips can also be used in walls. In such cases the walls are constructed in lengths not exceeding 25 ft with internal gaps of 2 ft left between each length. In order to allow unrestrained contraction to take place in each length of wall, the gap should be left open for three to four weeks after the casting of the adjacent length of wall. As in slabs the reinforcement should be lapped within the gap. Another method of reducing shrinkage stresses in walls is to construct them on an alternate panel system (similar to checkerboard casting of slabs on ground), the length of each panel not exceeding about 25 ft. Both examples, or variations of them, are in common use, and they form an acceptable practical approach to limiting the amount of shrinkage cracking.

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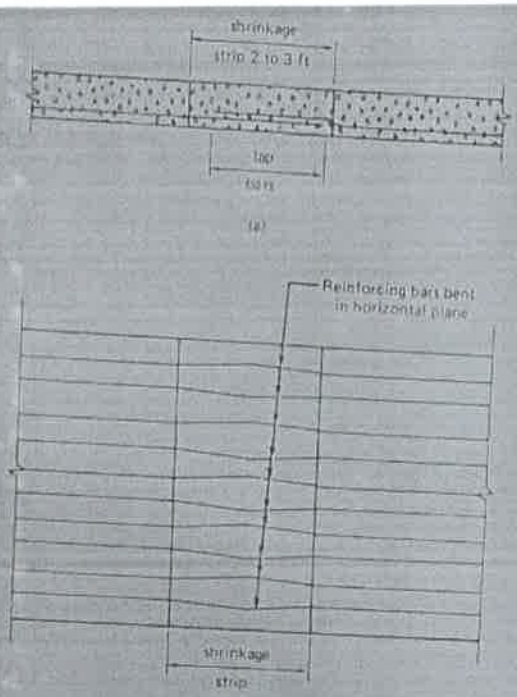


Fig. 4-12 Reinforcement details in shrinkage strips. (a) Section—lapped reinforcement, and (b) plan—bent reinforcement.

4.13 SPECIAL PURPOSE JOINTS

4.13.1 Elastic Control Joints

To improve the performance of control joints, the bond between reinforcement passing through the joint and the concrete can be eliminated for an appropriate length across the joint as shown in Fig. 4-13(a). This prevents yielding of the reinforcement in the vicinity of the joint (which might otherwise occur), and as a result the joint always remains elastic. The breaking of the bond can be achieved either by a paper wrapping, asphalt coating, plastic tubing, or other means. The length of bar over which bond should be eliminated is determined with due regard to the maximum joint opening, the maximum concrete temperature drop, and the yield strength of the bars. At the maximum joint opening, the bars should be stressed below their elastic limit. The maximum joint opening varies with joint spacing, other conditions being similar. The concrete temperature drop is the difference between the concrete temperature at time of set and the lowest temperature to which the concrete will be subjected.

Elastic control joints were first used in an experimental highway project in Indiana more than 40 years ago. In recent years these joints have been used experimentally in pavements in Sweden and Germany.

Table 4-1 illustrates the approximate relationship between concrete temperature drop, t, length of broken bond to joint spacing ratio, l/a, reinforcement ratio p, and steel stress at a joint, f_s.

4.13.2 Hinge Joints

Hinge joints permit rotation within a section, however, separation of the abutting units is limited by tie bars or the continuation of reinforcing steel across the joint. This type has wide usage in, but is not restricted to, pavements where longitudinal joints (Fig. 4-13(b)) function in this manner to overcome warping effects by forcing the same deflections on both sides of the joint due to wheel loads or settlement of the subgrade. The reinforcement usually yields in the vicinity of the joint if shrinkage and temperature drop forces are present.

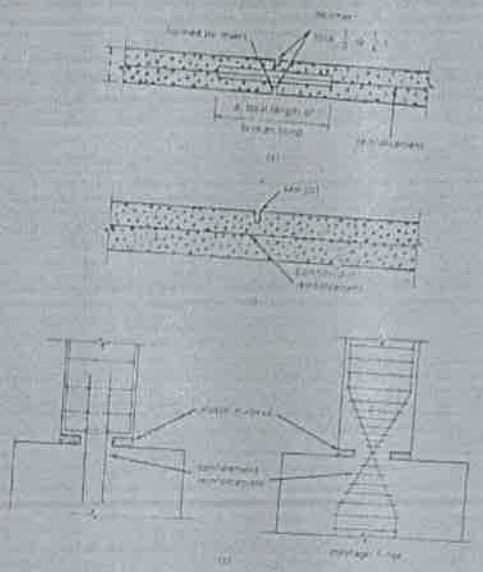


Fig. 4-13 Hinged joints. (a) Elastic control joint; (b) hinged joint in pavement; and (c) hinged joints in columns.

In structures, hinge joints in columns are often referred to as articulated joints and are arranged as shown in Fig. 4-13(c). Such joints are arranged to preclude a moment transfer between two elements, mostly between the foundation and column above. It is usually achieved when the section is substantially reduced by blocking out notches that are filled with an elastic, easily compressible material. The reinforcement through the joint can consist of parallel bars

TABLE 4-1 Stresses in Reinforcement of Elastic Joints

Temperature Drop, t (°F)	*Length of Broken Bond to Joint Spacing (c/a)*	*Reinforcing Ratio p*	*Steel Stress at Joint f_s in ksi*
25	0.50	0.01	9
		0.02	8
	0.25	0.01	15
		0.02	13
50	0.50	0.01	17
		0.02	15
	0.25	0.01	30
		0.02	26
100	0.50	0.01	34
		0.02	32
	0.25	0.01	60
		0.02	52

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16. CODES AND STANDARDS

All the designs are conforming to the relevant Indian Standards. Some of the relevant Indian Standard Codes, which have been followed for the structural designs, are given below.

Code	Description
IS:875 (Part-1)-1987	Code of Practice for Design Loads (Other than Earthquake) for Building and Structures-Unit Weights of Buildings Materials and Stored Material.
IS:875 (Part-2)-1987	Code of Practice for Design Loads (Other than Earthquake) for Building and Structures-Imposed loads
IS:875 (Part-3)-2015	Code of Practice for Design Loads (Other than Earthquake) for Buildings and Structures - Wind Load.
IS:875 (Part-5)-1987	Code of Practice for Design Loads (Other than Earthquake) for Buildings and Structures - Special Loads and Load Combinations
IS:456-2000	Code of Practice for Plain and Reinforced Concrete
IS:1893 (Part-1)-2016	Indian Standard Criteria for Earthquake Resistant Design of Structures
IS:432 (Part-1)-1982	Specification of Mild Steel and Medium Tensile Steel bars and Hard drawn Steel Wire for concrete reinforcement -Mild Steel and Medium Tensile Steel Bars
IS:432 (Part-2)-1982	Specification of Mild Steel and Medium Tensile Steel bars and Hard drawn Steel Wire for concrete reinforcement -Hard drawn Steel Wire.
IS:1786-1985	Specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement
IS:13920-2016	Ductile Detailing of reinforced concrete structures subjected to seismic forces - code of practice.
IS:1904	Indian Standard Code of practice for Design & Construction foundations in Soil: General Requirements.
IS:1642-1989	Indian Standard Code of practice for Fire Safety of Buildings (General): Details of Construction.
IS:3370-2009	Indian Standard Code of practice for Concrete Structures for Storage of Liquids.
IS:1343-1980	Indian Standard Code of practice for Pre-stressed Concrete.

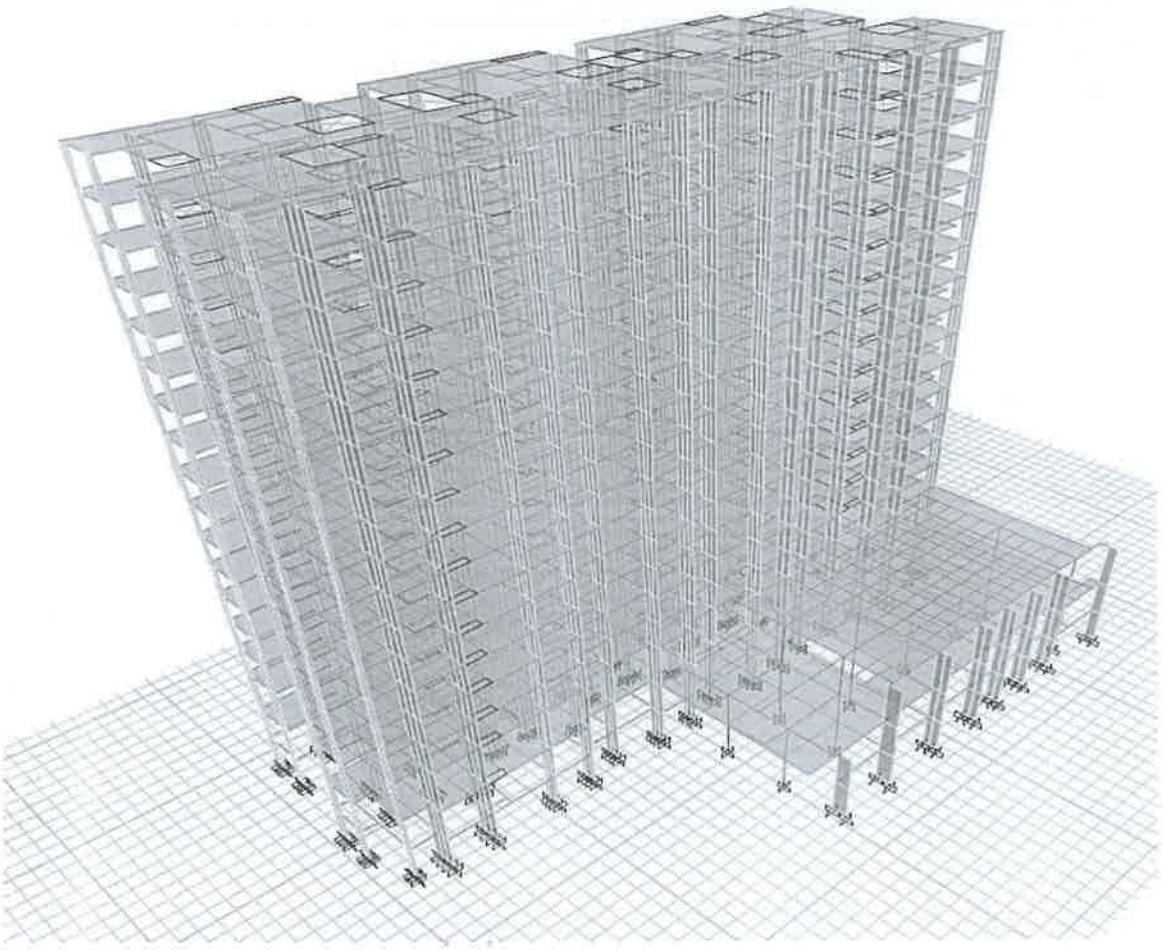
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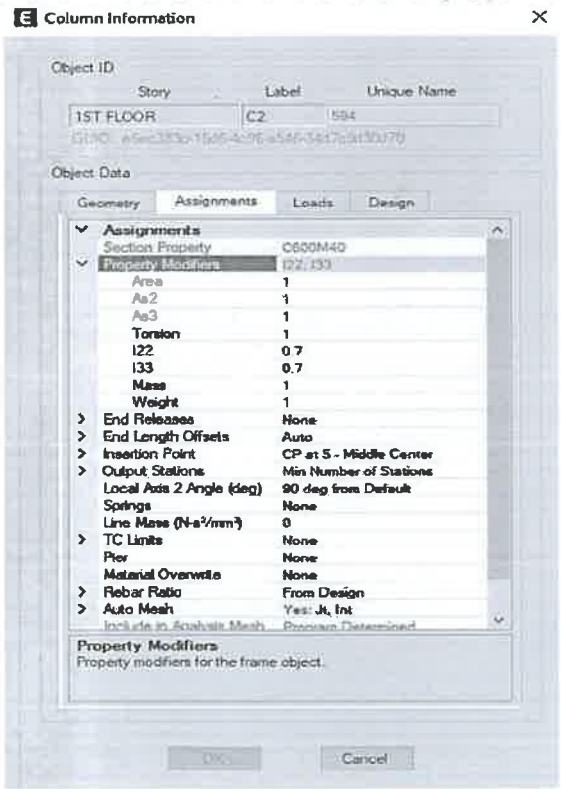
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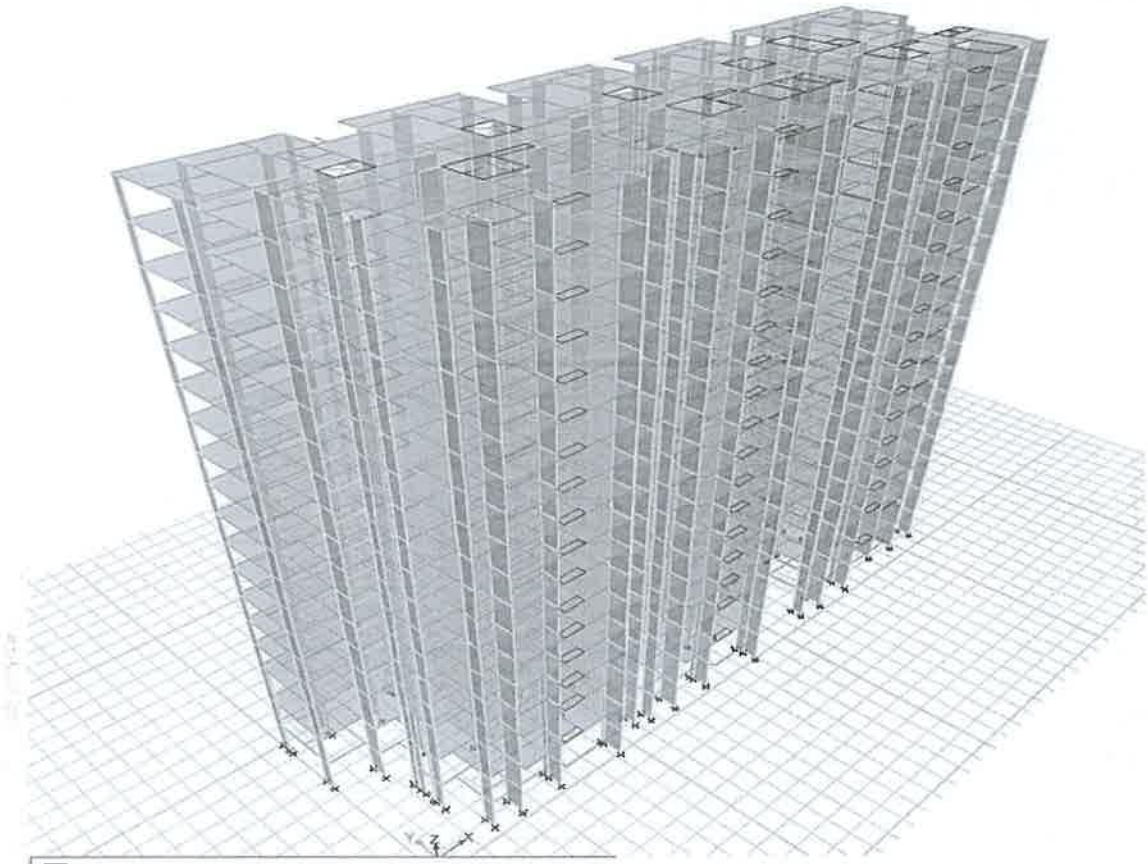
17. COLUM STIFFNESS MODIFIERS – Tower A

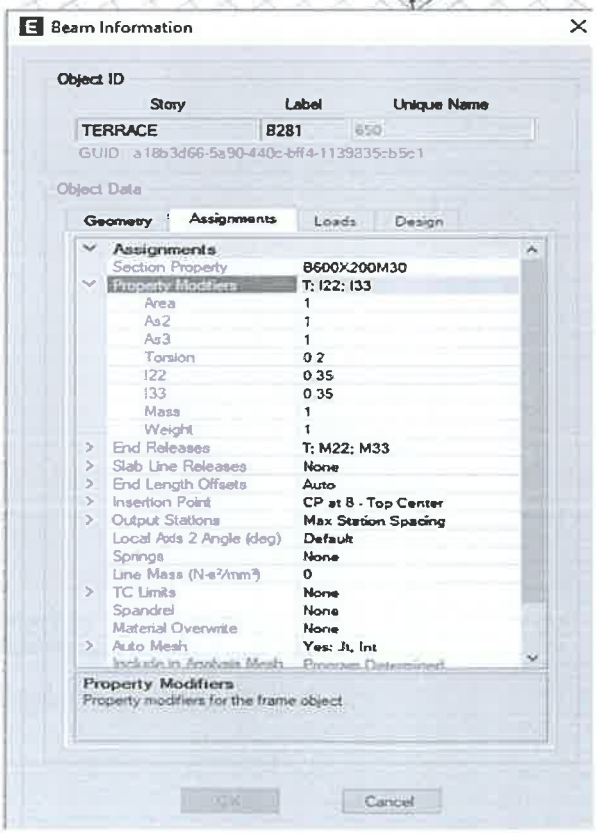




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18. BEAM STIFFNESS MODIFIERS – Tower B





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19. MODAL MASS PARTICIPATION RATIOS

As per IS1893 (Part1) :2016, In Buildings located in seismic Zone II and III, it should be ensured that the first three modes together contribute at least 65 percent mass participation factor in each principal plan direction.

Table Below show Modal Participating Mass Ratio of Proposed Building

TABLE: Modal Participating Mass Ratios Tower A								
Case	Mode	Period	UX	UY	SumUX	SumUY	RZ	SumRZ
		sec						
Modal	1	3.081	59.75%	1.21%	59.75%	1.21%	16.77%	16.77%
Modal	2	2.958	3.88%	64.15%	63.63%	65.36%	3.06%	19.83%
Modal	3	2.72	11.92%	4.45%	75.55%	69.82%	46.54%	66.37%
Modal	4	0.999	11.04%	0.00%	86.59%	69.82%	0.32%	66.69%
Modal	5	0.875	0.22%	10.26%	86.81%	80.07%	3.53%	70.22%
Modal	6	0.811	0.56%	4.40%	87.37%	84.48%	11.91%	82.13%
Modal	7	0.571	4.77%	0.00%	92.13%	84.48%	0.06%	82.19%
Modal	8	0.436	0.22%	1.79%	92.35%	86.27%	3.86%	86.05%
Modal	9	0.405	0.53%	4.21%	92.89%	90.48%	3.64%	89.68%
Modal	10	0.382	1.76%	0.33%	94.64%	90.80%	0.42%	90.11%
Modal	11	0.282	1.19%	0.09%	95.83%	90.89%	0.65%	90.76%
Modal	12	0.264	0.13%	0.89%	95.96%	91.78%	1.22%	91.98%
Modal	13	0.24	0.00%	2.21%	95.96%	93.98%	1.69%	93.67%
Modal	14	0.21	0.94%	0.02%	96.91%	94.00%	0.01%	93.68%
Modal	15	0.178	0.00%	0.65%	96.91%	94.65%	0.89%	94.57%
Modal	16	0.164	0.81%	0.01%	97.72%	94.66%	0.01%	94.58%
Modal	17	0.119	1.27%	0.01%	98.99%	94.67%	0.02%	94.60%
Modal	18	0.129	0.00%	3.08%	98.99%	97.75%	0.43%	95.04%

TABLE: Modal Participating Mass Ratios Tower B								
Case	Mode	Period	UX	UY	SumUX	SumUY	RZ	SumRZ
		sec						
Modal	1	3.286	69.80%	0.00%	69.80%	0.00%	7.27%	7.27%
Modal	2	3.128	0.56%	62.08%	70.36%	62.08%	4.19%	11.46%
Modal	3	2.996	4.91%	7.09%	75.27%	69.17%	54.75%	66.21%
Modal	4	1.076	11.73%	0.00%	87.00%	69.18%	0.00%	66.21%
Modal	5	0.913	0.08%	11.05%	87.09%	80.23%	2.23%	68.44%
Modal	6	0.876	0.15%	3.39%	87.24%	83.62%	13.29%	81.73%
Modal	7	0.615	4.93%	0.00%	92.17%	83.62%	0.17%	81.90%
Modal	8	0.466	0.13%	2.72%	92.30%	86.35%	2.85%	84.75%
Modal	9	0.429	0.69%	3.20%	92.99%	89.54%	4.07%	88.82%
Modal	10	0.41	1.64%	0.49%	94.63%	90.04%	0.72%	89.54%
Modal	11	0.301	1.05%	0.30%	95.68%	90.33%	0.83%	90.37%
Modal	12	0.287	0.27%	1.31%	95.94%	91.65%	0.84%	91.20%
Modal	13	0.252	0.00%	1.76%	95.94%	93.40%	2.09%	93.29%
Modal	14	0.222	0.93%	0.05%	96.88%	93.45%	0.01%	93.30%
Modal	15	0.196	0.01%	0.91%	96.89%	94.37%	0.83%	94.13%
Modal	16	0.173	0.79%	0.01%	97.68%	94.38%	0.04%	94.17%
Modal	17	0.125	1.29%	0.01%	98.97%	94.39%	0.00%	94.17%
Modal	18	0.134	0.00%	3.19%	98.97%	97.58%	0.25%	94.42%

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20. PERMISSIBLE DRIFT LIMITS (INTER-STOREY DRIFT):

As per IS1893 (Part1) :2016 & IS 16700: 2017, Storey drift in any storey due to minimum specified design seismic lateral force shall not exceed 0.004 times the storey height or hi/250.

TABLE: Story Drifts Tower A

Story	Output Case	Step Number	Direction	Drift	Drift Limit	Check
TERRACE	EQX	1	X	0.000818	0.004	Ok
TERRACE	EQX	2	X	0.000854	0.004	Ok
TERRACE	EQX	3	X	0.000783	0.004	Ok
TERRACE	EQY	1	Y	0.001524	0.004	Ok
TERRACE	EQY	2	Y	0.001792	0.004	Ok
TERRACE	EQY	3	Y	0.001692	0.004	Ok
16TH FLOOR	EQX	1	X	0.001056	0.004	Ok
16TH FLOOR	EQX	2	X	0.001095	0.004	Ok
16TH FLOOR	EQX	3	X	0.001018	0.004	Ok
16TH FLOOR	EQY	1	Y	0.001602	0.004	Ok
16TH FLOOR	EQY	2	Y	0.001889	0.004	Ok
16TH FLOOR	EQY	3	Y	0.001833	0.004	Ok
15TH FLOOR	EQX	1	X	0.00133	0.004	Ok
15TH FLOOR	EQX	2	X	0.001371	0.004	Ok
15TH FLOOR	EQX	3	X	0.001288	0.004	Ok
15TH FLOOR	EQY	1	Y	0.001708	0.004	Ok
15TH FLOOR	EQY	2	Y	0.002005	0.004	Ok
15TH FLOOR	EQY	3	Y	0.002008	0.004	Ok
14TH FLOOR	EQX	1	X	0.00159	0.004	Ok
14TH FLOOR	EQX	2	X	0.001635	0.004	Ok
14TH FLOOR	EQX	3	X	0.001546	0.004	Ok
14TH FLOOR	EQY	1	Y	0.001862	0.004	Ok
14TH FLOOR	EQY	2	Y	0.002138	0.004	Ok
14TH FLOOR	EQY	3	Y	0.002188	0.004	Ok
13TH FLOOR	EQX	1	X	0.001825	0.004	Ok
13TH FLOOR	EQX	2	X	0.001873	0.004	Ok
13TH FLOOR	EQX	3	X	0.001778	0.004	Ok
13TH FLOOR	EQY	1	Y	0.002006	0.004	Ok
13TH FLOOR	EQY	2	Y	0.002268	0.004	Ok
13TH FLOOR	EQY	3	Y	0.002358	0.004	Ok
12TH FLOOR	EQX	1	X	0.002031	0.004	Ok
12TH FLOOR	EQX	2	X	0.002081	0.004	Ok
12TH FLOOR	EQX	3	X	0.00198	0.004	Ok
12TH FLOOR	EQY	1	Y	0.002133	0.004	Ok
12TH FLOOR	EQY	2	Y	0.002387	0.004	Ok

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12TH FLOOR	EQY	3	Y	0.002507	0.004	Ok
11TH FLOOR	EQX	1	X	0.002206	0.004	Ok
11TH FLOOR	EQX	2	X	0.002259	0.004	Ok
11TH FLOOR	EQX	3	X	0.002154	0.004	Ok
11TH FLOOR	EQY	1	Y	0.002238	0.004	Ok
11TH FLOOR	EQY	2	Y	0.002487	0.004	Ok
11TH FLOOR	EQY	3	Y	0.00263	0.004	Ok
10TH FLOOR	EQX	1	X	0.002353	0.004	Ok
10TH FLOOR	EQX	2	X	0.002408	0.004	Ok
10TH FLOOR	EQX	3	X	0.002299	0.004	Ok
10TH FLOOR	EQY	1	Y	0.002317	0.004	Ok
10TH FLOOR	EQY	2	Y	0.00256	0.004	Ok
10TH FLOOR	EQY	3	Y	0.002723	0.004	Ok
9TH FLOOR	EQX	1	X	0.002472	0.004	Ok
9TH FLOOR	EQX	2	X	0.002527	0.004	Ok
9TH FLOOR	EQX	3	X	0.002417	0.004	Ok
9TH FLOOR	EQY	1	Y	0.002368	0.004	Ok
9TH FLOOR	EQY	2	Y	0.002602	0.004	Ok
9TH FLOOR	EQY	3	Y	0.002782	0.004	Ok
8TH FLOOR	EQX	1	X	0.002562	0.004	Ok
8TH FLOOR	EQX	2	X	0.002618	0.004	Ok
8TH FLOOR	EQX	3	X	0.002507	0.004	Ok
8TH FLOOR	EQY	1	Y	0.002388	0.004	Ok
8TH FLOOR	EQY	2	Y	0.002606	0.004	Ok
8TH FLOOR	EQY	3	Y	0.002805	0.004	Ok
7TH FLOOR	EQX	1	X	0.002616	0.004	Ok
7TH FLOOR	EQX	2	X	0.00267	0.004	Ok
7TH FLOOR	EQX	3	X	0.002561	0.004	Ok
7TH FLOOR	EQY	1	Y	0.002374	0.004	Ok
7TH FLOOR	EQY	2	Y	0.002566	0.004	Ok
7TH FLOOR	EQY	3	Y	0.002787	0.004	Ok
6TH FLOOR	EQX	1	X	0.002619	0.004	Ok
6TH FLOOR	EQX	2	X	0.002673	0.004	Ok
6TH FLOOR	EQX	3	X	0.002566	0.004	Ok
6TH FLOOR	EQY	1	Y	0.002325	0.004	Ok
6TH FLOOR	EQY	2	Y	0.002479	0.004	Ok
6TH FLOOR	EQY	3	Y	0.002727	0.004	Ok
5TH FLOOR	EQX	1	X	0.002626	0.004	Ok
5TH FLOOR	EQX	2	X	0.002677	0.004	Ok
5TH FLOOR	EQX	3	X	0.002575	0.004	Ok
5TH FLOOR	EQY	1	Y	0.002248	0.004	Ok
5TH FLOOR	EQY	2	Y	0.002349	0.004	Ok
5TH FLOOR	EQY	3	Y	0.002633	0.004	Ok
4TH FLOOR	EQX	1	X	0.002616	0.004	Ok
4TH FLOOR	EQX	2	X	0.002665	0.004	Ok

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4TH FLOOR	EQX	3	X	0.002567	0.004	Ok
4TH FLOOR	EQY	1	Y	0.002129	0.004	Ok
4TH FLOOR	EQY	2	Y	0.002161	0.004	Ok
4TH FLOOR	EQY	3	Y	0.002487	0.004	Ok
3RD FLOOR	EQX	1	X	0.002549	0.004	Ok
3RD FLOOR	EQX	2	X	0.002596	0.004	Ok
3RD FLOOR	EQX	3	X	0.002502	0.004	Ok
3RD FLOOR	EQY	1	Y	0.001959	0.004	Ok
3RD FLOOR	EQY	2	Y	0.001885	0.004	Ok
3RD FLOOR	EQY	3	Y	0.002278	0.004	Ok
2ND FLOOR	EQX	1	X	0.002234	0.004	Ok
2ND FLOOR	EQX	2	X	0.002276	0.004	Ok
2ND FLOOR	EQX	3	X	0.002192	0.004	Ok
2ND FLOOR	EQY	1	Y	0.001613	0.004	Ok
2ND FLOOR	EQY	2	Y	0.001458	0.004	Ok
2ND FLOOR	EQY	3	Y	0.001864	0.004	Ok
1ST FLOOR	EQX	1	X	0.001716	0.004	Ok
1ST FLOOR	EQX	2	X	0.001746	0.004	Ok
1ST FLOOR	EQX	3	X	0.001686	0.004	Ok
1ST FLOOR	EQY	1	Y	0.001099	0.004	Ok
1ST FLOOR	EQY	2	Y	0.000966	0.004	Ok
1ST FLOOR	EQY	3	Y	0.001268	0.004	Ok
STILT FLOOR	EQX	1	X	0.000746	0.004	Ok
STILT FLOOR	EQX	2	X	0.000757	0.004	Ok
STILT FLOOR	EQX	3	X	0.000735	0.004	Ok
STILT FLOOR	EQY	1	Y	0.000425	0.004	Ok
STILT FLOOR	EQY	2	Y	0.000363	0.004	Ok
STILT FLOOR	EQY	3	Y	0.000491	0.004	Ok

TABLE: Story Drifts Tower B

Story	Output Case	Step Number	Direction	Drift	Drift Limit	Check
TERRACE	EQX	1	X	0.000827	0.004	Ok
TERRACE	EQX	2	X	0.000794	0.004	Ok
TERRACE	EQX	3	X	0.000861	0.004	Ok
TERRACE	EQY	1	Y	0.002088	0.004	Ok
TERRACE	EQY	2	Y	0.002427	0.004	Ok
TERRACE	EQY	3	Y	0.00175	0.004	Ok
16TH FLOOR	EQX	1	X	0.001069	0.004	Ok
16TH FLOOR	EQX	2	X	0.001036	0.004	Ok
16TH FLOOR	EQX	3	X	0.001105	0.004	Ok
16TH FLOOR	EQY	1	Y	0.002173	0.004	Ok
16TH FLOOR	EQY	2	Y	0.00253	0.004	Ok

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16TH FLOOR	EQY	3	Y	0.001815	0.004	Ok
15TH FLOOR	EQX	1	X	0.001349	0.004	Ok
15TH FLOOR	EQX	2	X	0.001319	0.004	Ok
15TH FLOOR	EQX	3	X	0.001387	0.004	Ok
15TH FLOOR	EQY	1	Y	0.002275	0.004	Ok
15TH FLOOR	EQY	2	Y	0.002656	0.004	Ok
15TH FLOOR	EQY	3	Y	0.001895	0.004	Ok
14TH FLOOR	EQX	1	X	0.001617	0.004	Ok
14TH FLOOR	EQX	2	X	0.001591	0.004	Ok
14TH FLOOR	EQX	3	X	0.001659	0.004	Ok
14TH FLOOR	EQY	1	Y	0.002392	0.004	Ok
14TH FLOOR	EQY	2	Y	0.002797	0.004	Ok
14TH FLOOR	EQY	3	Y	0.0021	0.004	Ok
13TH FLOOR	EQX	1	X	0.00186	0.004	Ok
13TH FLOOR	EQX	2	X	0.001837	0.004	Ok
13TH FLOOR	EQX	3	X	0.001904	0.004	Ok
13TH FLOOR	EQY	1	Y	0.002506	0.004	Ok
13TH FLOOR	EQY	2	Y	0.002935	0.004	Ok
13TH FLOOR	EQY	3	Y	0.002324	0.004	Ok
12TH FLOOR	EQX	1	X	0.002072	0.004	Ok
12TH FLOOR	EQX	2	X	0.002052	0.004	Ok
12TH FLOOR	EQX	3	X	0.002118	0.004	Ok
12TH FLOOR	EQY	1	Y	0.002608	0.004	Ok
12TH FLOOR	EQY	2	Y	0.003058	0.004	Ok
12TH FLOOR	EQY	3	Y	0.002524	0.004	Ok
11TH FLOOR	EQX	1	X	0.002253	0.004	Ok
11TH FLOOR	EQX	2	X	0.002235	0.004	Ok
11TH FLOOR	EQX	3	X	0.002302	0.004	Ok
11TH FLOOR	EQY	1	Y	0.002689	0.004	Ok
11TH FLOOR	EQY	2	Y	0.003156	0.004	Ok
11TH FLOOR	EQY	3	Y	0.002692	0.004	Ok
10TH FLOOR	EQX	1	X	0.002405	0.004	Ok
10TH FLOOR	EQX	2	X	0.002388	0.004	Ok
10TH FLOOR	EQX	3	X	0.002455	0.004	Ok
10TH FLOOR	EQY	1	Y	0.002743	0.004	Ok
10TH FLOOR	EQY	2	Y	0.003221	0.004	Ok
10TH FLOOR	EQY	3	Y	0.002826	0.004	Ok
9TH FLOOR	EQX	1	X	0.002528	0.004	Ok
9TH FLOOR	EQX	2	X	0.00251	0.004	Ok
9TH FLOOR	EQX	3	X	0.002578	0.004	Ok
9TH FLOOR	EQY	1	Y	0.002764	0.004	Ok
9TH FLOOR	EQY	2	Y	0.003247	0.004	Ok
9TH FLOOR	EQY	3	Y	0.002922	0.004	Ok
8TH FLOOR	EQX	1	X	0.002621	0.004	Ok
8TH FLOOR	EQX	2	X	0.0026	0.004	Ok

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8TH FLOOR	EQX	3	X	0.002672	0.004	Ok
8TH FLOOR	EQY	1	Y	0.002746	0.004	Ok
8TH FLOOR	EQY	2	Y	0.003228	0.004	Ok
8TH FLOOR	EQY	3	Y	0.002974	0.004	Ok
7TH FLOOR	EQX	1	X	0.002677	0.004	Ok
7TH FLOOR	EQX	2	X	0.002649	0.004	Ok
7TH FLOOR	EQX	3	X	0.002727	0.004	Ok
7TH FLOOR	EQY	1	Y	0.002684	0.004	Ok
7TH FLOOR	EQY	2	Y	0.003156	0.004	Ok
7TH FLOOR	EQY	3	Y	0.002974	0.004	Ok
6TH FLOOR	EQX	1	X	0.002682	0.004	Ok
6TH FLOOR	EQX	2	X	0.002643	0.004	Ok
6TH FLOOR	EQX	3	X	0.00273	0.004	Ok
6TH FLOOR	EQY	1	Y	0.00258	0.004	Ok
6TH FLOOR	EQY	2	Y	0.003032	0.004	Ok
6TH FLOOR	EQY	3	Y	0.002906	0.004	Ok
5TH FLOOR	EQX	1	X	0.002686	0.004	Ok
5TH FLOOR	EQX	2	X	0.002639	0.004	Ok
5TH FLOOR	EQX	3	X	0.002732	0.004	Ok
5TH FLOOR	EQY	1	Y	0.002432	0.004	Ok
5TH FLOOR	EQY	2	Y	0.002858	0.004	Ok
5TH FLOOR	EQY	3	Y	0.002796	0.004	Ok
4TH FLOOR	EQX	1	X	0.002665	0.004	Ok
4TH FLOOR	EQX	2	X	0.002621	0.004	Ok
4TH FLOOR	EQX	3	X	0.002709	0.004	Ok
4TH FLOOR	EQY	1	Y	0.002229	0.004	Ok
4TH FLOOR	EQY	2	Y	0.002609	0.004	Ok
4TH FLOOR	EQY	3	Y	0.002638	0.004	Ok
3RD FLOOR	EQX	1	X	0.002584	0.004	Ok
3RD FLOOR	EQX	2	X	0.002542	0.004	Ok
3RD FLOOR	EQX	3	X	0.002626	0.004	Ok
3RD FLOOR	EQY	1	Y	0.002006	0.004	Ok
3RD FLOOR	EQY	2	Y	0.002268	0.004	Ok
3RD FLOOR	EQY	3	Y	0.002365	0.004	Ok
2ND FLOOR	EQX	1	X	0.002261	0.004	Ok
2ND FLOOR	EQX	2	X	0.002223	0.004	Ok
2ND FLOOR	EQX	3	X	0.002298	0.004	Ok
2ND FLOOR	EQY	1	Y	0.001555	0.004	Ok
2ND FLOOR	EQY	2	Y	0.001752	0.004	Ok
2ND FLOOR	EQY	3	Y	0.001827	0.004	Ok
1ST FLOOR	EQX	1	X	0.001699	0.004	Ok
1ST FLOOR	EQX	2	X	0.001674	0.004	Ok
1ST FLOOR	EQX	3	X	0.001724	0.004	Ok
1ST FLOOR	EQY	1	Y	0.000996	0.004	Ok
1ST FLOOR	EQY	2	Y	0.001155	0.004	Ok

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1ST FLOOR	EQY	3	Y	0.001163	0.004	Ok
STILT FLOOR	EQX	1	X	0.000752	0.004	Ok
STILT FLOOR	EQX	2	X	0.000743	0.004	Ok
STILT FLOOR	EQX	3	X	0.000761	0.004	Ok
STILT FLOOR	EQY	1	Y	0.000386	0.004	Ok
STILT FLOOR	EQY	2	Y	0.000437	0.004	Ok
STILT FLOOR	EQY	3	Y	0.000447	0.004	Ok

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21. LATERAL SWAY LIMITS (OVERALL DISPLACEMENT):

Lateral sway due to wind load should not exceed H/500 (H is the total height of structure).

TABLE: Story Max Displacements Tower A						
Story	Output Case	Direction	Maximum	H	H/500	Check
			mm	mm		
TERRACE	WLX	X	26.913	53500	107	Ok
16TH FLOOR	WLX	X	26.498	53500	107	Ok
15TH FLOOR	WLX	X	25.963	53500	107	Ok
14TH FLOOR	WLX	X	25.281	53500	107	Ok
13TH FLOOR	WLX	X	24.443	53500	107	Ok
12TH FLOOR	WLX	X	23.448	53500	107	Ok
11TH FLOOR	WLX	X	22.299	53500	107	Ok
10TH FLOOR	WLX	X	20.997	53500	107	Ok
9TH FLOOR	WLX	X	19.547	53500	107	Ok
8TH FLOOR	WLX	X	17.955	53500	107	Ok
7TH FLOOR	WLX	X	16.228	53500	107	Ok
6TH FLOOR	WLX	X	14.383	53500	107	Ok
5TH FLOOR	WLX	X	12.455	53500	107	Ok
4TH FLOOR	WLX	X	10.431	53500	107	Ok
3RD FLOOR	WLX	X	8.309	53500	107	Ok
2ND FLOOR	WLX	X	6.099	53500	107	Ok
1ST FLOOR	WLX	X	2.972	53500	107	Ok
STILT FLOOR	WLX	X	0.909	53500	107	Ok
TERRACE	WLY	Y	80.705	53500	107	Ok
16TH FLOOR	WLY	Y	77.825	53500	107	Ok
15TH FLOOR	WLY	Y	74.736	53500	107	Ok
14TH FLOOR	WLY	Y	71.369	53500	107	Ok
13TH FLOOR	WLY	Y	67.694	53500	107	Ok
12TH FLOOR	WLY	Y	63.701	53500	107	Ok
11TH FLOOR	WLY	Y	59.392	53500	107	Ok
10TH FLOOR	WLY	Y	54.783	53500	107	Ok
9TH FLOOR	WLY	Y	49.898	53500	107	Ok
8TH FLOOR	WLY	Y	44.77	53500	107	Ok
7TH FLOOR	WLY	Y	39.442	53500	107	Ok
6TH FLOOR	WLY	Y	33.972	53500	107	Ok
5TH FLOOR	WLY	Y	28.437	53500	107	Ok
4TH FLOOR	WLY	Y	22.897	53500	107	Ok
3RD FLOOR	WLY	Y	17.444	53500	107	Ok
2ND FLOOR	WLY	Y	12.19	53500	107	Ok
1ST FLOOR	WLY	Y	5.383	53500	107	Ok
STILT FLOOR	WLY	Y	1.495	53500	107	Ok

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TABLE: Story Max Displacements Tower B						
Story	Output Case	Direction	Maximum	H	H/500	Check
			mm	mm		
TERRACE	WLX	X	27.204	53500	107	Ok
16TH FLOOR	WLX	X	26.786	53500	107	Ok
15TH FLOOR	WLX	X	26.246	53500	107	Ok
14TH FLOOR	WLX	X	25.553	53500	107	Ok
13TH FLOOR	WLX	X	24.699	53500	107	Ok
12TH FLOOR	WLX	X	23.685	53500	107	Ok
11TH FLOOR	WLX	X	22.513	53500	107	Ok
10TH FLOOR	WLX	X	21.187	53500	107	Ok
9TH FLOOR	WLX	X	19.71	53500	107	Ok
8TH FLOOR	WLX	X	18.089	53500	107	Ok
7TH FLOOR	WLX	X	16.332	53500	107	Ok
6TH FLOOR	WLX	X	14.457	53500	107	Ok
5TH FLOOR	WLX	X	12.499	53500	107	Ok
4TH FLOOR	WLX	X	10.449	53500	107	Ok
3RD FLOOR	WLX	X	8.309	53500	107	Ok
2ND FLOOR	WLX	X	6.095	53500	107	Ok
1ST FLOOR	WLX	X	2.95	53500	107	Ok
STILT FLOOR	WLX	X	0.911	53500	107	Ok
TERRACE	WLY	Y	82.39	53500	107	Ok
16TH FLOOR	WLY	Y	78.767	53500	107	Ok
15TH FLOOR	WLY	Y	74.985	53500	107	Ok
14TH FLOOR	WLY	Y	70.994	53500	107	Ok
13TH FLOOR	WLY	Y	66.78	53500	107	Ok
12TH FLOOR	WLY	Y	63.111	53500	107	Ok
11TH FLOOR	WLY	Y	59.054	53500	107	Ok
10TH FLOOR	WLY	Y	54.623	53500	107	Ok
9TH FLOOR	WLY	Y	49.84	53500	107	Ok
8TH FLOOR	WLY	Y	44.736	53500	107	Ok
7TH FLOOR	WLY	Y	39.354	53500	107	Ok
6TH FLOOR	WLY	Y	33.757	53500	107	Ok
5TH FLOOR	WLY	Y	28.059	53500	107	Ok
4TH FLOOR	WLY	Y	22.341	53500	107	Ok
3RD FLOOR	WLY	Y	16.7	53500	107	Ok
2ND FLOOR	WLY	Y	11.379	53500	107	Ok
1ST FLOOR	WLY	Y	4.85	53500	107	Ok
STILT FLOOR	WLY	Y	1.339	53500	107	Ok

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22. STOREY STIFFNESS & STRENGTH (SOFT STOREY CHECK):

As PER 16700: 2017 Parameters influencing stiffness and strength of the building should be so proportioned, that the following are maintained:

a) Lateral translational stiffness of any storey shall not be less than 70 percent of that of the storey above.

b) Lateral translational strength of any storey shall not be less than that of the storey above.

TABLE: Story Stiffness Tower A

Story	Output Case	Stiff X	Stiff Y	Stiff W.R. T	Required	Check
		kN/m	kN/m	storey above		
TERRACE	EQX	287462.125	0			
16TH FLOOR	EQX	416002.427	0	144.72%	70.00%	Ok
15TH FLOOR	EQX	463886.129	0	111.51%	70.00%	Ok
14TH FLOOR	EQX	485730.595	0	104.71%	70.00%	Ok
13TH FLOOR	EQX	497878.757	0	102.50%	70.00%	Ok
12TH FLOOR	EQX	505762.439	0	101.58%	70.00%	Ok
11TH FLOOR	EQX	511590.312	0	101.15%	70.00%	Ok
10TH FLOOR	EQX	516443.568	0	100.95%	70.00%	Ok
9TH FLOOR	EQX	521064.539	0	100.89%	70.00%	Ok
8TH FLOOR	EQX	526176.809	0	100.98%	70.00%	Ok
7TH FLOOR	EQX	534291.103	0	101.54%	70.00%	Ok
6TH FLOOR	EQX	548921.63	0	102.74%	70.00%	Ok
5TH FLOOR	EQX	559717.839	0	101.97%	70.00%	Ok
4TH FLOOR	EQX	572125.852	0	102.22%	70.00%	Ok
3RD FLOOR	EQX	597799.622	0	104.49%	70.00%	Ok
2ND FLOOR	EQX	493080.822	0	82.48%	70.00%	Ok
1ST FLOOR	EQX	809362.259	0	164.14%	70.00%	Ok
STILT FLOOR	EQX	1920915.189	0	237.34%	70.00%	Ok
TERRACE	EQY	0	127971.92			
16TH FLOOR	EQY	0	228511.698	178.56%	70.00%	Ok
15TH FLOOR	EQY	0	301938.585	132.13%	70.00%	Ok
14TH FLOOR	EQY	0	354145.14	117.29%	70.00%	Ok
13TH FLOOR	EQY	0	392004.853	110.69%	70.00%	Ok
12TH FLOOR	EQY	0	420532.761	107.28%	70.00%	Ok
11TH FLOOR	EQY	0	443453.994	105.45%	70.00%	Ok
10TH FLOOR	EQY	0	463448.175	104.51%	70.00%	Ok
9TH FLOOR	EQY	0	482670.342	104.15%	70.00%	Ok
8TH FLOOR	EQY	0	503081.978	104.23%	70.00%	Ok
7TH FLOOR	EQY	0	526995.119	104.75%	70.00%	Ok
6TH FLOOR	EQY	0	556823.688	105.66%	70.00%	Ok
5TH FLOOR	EQY	0	593477.77	106.58%	70.00%	Ok
4TH FLOOR	EQY	0	644611.889	108.62%	70.00%	Ok
3RD FLOOR	EQY	0	724850.517	112.45%	70.00%	Ok
2ND FLOOR	EQY	0	611757.632	84.40%	70.00%	Ok
1ST FLOOR	EQY	0	1141487.655	186.59%	70.00%	Ok
STILT FLOOR	EQY	0	3120046.39	273.33%	70.00%	Ok

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TABLE: Story Stiffness Tower B						
Story	Output Case	Stiff X	Stiff Y	Stiff W.R. T	Required	Check_
		kN/m	kN/m	storey above		
TERRACE	EQX	237727.447	0			
16TH FLOOR	EQX	351556.391	0	147.88%	70.00%	Ok
15TH FLOOR	EQX	395327.876	0	112.45%	70.00%	Ok
14TH FLOOR	EQX	415538.751	0	105.11%	70.00%	Ok
13TH FLOOR	EQX	426752.711	0	102.70%	70.00%	Ok
12TH FLOOR	EQX	434066.352	0	101.71%	70.00%	Ok
11TH FLOOR	EQX	439495.413	0	101.25%	70.00%	Ok
10TH FLOOR	EQX	444025.582	0	101.03%	70.00%	Ok
9TH FLOOR	EQX	448322.878	0	100.97%	70.00%	Ok
8TH FLOOR	EQX	453037.375	0	101.05%	70.00%	Ok
7TH FLOOR	EQX	460279.357	0	101.60%	70.00%	Ok
6TH FLOOR	EQX	473067.848	0	102.78%	70.00%	Ok
5TH FLOOR	EQX	483607.34	0	102.23%	70.00%	Ok
4TH FLOOR	EQX	496855.191	0	102.74%	70.00%	Ok
3RD FLOOR	EQX	522139.224	0	105.09%	70.00%	Ok
2ND FLOOR	EQX	423636.1	0	81.13%	70.00%	Ok
1ST FLOOR	EQX	705685.977	0	166.58%	70.00%	Ok
STILT FLOOR	EQX	1625231.18	0	230.31%	70.00%	Ok
TERRACE	EQY	0	116745.461			
16TH FLOOR	EQY	0	208984.71	179.01%	70.00%	Ok
15TH FLOOR	EQY	0	274492.854	131.35%	70.00%	Ok
14TH FLOOR	EQY	0	320050.756	116.60%	70.00%	Ok
13TH FLOOR	EQY	0	352542.782	110.15%	70.00%	Ok
12TH FLOOR	EQY	0	376792.994	106.88%	70.00%	Ok
11TH FLOOR	EQY	0	396200.489	105.15%	70.00%	Ok
10TH FLOOR	EQY	0	413157.905	104.28%	70.00%	Ok
9TH FLOOR	EQY	0	429589.474	103.98%	70.00%	Ok
8TH FLOOR	EQY	0	447340.429	104.13%	70.00%	Ok
7TH FLOOR	EQY	0	468804.819	104.80%	70.00%	Ok
6TH FLOOR	EQY	0	496852.216	105.98%	70.00%	Ok
5TH FLOOR	EQY	0	531924.59	107.06%	70.00%	Ok
4TH FLOOR	EQY	0	581200.191	109.26%	70.00%	Ok
3RD FLOOR	EQY	0	663269.871	114.12%	70.00%	Ok
2ND FLOOR	EQY	0	576683.16	86.95%	70.00%	Ok
1ST FLOOR	EQY	0	1114606.376	193.28%	70.00%	Ok
STILT FLOOR	EQY	0	3070994.149	275.52%	70.00%	Ok

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23. TORSIONAL IRREGULARITY CHECK:

As per 1893: 2016 In torsionally irregular buildings, When the ratio of maximum horizontal displacement and the average horizontal displacement at the ends is,
(i) In the range 1.0-1.2

TABLE: Joint Displacements X Tower A

Story	Label	Unique Name	Output Case	Ux	Uy	Avg UX	MaxUX/ AvgUX		Limit	Check
				mm	mm	mm				
TERRACE	31	1798	EQX	102.82	14.34	107.69	1.047	<	1.2	OK
TERRACE	422	1674	EQX	112.56	14.49					
16TH FLOOR	639	2371	EQX	100.78	13.72	105.44	1.046	<	1.2	OK
16TH FLOOR	253	2790	EQX	110.10	13.87					
15TH FLOOR	639	2726	EQX	98.04	13.09	102.49	1.045	<	1.2	OK
15TH FLOOR	253	3145	EQX	106.94	13.22					
14TH FLOOR	639	3081	EQX	94.50	12.44	98.72	1.045	<	1.2	OK
14TH FLOOR	253	3500	EQX	102.95	12.57					
13TH FLOOR	639	3436	EQX	90.18	11.78	94.18	1.044	<	1.2	OK
13TH FLOOR	253	3855	EQX	98.18	11.90					
12TH FLOOR	639	3791	EQX	85.18	11.10	88.94	1.044	<	1.2	OK
12TH FLOOR	253	4210	EQX	92.71	11.22					
11TH FLOOR	639	4146	EQX	79.56	10.42	83.09	1.044	<	1.2	OK
11TH FLOOR	253	4565	EQX	86.62	10.53					
10TH FLOOR	639	4501	EQX	73.43	9.74	76.72	1.045	<	1.2	OK
10TH FLOOR	253	4920	EQX	80.00	9.84					
9TH FLOOR	639	4856	EQX	66.87	9.04	69.91	1.045	<	1.2	OK
9TH FLOOR	253	5275	EQX	72.95	9.14					
8TH FLOOR	639	5211	EQX	59.96	8.35	62.75	1.046	<	1.2	OK
8TH FLOOR	253	5630	EQX	65.53	8.44					
7TH FLOOR	639	5566	EQX	52.78	7.65	55.32	1.048	<	1.2	OK
7TH FLOOR	253	5985	EQX	57.85	7.73					
6TH FLOOR	639	5921	EQX	45.46	6.94	47.73	1.050	<	1.2	OK
6TH FLOOR	253	6340	EQX	50.01	7.01					
5TH FLOOR	639	6276	EQX	38.14	6.20	40.15	1.053	<	1.2	OK
5TH FLOOR	253	937	EQX	42.15	6.26					
4TH FLOOR	639	838	EQX	30.82	5.42	32.55	1.056	<	1.2	OK
4TH FLOOR	253	533	EQX	34.28	5.47					
3RD FLOOR	639	548	EQX	23.58	4.54	25.01	1.060	<	1.2	OK
3RD FLOOR	253	156	EQX	26.43	4.59					
2ND FLOOR	639	273	EQX	16.64	3.47	17.72	1.065	<	1.2	OK
2ND FLOOR	253	6440	EQX	18.79	3.51					
1ST FLOOR	639	6510	EQX	7.74	1.64	8.24	1.065	<	1.2	OK
1ST FLOOR	639	6510	EQX	8.75	1.66					
STILT FLOOR	639	6510	EQX	2.30	0.45	2.43	1.060	<	1.2	OK
STILT FLOOR	639	6510	EQX	2.57	0.46					

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TABLE: Joint Displacements Y Tower A										
Story	Label	Unique Name	Output Case	Ux	Uy	Avg UX	MaxUX/ AvgUX		Limit	Check
				mm	mm	mm				
TERRACE	614	1611	EQY	0.821	96.34	100.998	1.046	<	1.2	OK
TERRACE	639	1559	EQY	1.074	105.66					
16TH FLOOR	614	2053	EQY	0.873	91.783	96.561	1.049	<	1.2	OK
16TH FLOOR	639	2016	EQY	1.132	101.34					
15TH FLOOR	614	2408	EQY	0.91	86.983	91.823	1.053	<	1.2	OK
15TH FLOOR	639	2371	EQY	1.172	96.663					
14TH FLOOR	614	2763	EQY	0.928	81.892	86.7155	1.056	<	1.2	OK
14TH FLOOR	639	2726	EQY	1.189	91.539					
13TH FLOOR	614	3118	EQY	0.934	76.468	81.2125	1.058	<	1.2	OK
13TH FLOOR	639	3081	EQY	1.191	85.957					
12TH FLOOR	614	3473	EQY	0.931	70.716	75.3295	1.061	<	1.2	OK
12TH FLOOR	639	3436	EQY	1.18	79.943					
11TH FLOOR	614	3828	EQY	0.922	64.665	69.107	1.064	<	1.2	OK
11TH FLOOR	639	3791	EQY	1.163	73.549					
10TH FLOOR	614	4183	EQY	0.911	58.363	62.603	1.068	<	1.2	OK
10TH FLOOR	639	4146	EQY	1.14	66.843					
9TH FLOOR	614	4538	EQY	0.898	51.877	55.8885	1.072	<	1.2	OK
9TH FLOOR	639	4501	EQY	1.115	59.9					
8TH FLOOR	614	4893	EQY	0.883	45.286	49.046	1.077	<	1.2	OK
8TH FLOOR	639	4856	EQY	1.087	52.806					
7TH FLOOR	614	5248	EQY	0.866	38.684	42.1685	1.083	<	1.2	OK
7TH FLOOR	639	5211	EQY	1.054	45.653					
6TH FLOOR	614	5603	EQY	0.842	32.18	35.361	1.090	<	1.2	OK
6TH FLOOR	639	5566	EQY	1.014	38.542					
5TH FLOOR	614	5958	EQY	0.808	25.895	28.7375	1.099	<	1.2	OK
5TH FLOOR	639	5921	EQY	0.962	31.58					
4TH FLOOR	614	6313	EQY	0.757	19.934	22.393	1.110	<	1.2	OK
4TH FLOOR	639	6276	EQY	0.89	24.852					
3RD FLOOR	614	890	EQY	0.679	14.442	16.462	1.123	<	1.2	OK
3RD FLOOR	639	838	EQY	0.788	18.482					
2ND FLOOR	614	617	EQY	0.549	9.636	11.1305	1.134	<	1.2	OK
2ND FLOOR	639	548	EQY	0.63	12.625					
1ST FLOOR	614	195	EQY	0.276	4.041	4.7195	1.144	<	1.2	OK
1ST FLOOR	639	273	EQY	0.312	5.398					
STILT FLOOR	614	6468	EQY	0.082	1.07	1.265	1.154	<	1.2	OK
STILT FLOOR	639	6510	EQY	0.092	1.46					

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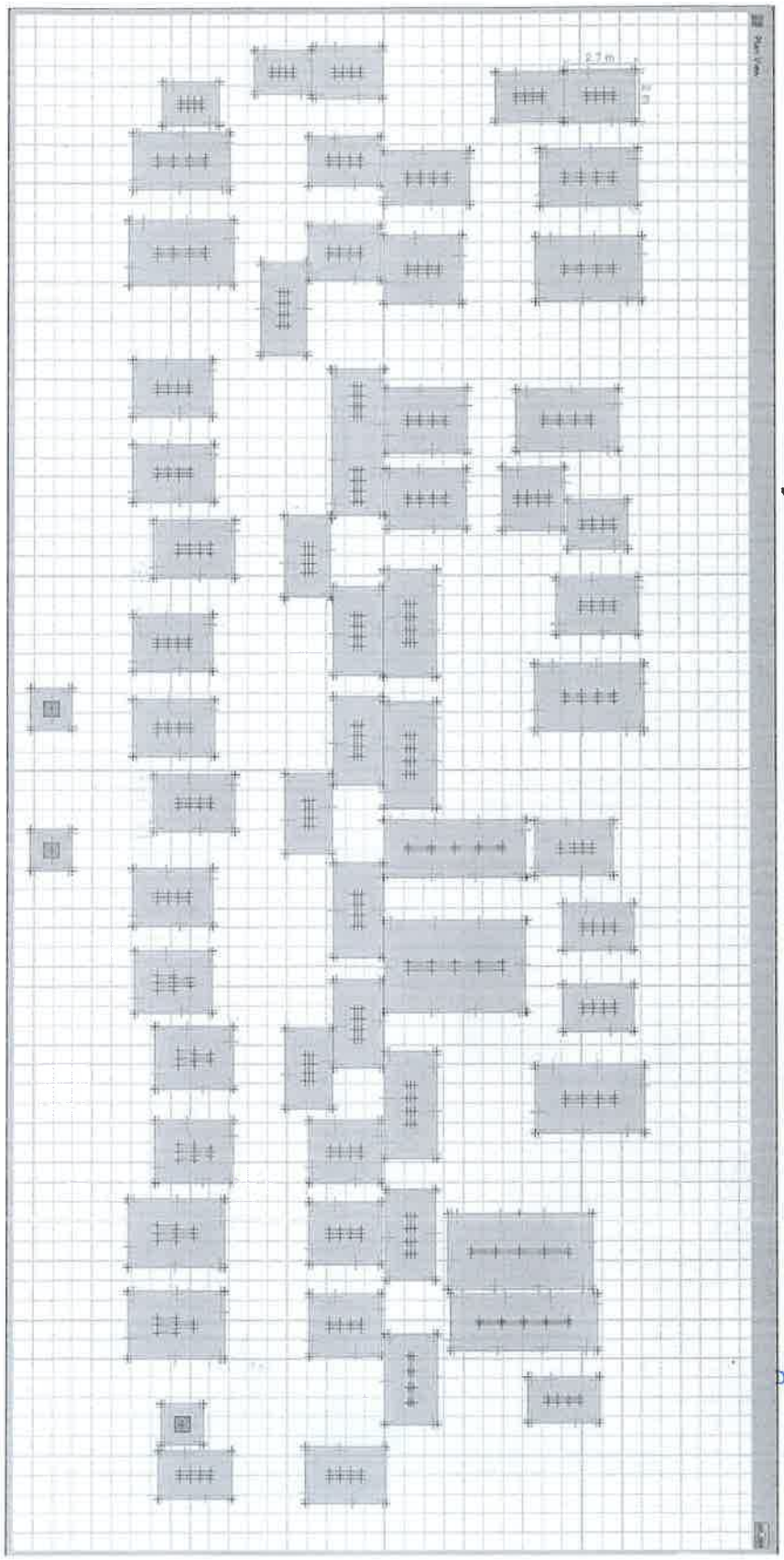
TABLE: Joint Displacements X Tower B										
Story	Label	Unique Name	Output Case	Ux	Uy	Avg UX	MaxUX/ AvgUX		Limit	Check
				mm	mm	mm				
TERRACE	31	1798	EQX	114.28	-6.96	111.95	1.021	<	1.2	OK
TERRACE	422	1674	EQX	109.62	-8.46					
16TH FLOOR	31	2238	EQX	111.81	-6.77	109.57	1.020	<	1.2	OK
16TH FLOOR	422	2162	EQX	107.32	-8.21					
15TH FLOOR	31	2609	EQX	108.62	-6.56	106.46	1.020	<	1.2	OK
15TH FLOOR	422	2533	EQX	104.31	-7.94					
14TH FLOOR	31	2980	EQX	104.58	-6.36	102.51	1.020	<	1.2	OK
14TH FLOOR	422	2904	EQX	100.45	-7.68					
13TH FLOOR	31	3351	EQX	99.74	-6.14	97.76	1.020	<	1.2	OK
13TH FLOOR	422	3275	EQX	95.78	-7.41					
12TH FLOOR	31	3722	EQX	94.17	-5.92	92.28	1.021	<	1.2	OK
12TH FLOOR	422	3646	EQX	90.38	-7.13					
11TH FLOOR	31	4093	EQX	87.96	-5.70	86.16	1.021	<	1.2	OK
11TH FLOOR	422	4017	EQX	84.35	-6.85					
10TH FLOOR	31	4464	EQX	81.21	-5.46	79.49	1.022	<	1.2	OK
10TH FLOOR	422	4388	EQX	77.77	-6.56					
9TH FLOOR	31	4835	EQX	74.01	-5.22	72.37	1.023	<	1.2	OK
9TH FLOOR	422	4759	EQX	70.74	-6.27					
8TH FLOOR	31	5206	EQX	66.44	-4.96	64.89	1.024	<	1.2	OK
8TH FLOOR	422	5130	EQX	63.34	-5.95					
7TH FLOOR	31	5577	EQX	58.59	-4.68	57.13	1.026	<	1.2	OK
7TH FLOOR	422	5501	EQX	55.67	-5.62					
6TH FLOOR	31	5948	EQX	50.57	-4.38	49.21	1.028	<	1.2	OK
6TH FLOOR	422	5872	EQX	47.86	-5.24					
5TH FLOOR	31	6319	EQX	42.54	-4.02	41.29	1.030	<	1.2	OK
5TH FLOOR	422	6243	EQX	40.05	-4.81					
4TH FLOOR	31	6690	EQX	34.50	-3.59	33.39	1.033	<	1.2	OK
4TH FLOOR	422	6614	EQX	32.28	-4.29					
3RD FLOOR	31	1023	EQX	26.52	-3.04	25.58	1.037	<	1.2	OK
3RD FLOOR	422	899	EQX	24.65	-3.64					
2ND FLOOR	31	577	EQX	18.80	-2.28	18.08	1.039	<	1.2	OK
2ND FLOOR	422	594	EQX	17.37	-2.74					
1ST FLOOR	31	261	EQX	8.67	-0.97	8.37	1.037	<	1.2	OK
1ST FLOOR	422	249	EQX	8.06	-1.17					
STILT FLOOR	31	6854	EQX	2.59	-0.23	2.51	1.028	<	1.2	OK
STILT FLOOR	422	6847	EQX	2.44	-0.27					

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TABLE: Joint Displacements Y Tower B										
Story	Label	Unique Name	Output Case	Ux	Uy	Avg UX	MaxUX/ AvgUX		Limit	Check
				mm	mm	mm				
TERRACE	413	1726	EQY	-2.82	122.04	113.04	1.080	<	1.2	OK
TERRACE	422	1674	EQY	-3.09	104.04					
16TH FLOOR	413	2191	EQY	-2.49	115.77	108.18	1.070	<	1.2	OK
16TH FLOOR	422	2162	EQY	-2.72	100.60					
15TH FLOOR	413	2562	EQY	-2.18	109.25	102.96	1.061	<	1.2	OK
15TH FLOOR	422	2533	EQY	-2.37	96.67					
14TH FLOOR	413	2933	EQY	-1.90	102.43	97.28	1.053	<	1.2	OK
14TH FLOOR	422	2904	EQY	-2.06	92.13					
13TH FLOOR	413	3304	EQY	-1.65	95.25	91.11	1.045	<	1.2	OK
13TH FLOOR	422	3275	EQY	-1.77	86.97					
12TH FLOOR	413	3675	EQY	-1.42	87.73	84.48	1.039	<	1.2	OK
12TH FLOOR	422	3646	EQY	-1.52	81.22					
11TH FLOOR	413	4046	EQY	-1.21	79.91	77.44	1.032	<	1.2	OK
11TH FLOOR	422	4017	EQY	-1.28	74.96					
10TH FLOOR	413	4417	EQY	-1.01	71.84	70.05	1.026	<	1.2	OK
10TH FLOOR	422	4388	EQY	-1.06	68.26					
9TH FLOOR	413	4788	EQY	-0.83	63.61	62.41	1.019	<	1.2	OK
9TH FLOOR	422	4759	EQY	-0.87	61.20					
8TH FLOOR	413	5159	EQY	-0.67	55.32	54.61	1.013	<	1.2	OK
8TH FLOOR	422	5130	EQY	-0.69	53.89					
7TH FLOOR	413	5530	EQY	-0.53	47.09	46.76	1.007	<	1.2	OK
7TH FLOOR	422	5501	EQY	-0.54	46.43					
6TH FLOOR	413	5901	EQY	-0.40	39.03	38.99	1.001	<	1.2	OK
6TH FLOOR	422	5872	EQY	-0.40	38.95					
5TH FLOOR	413	6272	EQY	-0.29	31.30	31.46	1.005	<	1.2	OK
5TH FLOOR	422	6243	EQY	-0.28	31.63					
4TH FLOOR	413	6643	EQY	-0.19	24.00	24.28	1.012	<	1.2	OK
4TH FLOOR	422	6614	EQY	-0.18	24.56					
3RD FLOOR	413	951	EQY	-0.13	17.35	17.61	1.015	<	1.2	OK
3RD FLOOR	422	899	EQY	-0.12	17.88					
2ND FLOOR	413	693	EQY	-0.09	11.56	11.71	1.013	<	1.2	OK
2ND FLOOR	422	594	EQY	-0.09	11.86					
1ST FLOOR	413	233	EQY	-0.04	4.84	4.85	1.003	<	1.2	OK
1ST FLOOR	422	249	EQY	-0.04	4.87					
STILT FLOOR	413	6840	EQY	-0.01	1.28	1.30	1.009	<	1.2	OK
STILT FLOOR	422	6847	EQY	0.00	1.31					

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24.1 SAFE (Foundation)
Tower A Safe Model (Version 16)

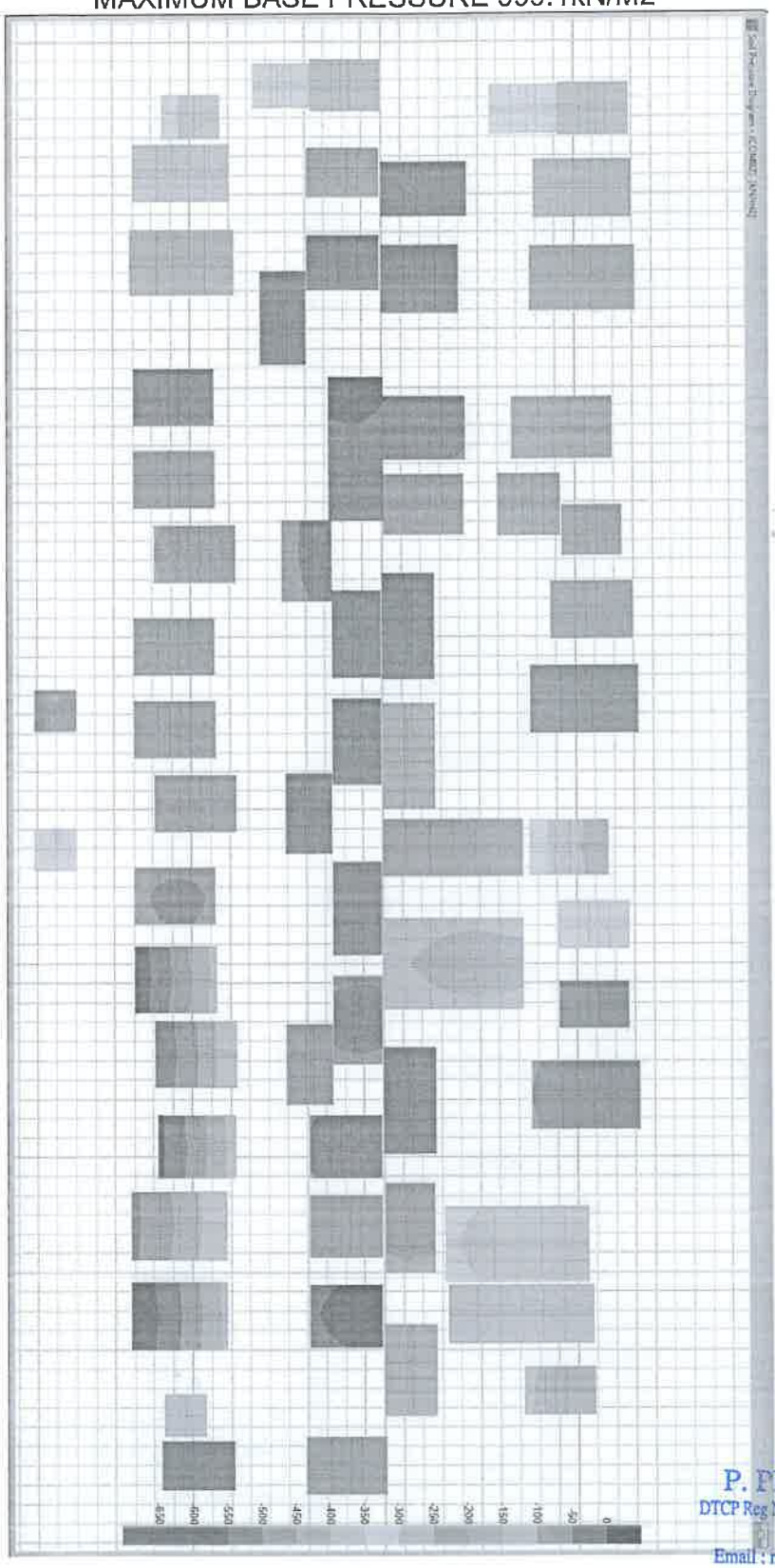


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24.2 File Heat Map : Tower A

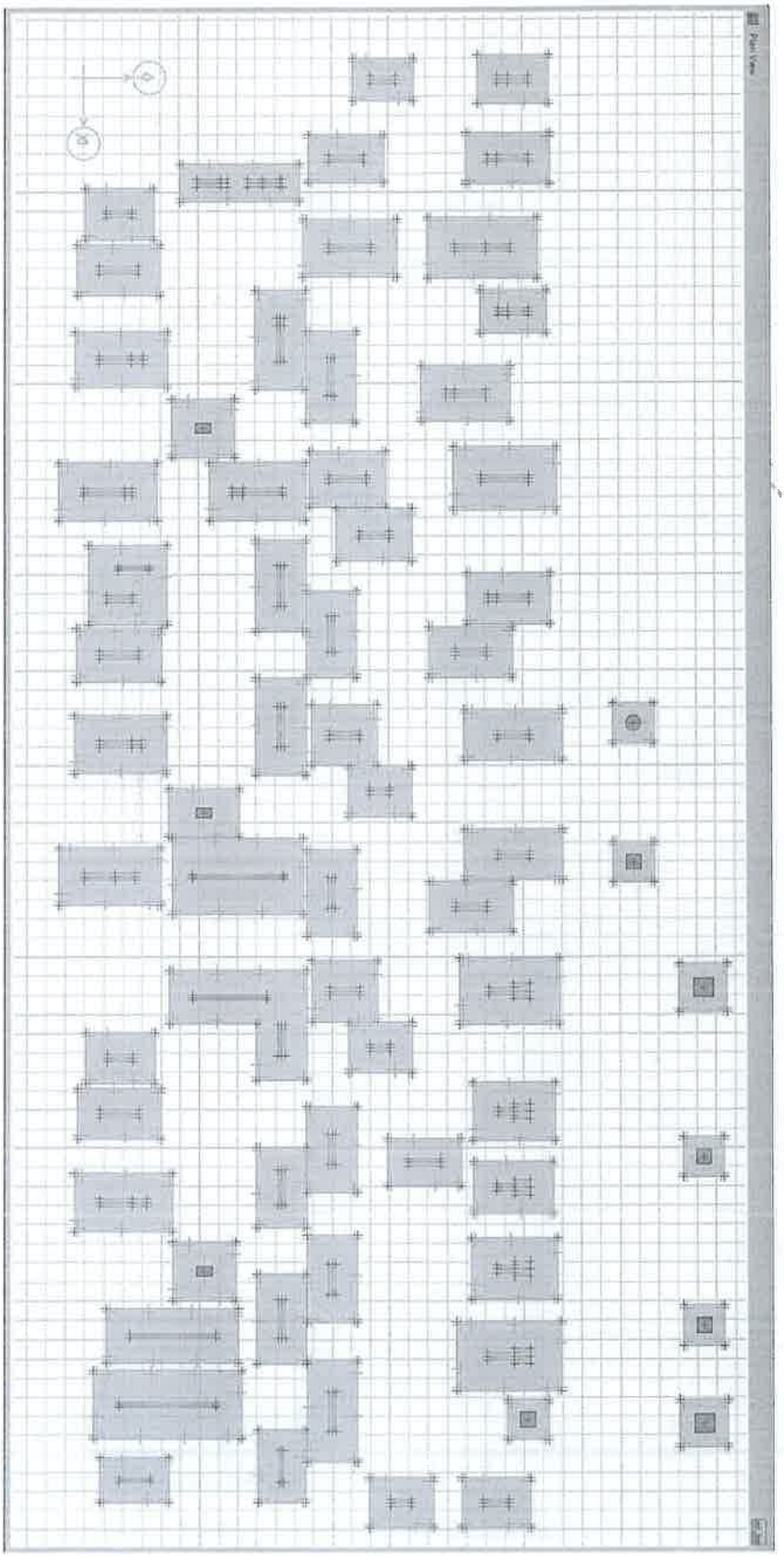
SBC 600kN/M2

MAXIMUM BASE PRESSURE 599.1kN/M2



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24.3 SAFE (Foundation)
Tower B Safe Model (Version 16)

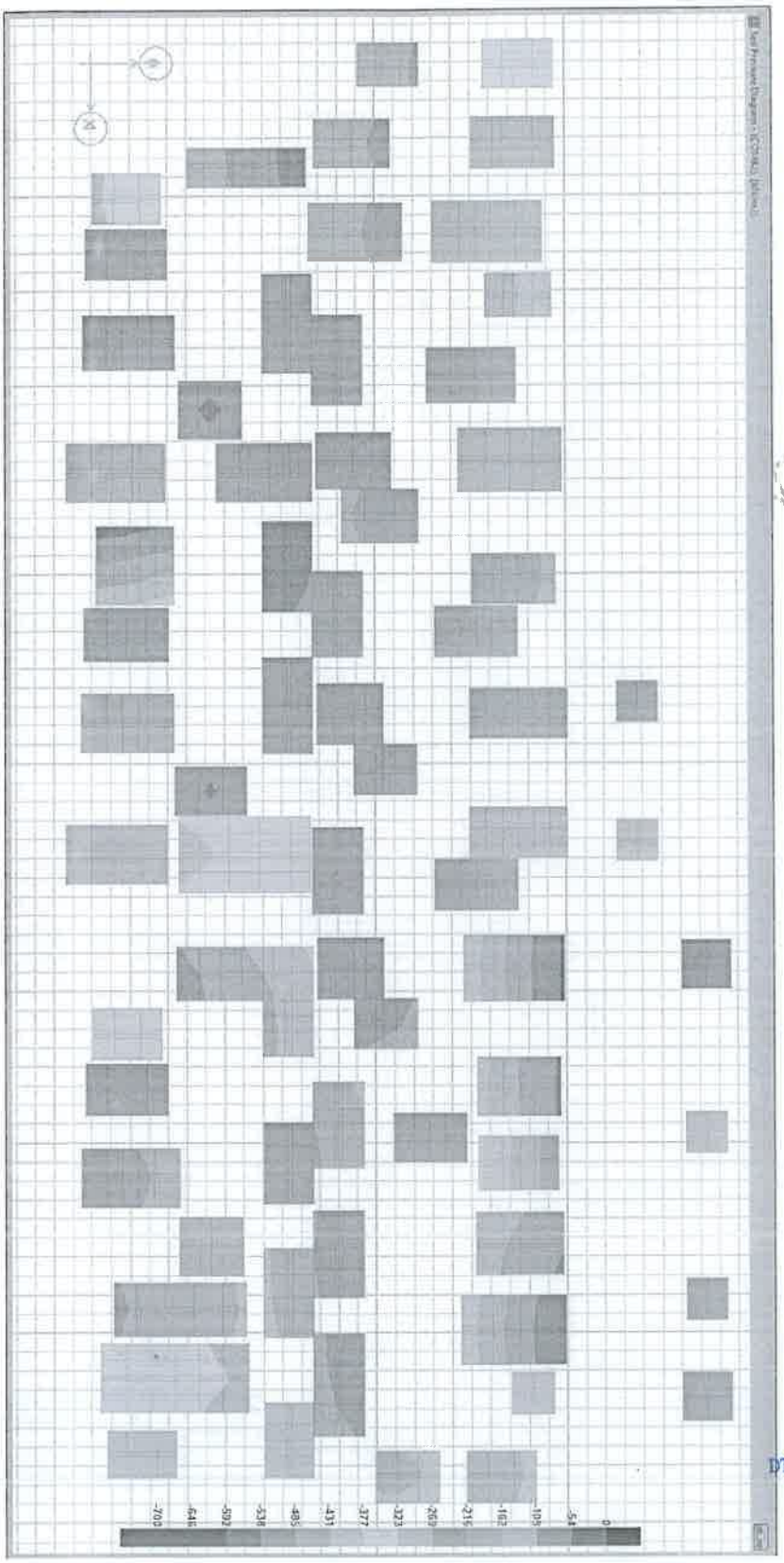


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24.2 File Heat Map : Tower B

SBC 600kN/M2

MAXIMUM BASE PRESSURE 598.5kN/M2



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25 SHEAR WALL DESIGN :

TABLE: Shear Wall Pier Design Summary - IS 456 2000 Tower A							
Story	Pier Label	Required Reinf. Percentage	Length	Thickness	B Zone Left	B Zone Right	Warnings
		%	mm	mm	mm	mm	
TERRACE	PW1	0.68	1000	200			No Message
16TH FLOOR	PW1	0.57	1000	200			No Message
15TH FLOOR	PW1	0.57	1000	200			No Message
14TH FLOOR	PW1	0.54	1000	200			No Message
13TH FLOOR	PW1	0.52	1000	200			No Message
12TH FLOOR	PW1	0.52	1000	200		200	No Message
11TH FLOOR	PW1	0.51	1000	200	200	200	No Message
10TH FLOOR	PW1	0.51	1000	200	200	200	No Message
9TH FLOOR	PW1	0.5	1000	200	200	200	No Message
8TH FLOOR	PW1	0.51	1000	200	200	200	No Message
7TH FLOOR	PW1	0.59	1000	200	200	200	No Message
6TH FLOOR	PW1	0.58	1000	200	200	200	No Message
5TH FLOOR	PW1	0.6	1000	200	200	200	No Message
4TH FLOOR	PW1	0.71	1000	200	200	200	No Message
3RD FLOOR	PW1	0.82	1000	200	300	300	No Message
2ND FLOOR	PW1	1.23	1000	300	300	300	No Message
1ST FLOOR	PW1	1.43	1000	300	300	300	No Message
STILT FLOOR	PW1	1.83	1000	300	300	300	No Message
TERRACE	PW2	0.67	1850	200			No Message
16TH FLOOR	PW2	0.51	1850	200			No Message
15TH FLOOR	PW2	0.5	1850	200			No Message
14TH FLOOR	PW2	0.48	1850	200			No Message
13TH FLOOR	PW2	0.47	1850	200			No Message
12TH FLOOR	PW2	0.45	1850	200		200	No Message
11TH FLOOR	PW2	0.44	1850	200	200	300	No Message
10TH FLOOR	PW2	0.46	1850	200	300	300	No Message
9TH FLOOR	PW2	0.53	1850	200	300	300	No Message
8TH FLOOR	PW2	0.73	1850	200	300	400	No Message
7TH FLOOR	PW2	0.88	1850	200	300	400	No Message
6TH FLOOR	PW2	0.56	1850	200	300	400	No Message
5TH FLOOR	PW2	0.72	1850	200	300	400	No Message
4TH FLOOR	PW2	0.88	1850	200	400	400	No Message
3RD FLOOR	PW2	1.26	1850	200	400	500	No Message
2ND FLOOR	PW2	2.63	1850	200	500	500	No Message
1ST FLOOR	PW2	0.48	1850	300	450	450	No Message
STILT FLOOR	PW2	0.99	1850	300	450	450	No Message
TERRACE	PW3	1.11	1850	200			No Message
16TH FLOOR	PW3	0.86	1850	200			No Message

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15TH FLOOR	PW3	0.82	1850	200			No Message
14TH FLOOR	PW3	0.77	1850	200		200	No Message
13TH FLOOR	PW3	0.72	1850	200		300	No Message
12TH FLOOR	PW3	0.67	1850	200	300	300	No Message
11TH FLOOR	PW3	0.73	1850	200	300	400	No Message
10TH FLOOR	PW3	0.94	1850	200	300	400	No Message
9TH FLOOR	PW3	1.25	1850	200	400	400	No Message
8TH FLOOR	PW3	1.6	1850	200	400	500	No Message
7TH FLOOR	PW3	1.89	1850	200	500	500	No Message
6TH FLOOR	PW3	1.5	1850	200	400	500	No Message
5TH FLOOR	PW3	1.8	1850	200	500	500	No Message
4TH FLOOR	PW3	2.18	1850	200	500	600	No Message
3RD FLOOR	PW3	2.34	1850	200	600	600	No Message
2ND FLOOR	PW3	0.31	1850	300	450	450	No Message
1ST FLOOR	PW3	0.26	1850	300	450	600	No Message
STILT FLOOR	PW3	1.1	1850	300	600	600	No Message
TERRACE	PW4	0.43	1800	200			No Message
16TH FLOOR	PW4	0.25	1800	200			No Message
15TH FLOOR	PW4	0.27	1800	200			No Message
14TH FLOOR	PW4	0.26	1800	200		200	No Message
13TH FLOOR	PW4	0.27	1800	200	200	300	No Message
12TH FLOOR	PW4	0.26	1800	200	300	300	No Message
11TH FLOOR	PW4	0.45	1800	200	300	300	No Message
10TH FLOOR	PW4	0.67	1800	200	300	400	No Message
9TH FLOOR	PW4	0.89	1800	200	400	400	No Message
8TH FLOOR	PW4	1.18	1800	200	400	500	No Message
7TH FLOOR	PW4	1.44	1800	200	400	500	No Message
6TH FLOOR	PW4	0.97	1800	200	400	500	No Message
5TH FLOOR	PW4	1.2	1800	200	400	500	No Message
4TH FLOOR	PW4	1.47	1800	200	500	500	No Message
3RD FLOOR	PW4	1.91	1800	200	600	600	No Message
2ND FLOOR	PW4	0.43	1800	300	300	450	No Message
1ST FLOOR	PW4	0.47	1800	300	450	450	No Message
STILT FLOOR	PW4	1.19	1800	300	600	600	No Message
TERRACE	PW5	0.87	1200	200			No Message
16TH FLOOR	PW5	0.53	1200	200			No Message
15TH FLOOR	PW5	0.57	1200	200			No Message
14TH FLOOR	PW5	0.47	1200	200			No Message
13TH FLOOR	PW5	0.42	1200	200		200	No Message
12TH FLOOR	PW5	0.37	1200	200		200	No Message
11TH FLOOR	PW5	0.33	1200	200		200	No Message
10TH FLOOR	PW5	0.28	1200	200		200	No Message
9TH FLOOR	PW5	0.42	1200	200	200	200	No Message
8TH FLOOR	PW5	0.57	1200	200	200	300	No Message
7TH FLOOR	PW5	0.7	1200	200	200	300	No Message

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6TH FLOOR	PW5	0.31	1200	200	200	200	No Message
5TH FLOOR	PW5	0.44	1200	200	200	200	No Message
4TH FLOOR	PW5	0.55	1200	200	300	200	No Message
3RD FLOOR	PW5	0.91	1200	200	300	300	No Message
2ND FLOOR	PW5	2.56	1200	200	300	300	No Message
1ST FLOOR	PW5	0.39	1200	300	300	300	No Message
STILT FLOOR	PW5	0.52	1200	300	300	300	No Message
TERRACE	PW6	1.01	1250	200		200	No Message
16TH FLOOR	PW6	0.47	1250	200			No Message
15TH FLOOR	PW6	0.69	1250	200		200	No Message
14TH FLOOR	PW6	0.5	1250	200		200	No Message
13TH FLOOR	PW6	0.58	1250	200		200	No Message
12TH FLOOR	PW6	0.66	1250	200		200	No Message
11TH FLOOR	PW6	0.86	1250	200		300	No Message
10TH FLOOR	PW6	1.1	1250	200		300	No Message
9TH FLOOR	PW6	1.33	1250	200		300	No Message
8TH FLOOR	PW6	1.63	1250	200		300	No Message
7TH FLOOR	PW6	1.85	1250	200		400	No Message
6TH FLOOR	PW6	1.5	1250	200		300	No Message
5TH FLOOR	PW6	1.72	1250	200	200	400	No Message
4TH FLOOR	PW6	2.07	1250	200		400	No Message
3RD FLOOR	PW6	2.17	1250	200	400	400	No Message
2ND FLOOR	PW6	0.44	1250	300		300	No Message
1ST FLOOR	PW6	0.25	1250	300	300	300	No Message
STILT FLOOR	PW6	0.26	1250	300	450	450	No Message
TERRACE	PW7	0.65	1850	200			No Message
16TH FLOOR	PW7	0.45	1850	200			No Message
15TH FLOOR	PW7	0.39	1850	200			No Message
14TH FLOOR	PW7	0.36	1850	200		200	No Message
13TH FLOOR	PW7	0.34	1850	200		300	No Message
12TH FLOOR	PW7	0.46	1850	200		300	No Message
11TH FLOOR	PW7	0.7	1850	200	300	400	No Message
10TH FLOOR	PW7	0.99	1850	200	400	400	No Message
9TH FLOOR	PW7	1.33	1850	200	400	500	No Message
8TH FLOOR	PW7	1.71	1850	200	500	500	No Message
7TH FLOOR	PW7	2.03	1850	200	500	500	No Message
6TH FLOOR	PW7	1.65	1850	200	500	500	No Message
5TH FLOOR	PW7	1.97	1850	200	500	600	No Message
4TH FLOOR	PW7	2.37	1850	200	500	600	No Message
3RD FLOOR	PW7	2.59	1850	200	600	600	No Message
2ND FLOOR	PW7	0.42	1850	300	450	450	No Message
1ST FLOOR	PW7	0.25	1850	300	600	600	No Message
STILT FLOOR	PW7	1.02	1850	300	600	600	No Message
TERRACE	PW8	1.06	1200	200			No Message
16TH FLOOR	PW8	0.77	1200	200			No Message

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15TH FLOOR	PW8	0.75	1200	200			No Message
14TH FLOOR	PW8	0.67	1200	200			No Message
13TH FLOOR	PW8	0.57	1200	200	200	200	No Message
12TH FLOOR	PW8	0.5	1200	200	200	200	No Message
11TH FLOOR	PW8	0.46	1200	200	200	200	No Message
10TH FLOOR	PW8	0.46	1200	200	200	200	No Message
9TH FLOOR	PW8	0.57	1200	200	300	300	No Message
8TH FLOOR	PW8	0.74	1200	200	300	300	No Message
7TH FLOOR	PW8	1.22	1200	200	300	300	No Message
6TH FLOOR	PW8	1.06	1200	200	300	300	No Message
5TH FLOOR	PW8	1.68	1200	200	300	300	No Message
4TH FLOOR	PW8	2.04	1200	200	400	400	No Message
3RD FLOOR	PW8	3.31	1200	200	400	400	No Message
2ND FLOOR	PW8	1.54	1200	300	300	300	No Message
1ST FLOOR	PW8	1.63	1200	300	300	300	No Message
STILT FLOOR	PW8	1.82	1200	300	300	450	No Message
TERRACE	PW9	0.67	1200	200			No Message
16TH FLOOR	PW9	0.5	1200	200			No Message
15TH FLOOR	PW9	0.5	1200	200			No Message
14TH FLOOR	PW9	0.48	1200	200			No Message
13TH FLOOR	PW9	0.45	1200	200			No Message
12TH FLOOR	PW9	0.45	1200	200			No Message
11TH FLOOR	PW9	0.46	1200	200			No Message
10TH FLOOR	PW9	0.45	1200	200	200	200	No Message
9TH FLOOR	PW9	0.46	1200	200	200	200	No Message
8TH FLOOR	PW9	0.47	1200	200	200	200	No Message
7TH FLOOR	PW9	0.46	1200	200	200	200	No Message
6TH FLOOR	PW9	0.48	1200	200	200	200	No Message
5TH FLOOR	PW9	0.49	1200	200	200	200	No Message
4TH FLOOR	PW9	0.51	1200	200	200	200	No Message
3RD FLOOR	PW9	0.68	1200	200	200	200	No Message
2ND FLOOR	PW9	2.09	1200	200	200	300	No Message
1ST FLOOR	PW9	0.66	1200	300	300	300	No Message
STILT FLOOR	PW9	0.82	1200	300	300	300	No Message
TERRACE	PW10	1.05	1200	200			No Message
16TH FLOOR	PW10	0.91	1200	200			No Message
15TH FLOOR	PW10	0.87	1200	200			No Message
14TH FLOOR	PW10	0.85	1200	200			No Message
13TH FLOOR	PW10	0.81	1200	200		200	No Message
12TH FLOOR	PW10	0.77	1200	200		200	No Message
11TH FLOOR	PW10	0.73	1200	200	200	200	No Message
10TH FLOOR	PW10	0.73	1200	200	200	200	No Message
9TH FLOOR	PW10	0.9	1200	200	200	300	No Message
8TH FLOOR	PW10	1.15	1200	200	200	300	No Message
7TH FLOOR	PW10	1.33	1200	200	300	300	No Message

P. PRADEEP M.Tech
DTCP Reg No. CTP/GN/SE/GR-I/2019/MS/007
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6TH FLOOR	PW10	1.04	1200	200	300	300	No Message
5TH FLOOR	PW10	1.23	1200	200	300	300	No Message
4TH FLOOR	PW10	1.49	1200	200	300	300	No Message
3RD FLOOR	PW10	1.56	1200	200	300	400	No Message
2ND FLOOR	PW10	0.25	1200	300	300	300	No Message
1ST FLOOR	PW10	0.25	1200	300	300	300	No Message
STILT FLOOR	PW10	0.48	1200	300	300	300	No Message
TERRACE	PW11	1.08	1850	200			No Message
16TH FLOOR	PW11	0.81	1850	200			No Message
15TH FLOOR	PW11	0.76	1850	200			No Message
14TH FLOOR	PW11	0.68	1850	200		200	No Message
13TH FLOOR	PW11	0.6	1850	200		300	No Message
12TH FLOOR	PW11	0.6	1850	200	300	300	No Message
11TH FLOOR	PW11	0.73	1850	200	300	400	No Message
10TH FLOOR	PW11	0.97	1850	200	400	400	No Message
9TH FLOOR	PW11	1.27	1850	200	400	400	No Message
8TH FLOOR	PW11	1.63	1850	200	400	500	No Message
7TH FLOOR	PW11	1.94	1850	200	500	500	No Message
6TH FLOOR	PW11	1.54	1850	200	500	500	No Message
5TH FLOOR	PW11	1.84	1850	200	500	600	No Message
4TH FLOOR	PW11	2.25	1850	200	500	600	No Message
3RD FLOOR	PW11	2.41	1850	200	600	600	No Message
2ND FLOOR	PW11	0.48	1850	300	450	450	No Message
1ST FLOOR	PW11	0.25	1850	300	600	600	No Message
STILT FLOOR	PW11	0.94	1850	300	600	600	No Message
TERRACE	PW12	0.25	3700	200			No Message
16TH FLOOR	PW12	0.25	3700	200			No Message
15TH FLOOR	PW12	0.25	3700	200			No Message
14TH FLOOR	PW12	0.25	3700	200			No Message
13TH FLOOR	PW12	0.25	3700	200	400	400	No Message
12TH FLOOR	PW12	0.25	3700	200	400	400	No Message
11TH FLOOR	PW12	0.25	3700	200	500	500	No Message
10TH FLOOR	PW12	0.25	3700	200	500	500	No Message
9TH FLOOR	PW12	0.25	3700	200	500	500	No Message
8TH FLOOR	PW12	0.25	3700	200	600	600	No Message
7TH FLOOR	PW12	0.25	3700	200	600	600	No Message
6TH FLOOR	PW12	0.25	3700	200	600	600	No Message
5TH FLOOR	PW12	0.25	3700	200	700	600	No Message
4TH FLOOR	PW12	0.36	3700	200	700	700	No Message
3RD FLOOR	PW12	0.53	3700	200	700	800	No Message
2ND FLOOR	PW12	2.27	3700	200	800	800	No Message
1ST FLOOR	PW12	2.69	3700	200	900	900	No Message
STILT FLOOR	PW12	3.11	3700	200	1000	1000	No Message
TERRACE	PW13	0.25	3400	200			No Message
16TH FLOOR	PW13	0.25	3400	200			No Message

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15TH FLOOR	PW13	0.25	3400	200			No Message
14TH FLOOR	PW13	0.25	3400	200			No Message
13TH FLOOR	PW13	0.25	3400	200			No Message
12TH FLOOR	PW13	0.25	3400	200	400	400	No Message
11TH FLOOR	PW13	0.25	3400	200	400	400	No Message
10TH FLOOR	PW13	0.25	3400	200	400	400	No Message
9TH FLOOR	PW13	0.25	3400	200	500	500	No Message
8TH FLOOR	PW13	0.25	3400	200	500	500	No Message
7TH FLOOR	PW13	0.25	3400	200	500	500	No Message
6TH FLOOR	PW13	0.25	3400	200	500	500	No Message
5TH FLOOR	PW13	0.31	3400	200	500	500	No Message
4TH FLOOR	PW13	0.41	3400	200	600	600	No Message
3RD FLOOR	PW13	0.52	3400	200	600	600	No Message
2ND FLOOR	PW13	1.76	3400	200	600	700	No Message
1ST FLOOR	PW13	1.59	3400	200	700	700	No Message
STILT FLOOR	PW13	2.27	3400	200	800	800	No Message
TERRACE	PW14	0.25	1200	200			No Message
16TH FLOOR	PW14	0.25	1200	200			No Message
15TH FLOOR	PW14	0.25	1200	200			No Message
14TH FLOOR	PW14	0.25	1200	200			No Message
13TH FLOOR	PW14	0.25	1200	200			No Message
12TH FLOOR	PW14	0.25	1200	200		200	No Message
11TH FLOOR	PW14	0.25	1200	200		200	No Message
10TH FLOOR	PW14	0.25	1200	200		200	No Message
9TH FLOOR	PW14	0.25	1200	200	200	200	No Message
8TH FLOOR	PW14	0.25	1200	200	200	200	No Message
7TH FLOOR	PW14	0.33	1200	200	200	200	No Message
6TH FLOOR	PW14	0.25	1200	200	200	200	No Message
5TH FLOOR	PW14	0.25	1200	200	200	200	No Message
4TH FLOOR	PW14	0.25	1200	200	200	200	No Message
3RD FLOOR	PW14	0.47	1200	200	300	200	No Message
2ND FLOOR	PW14	2.21	1200	200		300	No Message
1ST FLOOR	PW14	1.46	1200	200	300	300	No Message
STILT FLOOR	PW14	1.81	1200	200	300	400	No Message
TERRACE	PW15	0.91	1000	200			No Message
16TH FLOOR	PW15	0.77	1000	200			No Message
15TH FLOOR	PW15	0.72	1000	200			No Message
14TH FLOOR	PW15	0.66	1000	200			No Message
13TH FLOOR	PW15	0.57	1000	200		200	No Message
12TH FLOOR	PW15	0.5	1000	200		200	No Message
11TH FLOOR	PW15	0.47	1000	200	200	200	No Message
10TH FLOOR	PW15	0.46	1000	200	200	200	No Message
9TH FLOOR	PW15	0.45	1000	200	200	200	No Message
8TH FLOOR	PW15	0.46	1000	200	200	200	No Message
7TH FLOOR	PW15	0.45	1000	200	200	200	No Message

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6TH FLOOR	PW15	0.49	1000	200	200	200	No Message
5TH FLOOR	PW15	0.51	1000	200	200	200	No Message
4TH FLOOR	PW15	0.65	1000	200	200	200	No Message
3RD FLOOR	PW15	0.74	1000	200	300	300	No Message
2ND FLOOR	PW15	1.11	1000	300	300	300	No Message
1ST FLOOR	PW15	1.28	1000	300	300	300	No Message
STILT FLOOR	PW15	1.67	1000	300	300	300	No Message
TERRACE	PW16	0.52	1200	200			No Message
16TH FLOOR	PW16	0.28	1200	200			No Message
15TH FLOOR	PW16	0.33	1200	200			No Message
14TH FLOOR	PW16	0.4	1200	200		200	No Message
13TH FLOOR	PW16	0.42	1200	200	200	200	No Message
12TH FLOOR	PW16	0.46	1200	200	200	200	No Message
11TH FLOOR	PW16	0.63	1200	200	200	200	No Message
10TH FLOOR	PW16	0.83	1200	200	200	300	No Message
9TH FLOOR	PW16	1.21	1200	200	200	300	No Message
8TH FLOOR	PW16	1.28	1200	200	300	300	No Message
7TH FLOOR	PW16	1.51	1200	200	300	300	No Message
6TH FLOOR	PW16	1.12	1200	200	300	300	No Message
5TH FLOOR	PW16	1.31	1200	200	300	300	No Message
4TH FLOOR	PW16	1.63	1200	200	300	400	No Message
3RD FLOOR	PW16	1.69	1200	200	400	400	No Message
2ND FLOOR	PW16	0.31	1200	300	300	300	No Message
1ST FLOOR	PW16	0.25	1200	300	300	300	No Message
STILT FLOOR	PW16	0.34	1200	300	300	300	No Message
TERRACE	PW17	0.42	3600	200			No Message
16TH FLOOR	PW17	0.43	3600	200			No Message
15TH FLOOR	PW17	0.45	3600	200			No Message
14TH FLOOR	PW17	0.46	3600	200			No Message
13TH FLOOR	PW17	0.46	3600	200	400	400	No Message
12TH FLOOR	PW17	0.45	3600	200	400	400	No Message
11TH FLOOR	PW17	0.44	3600	200	500	500	No Message
10TH FLOOR	PW17	0.45	3600	200	500	500	No Message
9TH FLOOR	PW17	0.48	3600	200	500	500	No Message
8TH FLOOR	PW17	0.6	3600	200	600	600	No Message
7TH FLOOR	PW17	0.73	3600	200	600	600	No Message
6TH FLOOR	PW17	0.46	3600	200	600	600	No Message
5TH FLOOR	PW17	0.46	3600	200	600	600	No Message
4TH FLOOR	PW17	0.55	3600	200	700	700	No Message
3RD FLOOR	PW17	0.75	3600	200	700	700	No Message
2ND FLOOR	PW17	2.17	3600	200	800	800	No Message
1ST FLOOR	PW17	2.42	3600	200	900	900	No Message
STILT FLOOR	PW17	2.84	3600	200	1000	1000	No Message
TERRACE	PW19	0.25	3600	300			No Message
16TH FLOOR	PW19	0.25	3600	300			No Message

P. PRADEEP M.Tech
DTCP Reg No. CGL.RGN/SE/GR-I/2019/05/007
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15TH FLOOR	PW19	0.25	3600	300			No Message
14TH FLOOR	PW19	0.25	3600	300			No Message
13TH FLOOR	PW19	0.25	3600	300			No Message
12TH FLOOR	PW19	0.25	3600	300	450	450	No Message
11TH FLOOR	PW19	0.25	3600	300	450	450	No Message
10TH FLOOR	PW19	0.25	3600	300	450	450	No Message
9TH FLOOR	PW19	0.25	3600	300	450	450	No Message
8TH FLOOR	PW19	0.25	3600	300	600	600	No Message
7TH FLOOR	PW19	0.25	3600	300	600	600	No Message
6TH FLOOR	PW19	0.25	3600	300	600	600	No Message
5TH FLOOR	PW19	0.25	3600	300	600	600	No Message
4TH FLOOR	PW19	0.25	3600	300	600	600	No Message
3RD FLOOR	PW19	0.25	3600	300	600	750	No Message
2ND FLOOR	PW19	0.43	3600	300	750	750	No Message
1ST FLOOR	PW19	1	3600	300	750	750	No Message
STILT FLOOR	PW19	1.68	3600	300	900	900	No Message
TERRACE	PW20	0.34	1500	200			No Message
16TH FLOOR	PW20	0.25	1500	200			No Message
15TH FLOOR	PW20	0.25	1500	200			No Message
14TH FLOOR	PW20	0.25	1500	200			No Message
13TH FLOOR	PW20	0.25	1500	200			No Message
12TH FLOOR	PW20	0.25	1500	200	200	200	No Message
11TH FLOOR	PW20	0.25	1500	200	200	200	No Message
10TH FLOOR	PW20	0.25	1500	200	300	300	No Message
9TH FLOOR	PW20	0.41	1500	200	300	300	No Message
8TH FLOOR	PW20	0.71	1500	200	400	400	No Message
7TH FLOOR	PW20	1.01	1500	200	400	400	No Message
6TH FLOOR	PW20	0.51	1500	200	400	300	No Message
5TH FLOOR	PW20	0.8	1500	200	400	400	No Message
4TH FLOOR	PW20	1.14	1500	200	400	400	No Message
3RD FLOOR	PW20	1.43	1500	200	500	400	No Message
2ND FLOOR	PW20	0.25	1500	300	450	300	No Message
1ST FLOOR	PW20	0.25	1500	300	450	450	No Message
STILT FLOOR	PW20	0.57	1500	300	450	450	No Message
TERRACE	PW21	1.08	1200	200			No Message
16TH FLOOR	PW21	0.82	1200	200			No Message
15TH FLOOR	PW21	0.79	1200	200	200		No Message
14TH FLOOR	PW21	0.72	1200	200	200		No Message
13TH FLOOR	PW21	0.68	1200	200	200		No Message
12TH FLOOR	PW21	0.75	1200	200	200	200	No Message
11TH FLOOR	PW21	0.97	1200	200	300	200	No Message
10TH FLOOR	PW21	1.29	1200	200	300	300	No Message
9TH FLOOR	PW21	1.66	1200	200	300	300	No Message
8TH FLOOR	PW21	2.05	1200	200	400	300	No Message
7TH FLOOR	PW21	2.38	1200	200	400	300	No Message

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Reg No. CGLRA/18E/GR-I/2019/07807
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6TH FLOOR	PW21	2.05	1200	200	400	300	No Message
5TH FLOOR	PW21	2.42	1200	200	400	400	No Message
4TH FLOOR	PW21	2.91	1200	200	400	400	No Message
3RD FLOOR	PW21	3.13	1200	200	500	400	No Message
2ND FLOOR	PW21	0.95	1200	300	450	300	No Message
1ST FLOOR	PW21	0.31	1200	300	300	300	No Message
STILT FLOOR	PW21	0.9	1200	300	450	450	No Message
TERRACE	PW22	0.32	1450	200			No Message
16TH FLOOR	PW22	0.25	1450	200			No Message
15TH FLOOR	PW22	0.25	1450	200			No Message
14TH FLOOR	PW22	0.25	1450	200	200		No Message
13TH FLOOR	PW22	0.25	1450	200	200	200	No Message
12TH FLOOR	PW22	0.34	1450	200	300	200	No Message
11TH FLOOR	PW22	0.56	1450	200	300	200	No Message
10TH FLOOR	PW22	0.82	1450	200	300	300	No Message
9TH FLOOR	PW22	1.13	1450	200	300	300	No Message
8TH FLOOR	PW22	1.43	1450	200	400	300	No Message
7TH FLOOR	PW22	1.75	1450	200	400	400	No Message
6TH FLOOR	PW22	1.3	1450	200	400	300	No Message
5TH FLOOR	PW22	1.62	1450	200	400	400	No Message
4TH FLOOR	PW22	1.94	1450	200	400	400	No Message
3RD FLOOR	PW22	2.24	1450	200	500	500	No Message
2ND FLOOR	PW22	0.35	1450	300	450	300	No Message
1ST FLOOR	PW22	0.25	1450	300	450	300	No Message
STILT FLOOR	PW22	0.75	1450	300	450	450	No Message
TERRACE	PW23	0.25	1450	200			No Message
16TH FLOOR	PW23	0.25	1450	200			No Message
15TH FLOOR	PW23	0.33	1450	200			No Message
14TH FLOOR	PW23	0.38	1450	200		200	No Message
13TH FLOOR	PW23	0.42	1450	200	200	200	No Message
12TH FLOOR	PW23	0.45	1450	200	200	300	No Message
11TH FLOOR	PW23	0.63	1450	200	200	300	No Message
10TH FLOOR	PW23	0.85	1450	200	300	300	No Message
9TH FLOOR	PW23	1.09	1450	200	300	300	No Message
8TH FLOOR	PW23	1.32	1450	200	300	400	No Message
7TH FLOOR	PW23	1.57	1450	200	400	400	No Message
6TH FLOOR	PW23	1.17	1450	200	400	400	No Message
5TH FLOOR	PW23	1.33	1450	200	400	400	No Message
4TH FLOOR	PW23	1.61	1450	200	400	400	No Message
3RD FLOOR	PW23	1.66	1450	200	400	400	No Message
2ND FLOOR	PW23	0.25	1450	300	300	300	No Message
1ST FLOOR	PW23	0.25	1450	300	450	300	No Message
STILT FLOOR	PW23	0.71	1450	300	450	450	No Message
TERRACE	PW24	1.33	1500	200			No Message
16TH FLOOR	PW24	0.38	1500	200			No Message

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15TH FLOOR	PW24	0.4	1500	200			No Message
14TH FLOOR	PW24	0.31	1500	200	200	200	No Message
13TH FLOOR	PW24	0.32	1500	200	200	200	No Message
12TH FLOOR	PW24	0.4	1500	200	300	300	No Message
11TH FLOOR	PW24	0.55	1500	200	300	300	No Message
10TH FLOOR	PW24	0.76	1500	200	300	300	No Message
9TH FLOOR	PW24	1	1500	200	400	400	No Message
8TH FLOOR	PW24	1.27	1500	200	400	400	No Message
7TH FLOOR	PW24	1.44	1500	200	400	400	No Message
6TH FLOOR	PW24	0.96	1500	200	400	400	No Message
5TH FLOOR	PW24	1.12	1500	200	400	400	No Message
4TH FLOOR	PW24	1.42	1500	200	500	500	No Message
3RD FLOOR	PW24	1.76	1500	200	500	500	No Message
2ND FLOOR	PW24	0.25	1500	300	450	450	No Message
1ST FLOOR	PW24	0.25	1500	300	450	450	No Message
STILT FLOOR	PW24	1.1	1500	300	600	600	No Message
TERRACE	PW25	0.4	1500	200			No Message
16TH FLOOR	PW25	0.25	1500	200			No Message
15TH FLOOR	PW25	0.25	1500	200		200	No Message
14TH FLOOR	PW25	0.25	1500	200			No Message
13TH FLOOR	PW25	0.25	1500	200		200	No Message
12TH FLOOR	PW25	0.25	1500	200	200	300	No Message
11TH FLOOR	PW25	0.25	1500	200	200	300	No Message
10TH FLOOR	PW25	0.25	1500	200	300	300	No Message
9TH FLOOR	PW25	0.25	1500	200	300	300	No Message
8TH FLOOR	PW25	0.36	1500	200	300	400	No Message
7TH FLOOR	PW25	0.63	1500	200	400	400	No Message
6TH FLOOR	PW25	0.25	1500	200	300	400	No Message
5TH FLOOR	PW25	0.25	1500	200	400	400	No Message
4TH FLOOR	PW25	0.42	1500	200	400	400	No Message
3RD FLOOR	PW25	0.76	1500	200	400	500	No Message
2ND FLOOR	PW25	0.25	1500	300	300	450	No Message
1ST FLOOR	PW25	0.25	1500	300	450	450	No Message
STILT FLOOR	PW25	0.72	1500	300	450	450	No Message
TERRACE	PW26	1.19	1500	200			No Message
16TH FLOOR	PW26	0.86	1500	200			No Message
15TH FLOOR	PW26	0.77	1500	200			No Message
14TH FLOOR	PW26	0.68	1500	200		200	No Message
13TH FLOOR	PW26	0.61	1500	200	200	200	No Message
12TH FLOOR	PW26	0.66	1500	200	200	300	No Message
11TH FLOOR	PW26	0.78	1500	200	300	300	No Message
10TH FLOOR	PW26	0.99	1500	200	300	300	No Message
9TH FLOOR	PW26	1.21	1500	200	300	400	No Message
8TH FLOOR	PW26	1.49	1500	200	400	400	No Message
7TH FLOOR	PW26	1.65	1500	200	400	400	No Message

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6TH FLOOR	PW26	1.21	1500	200	400	400	No Message
5TH FLOOR	PW26	1.35	1500	200	400	400	No Message
4TH FLOOR	PW26	1.66	1500	200	500	500	No Message
3RD FLOOR	PW26	1.79	1500	200	500	500	No Message
2ND FLOOR	PW26	0.25	1500	300	450	450	No Message
1ST FLOOR	PW26	0.25	1500	300	450	450	No Message
STILT FLOOR	PW26	1.06	1500	300	600	600	No Message
TERRACE	PW27	0.78	1450	200			No Message
16TH FLOOR	PW27	0.59	1450	200			No Message
15TH FLOOR	PW27	0.55	1450	200			No Message
14TH FLOOR	PW27	0.62	1450	200		200	No Message
13TH FLOOR	PW27	0.7	1450	200		200	No Message
12TH FLOOR	PW27	0.81	1450	200	200	200	No Message
11TH FLOOR	PW27	0.9	1450	200	200	200	No Message
10TH FLOOR	PW27	1.08	1450	200	300	300	No Message
9TH FLOOR	PW27	1.18	1450	200	300	300	No Message
8TH FLOOR	PW27	1.32	1450	200	300	300	No Message
7TH FLOOR	PW27	1.32	1450	200	300	300	No Message
6TH FLOOR	PW27	1.58	1450	200	300	300	No Message
5TH FLOOR	PW27	1.56	1450	200	300	300	No Message
4TH FLOOR	PW27	1.64	1450	200	400	400	No Message
3RD FLOOR	PW27	1.51	1450	200	400	400	No Message
2ND FLOOR	PW27	0.5	1450	300	300	300	No Message
1ST FLOOR	PW27	0.25	1450	300	450	450	No Message
STILT FLOOR	PW27	0.86	1450	300	450	450	No Message
TERRACE	PW28	0.35	1800	200			No Message
16TH FLOOR	PW28	0.25	1800	200			No Message
15TH FLOOR	PW28	0.25	1800	200			No Message
14TH FLOOR	PW28	0.25	1800	200			No Message
13TH FLOOR	PW28	0.25	1800	200		200	No Message
12TH FLOOR	PW28	0.25	1800	200	200	200	No Message
11TH FLOOR	PW28	0.25	1800	200	300	300	No Message
10TH FLOOR	PW28	0.25	1800	200	300	300	No Message
9TH FLOOR	PW28	0.25	1800	200	300	300	No Message
8TH FLOOR	PW28	0.25	1800	200	400	400	No Message
7TH FLOOR	PW28	0.33	1800	200	400	400	No Message
6TH FLOOR	PW28	0.25	1800	200	400	400	No Message
5TH FLOOR	PW28	0.25	1800	200	400	400	No Message
4TH FLOOR	PW28	0.25	1800	200	400	400	No Message
3RD FLOOR	PW28	0.43	1800	200	500	500	No Message
2ND FLOOR	PW28	2.32	1800	200	500	500	No Message
1ST FLOOR	PW28	2.07	1800	200	600	600	No Message
STILT FLOOR	PW28	3.04	1800	200	700	700	No Message
TERRACE	PW29	0.71	1000	200			No Message
16TH FLOOR	PW29	0.59	1000	200			No Message

P. PRADEEP M.Tech
DTCP Reg No. CGLRGN/SE/CR-I/2019/05/007
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15TH FLOOR	PW29	0.57	1000	200			No Message
14TH FLOOR	PW29	0.53	1000	200			No Message
13TH FLOOR	PW29	0.49	1000	200			No Message
12TH FLOOR	PW29	0.49	1000	200		200	No Message
11TH FLOOR	PW29	0.47	1000	200	200	200	No Message
10TH FLOOR	PW29	0.46	1000	200	200	200	No Message
9TH FLOOR	PW29	0.45	1000	200	200	200	No Message
8TH FLOOR	PW29	0.46	1000	200	200	200	No Message
7TH FLOOR	PW29	0.45	1000	200	200	200	No Message
6TH FLOOR	PW29	0.49	1000	200	200	200	No Message
5TH FLOOR	PW29	0.49	1000	200	200	200	No Message
4TH FLOOR	PW29	0.62	1000	200	200	300	No Message
3RD FLOOR	PW29	0.89	1000	200	200	300	No Message
2ND FLOOR	PW29	1.21	1000	300	300	300	No Message
1ST FLOOR	PW29	1.27	1000	300	300	300	No Message
STILT FLOOR	PW29	1.73	1000	300	300	300	No Message
TERRACE	PW30	0.84	1200	200			No Message
16TH FLOOR	PW30	0.76	1200	200			No Message
15TH FLOOR	PW30	0.74	1200	200			No Message
14TH FLOOR	PW30	0.71	1200	200			No Message
13TH FLOOR	PW30	0.68	1200	200			No Message
12TH FLOOR	PW30	0.68	1200	200		200	No Message
11TH FLOOR	PW30	0.65	1200	200	200	200	No Message
10TH FLOOR	PW30	0.68	1200	200	200	200	No Message
9TH FLOOR	PW30	0.87	1200	200	200	200	No Message
8TH FLOOR	PW30	1.13	1200	200	200	300	No Message
7TH FLOOR	PW30	1.31	1200	200	300	300	No Message
6TH FLOOR	PW30	1.01	1200	200	200	200	No Message
5TH FLOOR	PW30	1.19	1200	200	300	300	No Message
4TH FLOOR	PW30	1.45	1200	200	300	300	No Message
3RD FLOOR	PW30	1.58	1200	200	300	400	No Message
2ND FLOOR	PW30	0.25	1200	300	300	300	No Message
1ST FLOOR	PW30	0.25	1200	300	300	300	No Message
STILT FLOOR	PW30	0.52	1200	300	300	300	No Message
TERRACE	PW31	0.84	1200	200			No Message
16TH FLOOR	PW31	0.69	1200	200			No Message
15TH FLOOR	PW31	0.7	1200	200			No Message
14TH FLOOR	PW31	0.7	1200	200			No Message
13TH FLOOR	PW31	0.67	1200	200	200	200	No Message
12TH FLOOR	PW31	0.68	1200	200	200	200	No Message
11TH FLOOR	PW31	0.83	1200	200	200	200	No Message
10TH FLOOR	PW31	1.1	1200	200	200	300	No Message
9TH FLOOR	PW31	1.36	1200	200	300	300	No Message
8TH FLOOR	PW31	1.67	1200	200	300	300	No Message
7TH FLOOR	PW31	1.92	1200	200	300	300	No Message

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6TH FLOOR	PW31	1.56	1200	200	300	300	No Message
5TH FLOOR	PW31	1.79	1200	200	300	300	No Message
4TH FLOOR	PW31	2.13	1200	200	400	400	No Message
3RD FLOOR	PW31	2.25	1200	200	400	400	No Message
2ND FLOOR	PW31	0.32	1200	300	300	300	No Message
1ST FLOOR	PW31	0.25	1200	300	300	300	No Message
STILT FLOOR	PW31	0.25	1200	300	300	300	No Message
TERRACE	PW32	1.22	1200	200			No Message
16TH FLOOR	PW32	0.97	1200	200		200	No Message
15TH FLOOR	PW32	0.86	1200	200		200	No Message
14TH FLOOR	PW32	0.8	1200	200	200	200	No Message
13TH FLOOR	PW32	0.77	1200	200	200	200	No Message
12TH FLOOR	PW32	0.8	1200	200	200	300	No Message
11TH FLOOR	PW32	0.93	1200	200	300	300	No Message
10TH FLOOR	PW32	1.15	1200	200	300	300	No Message
9TH FLOOR	PW32	1.47	1200	200	300	400	No Message
8TH FLOOR	PW32	1.83	1200	200	400	400	No Message
7TH FLOOR	PW32	2.2	1200	200	400	400	No Message
6TH FLOOR	PW32	1.72	1200	200	400	400	No Message
5TH FLOOR	PW32	2.14	1200	200	400	500	No Message
4TH FLOOR	PW32	2.69	1200	200	500	500	No Message
3RD FLOOR	PW32	3.1	1200	200	500	500	No Message
2ND FLOOR	PW32	1.1	1200	300	450	450	No Message
1ST FLOOR	PW32	0.51	1200	300	450	450	No Message
STILT FLOOR	PW32	1.58	1200	300	600	600	No Message
TERRACE	PW33	1.18	1200	200			No Message
16TH FLOOR	PW33	0.86	1200	200			No Message
15TH FLOOR	PW33	0.78	1200	200	200	200	No Message
14TH FLOOR	PW33	0.72	1200	200	200	200	No Message
13TH FLOOR	PW33	0.68	1200	200	200	200	No Message
12TH FLOOR	PW33	0.75	1200	200	300	300	No Message
11TH FLOOR	PW33	0.87	1200	200	300	300	No Message
10TH FLOOR	PW33	1.11	1200	200	300	300	No Message
9TH FLOOR	PW33	1.29	1200	200	300	300	No Message
8TH FLOOR	PW33	1.55	1200	200	400	400	No Message
7TH FLOOR	PW33	1.67	1200	200	400	400	No Message
6TH FLOOR	PW33	1.23	1200	200	400	400	No Message
5TH FLOOR	PW33	0.31	1200	200	400	400	No Message
4TH FLOOR	PW33	1.67	1200	200	400	400	No Message
3RD FLOOR	PW33	2	1200	200	500	500	No Message
2ND FLOOR	PW33	0.29	1200	300	450	450	No Message
1ST FLOOR	PW33	0.25	1200	300	450	450	No Message
STILT FLOOR	PW33	1.05	1200	300	450	450	No Message
TERRACE	PW34	1.16	1200	200			No Message
16TH FLOOR	PW34	0.83	1200	200			No Message

P. PRADEEP M.Tech
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15TH FLOOR	PW34	0.74	1200	200	200	200	No Message
14TH FLOOR	PW34	0.64	1200	200	200	200	No Message
13TH FLOOR	PW34	0.58	1200	200	200	200	No Message
12TH FLOOR	PW34	0.71	1200	200	200	200	No Message
11TH FLOOR	PW34	0.78	1200	200	300	300	No Message
10TH FLOOR	PW34	1	1200	200	300	300	No Message
9TH FLOOR	PW34	1.21	1200	200	300	300	No Message
8TH FLOOR	PW34	1.49	1200	200	400	400	No Message
7TH FLOOR	PW34	1.65	1200	200	400	400	No Message
6TH FLOOR	PW34	1.21	1200	200	400	400	No Message
5TH FLOOR	PW34	1.35	1200	200	400	400	No Message
4TH FLOOR	PW34	1.64	1200	200	400	400	No Message
3RD FLOOR	PW34	2.03	1200	200	500	500	No Message
2ND FLOOR	PW34	0.26	1200	300	450	450	No Message
1ST FLOOR	PW34	0.25	1200	300	450	450	No Message
STILT FLOOR	PW34	0.82	1200	300	450	450	No Message
TERRACE	PW35	1.27	1200	200			No Message
16TH FLOOR	PW35	0.96	1200	200			No Message
15TH FLOOR	PW35	0.84	1200	200			No Message
14TH FLOOR	PW35	0.78	1200	200	200	200	No Message
13TH FLOOR	PW35	0.74	1200	200	200	200	No Message
12TH FLOOR	PW35	0.78	1200	200	200	200	No Message
11TH FLOOR	PW35	0.9	1200	200	300	300	No Message
10TH FLOOR	PW35	1.13	1200	200	300	300	No Message
9TH FLOOR	PW35	1.3	1200	200	300	300	No Message
8TH FLOOR	PW35	1.57	1200	200	300	300	No Message
7TH FLOOR	PW35	1.69	1200	200	400	400	No Message
6TH FLOOR	PW35	1.26	1200	200	300	400	No Message
5TH FLOOR	PW35	1.35	1200	200	400	400	No Message
4TH FLOOR	PW35	1.59	1200	200	400	400	No Message
3RD FLOOR	PW35	1.8	1200	200	400	400	No Message
2ND FLOOR	PW35	0.25	1200	300	300	300	No Message
1ST FLOOR	PW35	0.25	1200	300	450	450	No Message
STILT FLOOR	PW35	0.78	1200	300	450	450	No Message
TERRACE	PW36	1.44	1200	200			No Message
16TH FLOOR	PW36	1.1	1200	200			No Message
15TH FLOOR	PW36	1.04	1200	200		200	No Message
14TH FLOOR	PW36	0.95	1200	200	200	200	No Message
13TH FLOOR	PW36	0.97	1200	200	200	200	No Message
12TH FLOOR	PW36	0.99	1200	200	200	300	No Message
11TH FLOOR	PW36	1.18	1200	200	300	300	No Message
10TH FLOOR	PW36	1.4	1200	200	300	300	No Message
9TH FLOOR	PW36	1.62	1200	200	300	300	No Message
8TH FLOOR	PW36	1.86	1200	200	300	400	No Message
7TH FLOOR	PW36	2	1200	200	400	400	No Message

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6TH FLOOR	PW36	1.59	1200	200	400	400	No Message
5TH FLOOR	PW36	1.69	1200	200	400	400	No Message
4TH FLOOR	PW36	1.94	1200	200	400	400	No Message
3RD FLOOR	PW36	2.24	1200	200	500	500	No Message
2ND FLOOR	PW36	0.5	1200	300	450	450	No Message
1ST FLOOR	PW36	0.25	1200	300	450	450	No Message
STILT FLOOR	PW36	1.07	1200	300	450	450	No Message
TERRACE	PW37	0.62	1200	200			No Message
16TH FLOOR	PW37	0.33	1200	200			No Message
15TH FLOOR	PW37	0.25	1200	200			No Message
14TH FLOOR	PW37	0.25	1200	200	200	200	No Message
13TH FLOOR	PW37	0.25	1200	200	200	200	No Message
12TH FLOOR	PW37	0.25	1200	200	200	200	No Message
11TH FLOOR	PW37	0.25	1200	200	200	300	No Message
10TH FLOOR	PW37	0.25	1200	200	300	300	No Message
9TH FLOOR	PW37	0.39	1200	200	300	300	No Message
8TH FLOOR	PW37	0.68	1200	200	300	300	No Message
7TH FLOOR	PW37	0.97	1200	200	400	400	No Message
6TH FLOOR	PW37	0.35	1200	200	300	300	No Message
5TH FLOOR	PW37	0.62	1200	200	400	400	No Message
4TH FLOOR	PW37	0.95	1200	200	400	400	No Message
3RD FLOOR	PW37	1.23	1200	200	400	400	No Message
2ND FLOOR	PW37	0.25	1200	300	300	300	No Message
1ST FLOOR	PW37	0.25	1200	300	450	450	No Message
STILT FLOOR	PW37	0.75	1200	300	450	450	No Message
TERRACE	PW38	0.5	1200	200			No Message
16TH FLOOR	PW38	0.48	1200	200			No Message
15TH FLOOR	PW38	0.52	1200	200			No Message
14TH FLOOR	PW38	0.56	1200	200			No Message
13TH FLOOR	PW38	0.59	1200	200		200	No Message
12TH FLOOR	PW38	0.62	1200	200	200	200	No Message
11TH FLOOR	PW38	0.79	1200	200	200	200	No Message
10TH FLOOR	PW38	1.06	1200	200	200	300	No Message
9TH FLOOR	PW38	1.34	1200	200	200	300	No Message
8TH FLOOR	PW38	1.68	1200	200	300	300	No Message
7TH FLOOR	PW38	1.99	1200	200	300	300	No Message
6TH FLOOR	PW38	1.65	1200	200	300	300	No Message
5TH FLOOR	PW38	1.93	1200	200	300	300	No Message
4TH FLOOR	PW38	2.29	1200	200	300	400	No Message
3RD FLOOR	PW38	2.47	1200	200	300	400	No Message
2ND FLOOR	PW38	0.66	1200	300	300	300	No Message
1ST FLOOR	PW38	0.25	1200	300	300	300	No Message
STILT FLOOR	PW38	0.25	1200	300	300	300	No Message
TERRACE	PW39	0.44	1200	200			No Message
16TH FLOOR	PW39	0.34	1200	200			No Message

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15TH FLOOR	PW39	0.4	1200	200			No Message
14TH FLOOR	PW39	0.41	1200	200		200	No Message
13TH FLOOR	PW39	0.44	1200	200		200	No Message
12TH FLOOR	PW39	0.45	1200	200		200	No Message
11TH FLOOR	PW39	0.57	1200	200	200	200	No Message
10TH FLOOR	PW39	0.8	1200	200	200	300	No Message
9TH FLOOR	PW39	1.05	1200	200	200	300	No Message
8TH FLOOR	PW39	1.32	1200	200	300	300	No Message
7TH FLOOR	PW39	1.59	1200	200	300	300	No Message
6TH FLOOR	PW39	1.2	1200	200	300	300	No Message
5TH FLOOR	PW39	1.42	1200	200	300	300	No Message
4TH FLOOR	PW39	1.75	1200	200	300	300	No Message
3RD FLOOR	PW39	1.87	1200	200	300	400	No Message
2ND FLOOR	PW39	0.36	1200	300	300	300	No Message
1ST FLOOR	PW39	0.25	1200	300	300	300	No Message
STILT FLOOR	PW39	0.25	1200	300	300	300	No Message
TERRACE	PW40	0.8	1200	200			No Message
16TH FLOOR	PW40	0.53	1200	200			No Message
15TH FLOOR	PW40	0.52	1200	200		200	No Message
14TH FLOOR	PW40	0.47	1200	200		200	No Message
13TH FLOOR	PW40	0.47	1200	200		200	No Message
12TH FLOOR	PW40	0.61	1200	200		200	No Message
11TH FLOOR	PW40	0.86	1200	200		300	No Message
10TH FLOOR	PW40	1.17	1200	200		300	No Message
9TH FLOOR	PW40	1.48	1200	200	200	300	No Message
8TH FLOOR	PW40	1.84	1200	200	200	300	No Message
7TH FLOOR	PW40	2.17	1200	200	300	400	No Message
6TH FLOOR	PW40	1.78	1200	200	300	400	No Message
5TH FLOOR	PW40	2.1	1200	200	300	400	No Message
4TH FLOOR	PW40	2.5	1200	200	400	400	No Message
3RD FLOOR	PW40	2.68	1200	200	400	400	No Message
2ND FLOOR	PW40	0.74	1200	300	300	300	No Message
1ST FLOOR	PW40	0.25	1200	300	300	300	No Message
STILT FLOOR	PW40	0.35	1200	300	300	450	No Message
TERRACE	PW41	0.78	1200	200			No Message
16TH FLOOR	PW41	0.54	1200	200			No Message
15TH FLOOR	PW41	0.47	1200	200			No Message
14TH FLOOR	PW41	0.37	1200	200		200	No Message
13TH FLOOR	PW41	0.27	1200	200		200	No Message
12TH FLOOR	PW41	0.25	1200	200	200	200	No Message
11TH FLOOR	PW41	0.29	1200	200	200	200	No Message
10TH FLOOR	PW41	0.53	1200	200	200	300	No Message
9TH FLOOR	PW41	0.85	1200	200	300	300	No Message
8TH FLOOR	PW41	1.18	1200	200	300	300	No Message
7TH FLOOR	PW41	1.53	1200	200	300	400	No Message

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6TH FLOOR	PW41	1.02	1200	200	300	300	No Message
5TH FLOOR	PW41	1.32	1200	200	300	400	No Message
4TH FLOOR	PW41	1.68	1200	200	300	400	No Message
3RD FLOOR	PW41	2.21	1200	200	400	400	No Message
2ND FLOOR	PW41	0.35	1200	300	300	300	No Message
1ST FLOOR	PW41	0.25	1200	300	450	300	No Message
STILT FLOOR	PW41	0.45	1200	300	300	450	No Message
TERRACE	PW42	0.88	800	200			No Message
16TH FLOOR	PW42	0.78	800	200			No Message
15TH FLOOR	PW42	0.77	800	200			No Message
14TH FLOOR	PW42	0.74	800	200			No Message
13TH FLOOR	PW42	0.69	800	200		200	No Message
12TH FLOOR	PW42	0.63	800	200	200	200	No Message
11TH FLOOR	PW42	0.57	800	200	200	200	No Message
10TH FLOOR	PW42	0.51	800	200	200	200	No Message
9TH FLOOR	PW42	0.49	800	200	200	200	No Message
8TH FLOOR	PW42	0.48	800	200	200	200	No Message
7TH FLOOR	PW42	0.49	800	200	200	200	No Message
6TH FLOOR	PW42	0.47	800	200	200	200	No Message
5TH FLOOR	PW42	0.6	800	200	200	200	No Message
4TH FLOOR	PW42	0.85	800	200	200	200	No Message
3RD FLOOR	PW42	1.19	800	200	200	200	No Message
2ND FLOOR	PW42	2.87	800	200	200	200	No Message
1ST FLOOR	PW42	1.28	800	300	300	300	No Message
STILT FLOOR	PW42	1.29	800	300	300	300	No Message
TERRACE	PW43	0.47	1300	200			No Message
16TH FLOOR	PW43	0.25	1300	200			No Message
15TH FLOOR	PW43	0.25	1300	200			No Message
14TH FLOOR	PW43	0.25	1300	200	200		No Message
13TH FLOOR	PW43	0.25	1300	200	200	200	No Message
12TH FLOOR	PW43	0.25	1300	200	200	200	No Message
11TH FLOOR	PW43	0.25	1300	200	300	200	No Message
10TH FLOOR	PW43	0.25	1300	200	300	200	No Message
9TH FLOOR	PW43	0.38	1300	200	300	300	No Message
8TH FLOOR	PW43	0.67	1300	200	300	300	No Message
7TH FLOOR	PW43	0.95	1300	200	400	400	No Message
6TH FLOOR	PW43	0.39	1300	200	300	300	No Message
5TH FLOOR	PW43	0.68	1300	200	400	400	No Message
4TH FLOOR	PW43	1.05	1300	200	400	400	No Message
3RD FLOOR	PW43	1.42	1300	200	400	400	No Message
2ND FLOOR	PW43	0.25	1300	300	300	300	No Message
1ST FLOOR	PW43	0.25	1300	300	450	450	No Message
STILT FLOOR	PW43	0.6	1300	300	450	450	No Message
TERRACE	PW44	0.56	1000	200			No Message
16TH FLOOR	PW44	0.46	1000	200			No Message

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15TH FLOOR	PW44	0.49	1000	200			No Message
14TH FLOOR	PW44	0.43	1000	200		200	No Message
13TH FLOOR	PW44	0.43	1000	200	200	200	No Message
12TH FLOOR	PW44	0.45	1000	200	200	200	No Message
11TH FLOOR	PW44	0.5	1000	200	200	200	No Message
10TH FLOOR	PW44	0.79	1000	200	200	200	No Message
9TH FLOOR	PW44	1.11	1000	200	200	300	No Message
8TH FLOOR	PW44	1.48	1000	200	200	300	No Message
7TH FLOOR	PW44	1.76	1000	200	200	300	No Message
6TH FLOOR	PW44	1.43	1000	200	200	300	No Message
5TH FLOOR	PW44	1.69	1000	200	300	300	No Message
4TH FLOOR	PW44	2.02	1000	200	300	300	No Message
3RD FLOOR	PW44	2.08	1000	200	400	400	No Message
2ND FLOOR	PW44	0.25	1000	300	300	300	No Message
1ST FLOOR	PW44	0.25	1000	300	300	300	No Message
STILT FLOOR	PW44	0.38	1000	300	450	450	No Message
TERRACE	PW45	0.57	1000	200			No Message
16TH FLOOR	PW45	0.46	1000	200			No Message
15TH FLOOR	PW45	0.43	1000	200			No Message
14TH FLOOR	PW45	0.41	1000	200		200	No Message
13TH FLOOR	PW45	0.41	1000	200	200	200	No Message
12TH FLOOR	PW45	0.43	1000	200	200	200	No Message
11TH FLOOR	PW45	0.48	1000	200	200	200	No Message
10TH FLOOR	PW45	0.77	1000	200	200	200	No Message
9TH FLOOR	PW45	1.11	1000	200	200	300	No Message
8TH FLOOR	PW45	1.49	1000	200	200	300	No Message
7TH FLOOR	PW45	1.77	1000	200	300	300	No Message
6TH FLOOR	PW45	1.44	1000	200	200	300	No Message
5TH FLOOR	PW45	1.7	1000	200	300	300	No Message
4TH FLOOR	PW45	2.09	1000	200	300	300	No Message
3RD FLOOR	PW45	2.1	1000	200	400	400	No Message
2ND FLOOR	PW45	0.49	1000	300	300	300	No Message
1ST FLOOR	PW45	0.25	1000	300	300	300	No Message
STILT FLOOR	PW45	0.44	1000	300	450	450	No Message
TERRACE	PW46	0.6	1000	200			No Message
16TH FLOOR	PW46	0.47	1000	200			No Message
15TH FLOOR	PW46	0.45	1000	200			No Message
14TH FLOOR	PW46	0.43	1000	200		200	No Message
13TH FLOOR	PW46	0.43	1000	200		200	No Message
12TH FLOOR	PW46	0.44	1000	200	200	200	No Message
11TH FLOOR	PW46	0.45	1000	200	200	200	No Message
10TH FLOOR	PW46	0.65	1000	200	200	200	No Message
9TH FLOOR	PW46	0.93	1000	200	200	300	No Message
8TH FLOOR	PW46	1.27	1000	200	200	300	No Message
7TH FLOOR	PW46	1.55	1000	200	300	300	No Message

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6TH FLOOR	PW46	1.19	1000	200	200	300	No Message
5TH FLOOR	PW46	1.41	1000	200	300	300	No Message
4TH FLOOR	PW46	1.72	1000	200	300	300	No Message
3RD FLOOR	PW46	1.7	1000	200	300	400	No Message
2ND FLOOR	PW46	0.27	1000	300	300	300	No Message
1ST FLOOR	PW46	0.25	1000	300	300	300	No Message
STILT FLOOR	PW46	0.34	1000	300	300	450	No Message
TERRACE	PW47	0.43	800	200			No Message
16TH FLOOR	PW47	0.27	800	200			No Message
15TH FLOOR	PW47	0.36	800	200			No Message
14TH FLOOR	PW47	0.26	800	200			No Message
13TH FLOOR	PW47	0.26	800	200	200		No Message
12TH FLOOR	PW47	0.27	800	200	200		No Message
11TH FLOOR	PW47	0.31	800	200	200	200	No Message
10TH FLOOR	PW47	0.35	800	200	200	200	No Message
9TH FLOOR	PW47	0.39	800	200	200	200	No Message
8TH FLOOR	PW47	0.46	800	200	200	200	No Message
7TH FLOOR	PW47	0.64	800	200	200	200	No Message
6TH FLOOR	PW47	0.48	800	200	200	200	No Message
5TH FLOOR	PW47	0.5	800	200	200	200	No Message
4TH FLOOR	PW47	0.77	800	200	200	200	No Message
3RD FLOOR	PW47	0.98	800	200	200	200	No Message
2ND FLOOR	PW47	2.38	800	200	200	200	No Message
1ST FLOOR	PW47	0.28	800	300	300	300	No Message
STILT FLOOR	PW47	0.38	800	300	300	300	No Message
TERRACE	PW48	0.46	1850	200			No Message
16TH FLOOR	PW48	0.35	1850	200			No Message
15TH FLOOR	PW48	0.35	1850	200			No Message
14TH FLOOR	PW48	0.34	1850	200			No Message
13TH FLOOR	PW48	0.3	1850	200			No Message
12TH FLOOR	PW48	0.26	1850	200	200		No Message
11TH FLOOR	PW48	0.28	1850	200	300		No Message
10TH FLOOR	PW48	0.3	1850	200	300	200	No Message
9TH FLOOR	PW48	0.32	1850	200	300	300	No Message
8TH FLOOR	PW48	0.42	1850	200	400	300	No Message
7TH FLOOR	PW48	0.56	1850	200	400	300	No Message
6TH FLOOR	PW48	0.3	1850	200	400	300	No Message
5TH FLOOR	PW48	0.37	1850	200	400	300	No Message
4TH FLOOR	PW48	0.52	1850	200	400	300	No Message
3RD FLOOR	PW48	0.79	1850	200	400	400	No Message
2ND FLOOR	PW48	2.57	1850	200	500	500	No Message
1ST FLOOR	PW48	0.59	1850	300	450	450	No Message
STILT FLOOR	PW48	1.09	1850	300	450	450	No Message
TERRACE	PW49	0.79	1850	200			No Message
16TH FLOOR	PW49	0.59	1850	200			No Message

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15TH FLOOR	PW49	0.52	1850	200			No Message
14TH FLOOR	PW49	0.46	1850	200			No Message
13TH FLOOR	PW49	0.4	1850	200	200		No Message
12TH FLOOR	PW49	0.36	1850	200	300	200	No Message
11TH FLOOR	PW49	0.28	1850	200	300	300	No Message
10TH FLOOR	PW49	0.47	1850	200	400	300	No Message
9TH FLOOR	PW49	0.71	1850	200	400	300	No Message
8TH FLOOR	PW49	0.98	1850	200	400	400	No Message
7TH FLOOR	PW49	1.23	1850	200	500	500	No Message
6TH FLOOR	PW49	0.68	1850	200	400	400	No Message
5TH FLOOR	PW49	0.78	1850	200	500	500	No Message
4TH FLOOR	PW49	1.31	1850	200	500	500	No Message
3RD FLOOR	PW49	1.43	1850	200	500	500	No Message
2ND FLOOR	PW49	0.25	1850	300	450	450	No Message
1ST FLOOR	PW49	0.25	1850	300	450	450	No Message
STILT FLOOR	PW49	0.83	1850	300	600	600	No Message
TERRACE	PW50	0.5	1200	200			No Message
16TH FLOOR	PW50	0.39	1200	200			No Message
15TH FLOOR	PW50	0.4	1200	200	200		No Message
14TH FLOOR	PW50	0.41	1200	200	200		No Message
13TH FLOOR	PW50	0.42	1200	200	200		No Message
12TH FLOOR	PW50	0.5	1200	200	200		No Message
11TH FLOOR	PW50	0.76	1200	200	300		No Message
10TH FLOOR	PW50	1.03	1200	200	300		No Message
9TH FLOOR	PW50	1.33	1200	200	300	200	No Message
8TH FLOOR	PW50	1.69	1200	200	300	200	No Message
7TH FLOOR	PW50	2.01	1200	200	400	200	No Message
6TH FLOOR	PW50	1.61	1200	200	400	200	No Message
5TH FLOOR	PW50	1.92	1200	200	400	300	No Message
4TH FLOOR	PW50	2.3	1200	200	400	200	No Message
3RD FLOOR	PW50	2.56	1200	200	400	400	No Message
2ND FLOOR	PW50	0.55	1200	300	300	300	No Message
1ST FLOOR	PW50	0.25	1200	300	300	300	No Message
STILT FLOOR	PW50	0.59	1200	300	450	450	No Message
TERRACE	PW51	0.4	1250	200			No Message
16TH FLOOR	PW51	0.27	1250	200			No Message
15TH FLOOR	PW51	0.35	1250	200			No Message
14TH FLOOR	PW51	0.37	1250	200	200		No Message
13TH FLOOR	PW51	0.38	1250	200	200		No Message
12TH FLOOR	PW51	0.41	1250	200	200		No Message
11TH FLOOR	PW51	0.57	1250	200	300		No Message
10TH FLOOR	PW51	0.8	1250	200	300		No Message
9TH FLOOR	PW51	1.06	1250	200	300		No Message
8TH FLOOR	PW51	1.33	1250	200	300	200	No Message
7TH FLOOR	PW51	1.62	1250	200	400	200	No Message

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6TH FLOOR	PW51	1.2	1250	200	300		No Message
5TH FLOOR	PW51	1.43	1250	200	400	200	No Message
4TH FLOOR	PW51	1.74	1250	200	400	200	No Message
3RD FLOOR	PW51	1.93	1250	200	400	400	No Message
2ND FLOOR	PW51	0.29	1250	300	300	300	No Message
1ST FLOOR	PW51	0.25	1250	300	300	300	No Message
STILT FLOOR	PW51	0.25	1250	300	300	300	No Message
TERRACE	PW52	0.31	1250	200			No Message
16TH FLOOR	PW52	0.31	1250	200			No Message
15TH FLOOR	PW52	0.37	1250	200			No Message
14TH FLOOR	PW52	0.39	1250	200	200		No Message
13TH FLOOR	PW52	0.41	1250	200	200		No Message
12TH FLOOR	PW52	0.41	1250	200	200		No Message
11TH FLOOR	PW52	0.5	1250	200	200	200	No Message
10TH FLOOR	PW52	0.72	1250	200	300	200	No Message
9TH FLOOR	PW52	0.98	1250	200	300	300	No Message
8TH FLOOR	PW52	1.26	1250	200	300	300	No Message
7TH FLOOR	PW52	1.55	1250	200	300	300	No Message
6TH FLOOR	PW52	1.17	1250	200	300	300	No Message
5TH FLOOR	PW52	1.41	1250	200	300	300	No Message
4TH FLOOR	PW52	1.71	1250	200	400	300	No Message
3RD FLOOR	PW52	1.89	1250	200	400	300	No Message
2ND FLOOR	PW52	0.25	1250	300	300	300	No Message
1ST FLOOR	PW52	0.25	1250	300	300	300	No Message
STILT FLOOR	PW52	0.25	1250	300	300	300	No Message
TERRACE	PW53	0.43	1200	200			No Message
16TH FLOOR	PW53	0.38	1200	200			No Message
15TH FLOOR	PW53	0.43	1200	200	200		No Message
14TH FLOOR	PW53	0.44	1200	200	200		No Message
13TH FLOOR	PW53	0.46	1200	200	200		No Message
12TH FLOOR	PW53	0.48	1200	200	200		No Message
11TH FLOOR	PW53	0.65	1200	200	200		No Message
10TH FLOOR	PW53	0.86	1200	200	300		No Message
9TH FLOOR	PW53	1.12	1200	200	300		No Message
8TH FLOOR	PW53	1.38	1200	200	300		No Message
7TH FLOOR	PW53	1.64	1200	200	400		No Message
6TH FLOOR	PW53	1.22	1200	200	300		No Message
5TH FLOOR	PW53	1.45	1200	200	400	200	No Message
4TH FLOOR	PW53	1.72	1200	200	400	200	No Message
3RD FLOOR	PW53	1.9	1200	200	400	200	No Message
2ND FLOOR	PW53	0.27	1200	300	300	300	No Message
1ST FLOOR	PW53	0.25	1200	300	300	300	No Message
STILT FLOOR	PW53	0.25	1200	300	300	300	No Message
TERRACE	PW54	0.34	1250	200			No Message
16TH FLOOR	PW54	0.29	1250	200			No Message

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15TH FLOOR	PW54	0.36	1250	200			No Message
14TH FLOOR	PW54	0.38	1250	200	200		No Message
13TH FLOOR	PW54	0.39	1250	200	200		No Message
12TH FLOOR	PW54	0.39	1250	200	200		No Message
11TH FLOOR	PW54	0.51	1250	200	200		No Message
10TH FLOOR	PW54	0.73	1250	200	300		No Message
9TH FLOOR	PW54	0.95	1250	200	300		No Message
8TH FLOOR	PW54	1.21	1250	200	300		No Message
7TH FLOOR	PW54	1.45	1250	200	300	200	No Message
6TH FLOOR	PW54	1.05	1250	200	300		No Message
5TH FLOOR	PW54	1.24	1250	200	400	200	No Message
4TH FLOOR	PW54	1.54	1250	200	400	200	No Message
3RD FLOOR	PW54	1.69	1250	200	400	200	No Message
2ND FLOOR	PW54	0.25	1250	300	300	300	No Message
1ST FLOOR	PW54	0.25	1250	300	300	300	No Message
STILT FLOOR	PW54	0.25	1250	300	300	300	No Message
TERRACE	PW55	0.34	1250	200			No Message
16TH FLOOR	PW55	0.34	1250	200			No Message
15TH FLOOR	PW55	0.4	1250	200			No Message
14TH FLOOR	PW55	0.41	1250	200	200		No Message
13TH FLOOR	PW55	0.42	1250	200	200		No Message
12TH FLOOR	PW55	0.43	1250	200	200		No Message
11TH FLOOR	PW55	0.51	1250	200	200		No Message
10TH FLOOR	PW55	0.74	1250	200	300	200	No Message
9TH FLOOR	PW55	0.99	1250	200	300	300	No Message
8TH FLOOR	PW55	1.27	1250	200	300	300	No Message
7TH FLOOR	PW55	1.55	1250	200	300	300	No Message
6TH FLOOR	PW55	1.18	1250	200	300	300	No Message
5TH FLOOR	PW55	1.41	1250	200	300	300	No Message
4TH FLOOR	PW55	1.71	1250	200	400	300	No Message
3RD FLOOR	PW55	1.88	1250	200	400	300	No Message
2ND FLOOR	PW55	0.25	1250	300	300	300	No Message
1ST FLOOR	PW55	0.25	1250	300	300	300	No Message
STILT FLOOR	PW55	0.25	1250	300	300	300	No Message
TERRACE	PW56	0.44	1200	200			No Message
16TH FLOOR	PW56	0.39	1200	200			No Message
15TH FLOOR	PW56	0.44	1200	200	200		No Message
14TH FLOOR	PW56	0.45	1200	200	200		No Message
13TH FLOOR	PW56	0.47	1200	200	200		No Message
12TH FLOOR	PW56	0.5	1200	200	200		No Message
11TH FLOOR	PW56	0.68	1200	200	200		No Message
10TH FLOOR	PW56	0.9	1200	200	300		No Message
9TH FLOOR	PW56	1.16	1200	200	300		No Message
8TH FLOOR	PW56	1.42	1200	200	300		No Message
7TH FLOOR	PW56	1.68	1200	200	300		No Message

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6TH FLOOR	PW56	1.16	1200	200	400		No Message
5TH FLOOR	PW56	1.48	1200	200	400	200	No Message
4TH FLOOR	PW56	1.78	1200	200	400	200	No Message
3RD FLOOR	PW56	1.89	1200	200	400	200	No Message
2ND FLOOR	PW56	0.45	1200	300	300	300	No Message
1ST FLOOR	PW56	0.25	1200	300	300	300	No Message
STILT FLOOR	PW56	0.25	1200	300	300	300	No Message
TERRACE	PW57	0.4	1250	200			No Message
16TH FLOOR	PW57	0.31	1250	200			No Message
15TH FLOOR	PW57	0.37	1250	200			No Message
14TH FLOOR	PW57	0.39	1250	200	200		No Message
13TH FLOOR	PW57	0.4	1250	200	200		No Message
12TH FLOOR	PW57	0.42	1250	200	200		No Message
11TH FLOOR	PW57	0.58	1250	200	300		No Message
10TH FLOOR	PW57	0.8	1250	200	300		No Message
9TH FLOOR	PW57	1.06	1250	200	300		No Message
8TH FLOOR	PW57	1.31	1250	200	300		No Message
7TH FLOOR	PW57	1.61	1250	200	400		No Message
6TH FLOOR	PW57	1.16	1250	200	300		No Message
5TH FLOOR	PW57	1.47	1250	200	400	200	No Message
4TH FLOOR	PW57	1.71	1250	200	300	300	No Message
3RD FLOOR	PW57	2.09	1250	200	400	300	No Message
2ND FLOOR	PW57	0.25	1250	400	400	400	No Message
1ST FLOOR	PW57	0.25	1250	450	450	450	No Message
STILT FLOOR	PW57	0.25	1250	450	450	450	No Message
TERRACE	PW58	0.4	1250	200			No Message
16TH FLOOR	PW58	0.35	1250	200			No Message
15TH FLOOR	PW58	0.41	1250	200			No Message
14TH FLOOR	PW58	0.42	1250	200	200		No Message
13TH FLOOR	PW58	0.44	1250	200	200		No Message
12TH FLOOR	PW58	0.45	1250	200	200		No Message
11TH FLOOR	PW58	0.52	1250	200	200		No Message
10TH FLOOR	PW58	0.75	1250	200	300		No Message
9TH FLOOR	PW58	1	1250	200	300	300	No Message
8TH FLOOR	PW58	1.26	1250	200	300	300	No Message
7TH FLOOR	PW58	1.56	1250	200	300	300	No Message
6TH FLOOR	PW58	1.18	1250	200	300	300	No Message
5TH FLOOR	PW58	1.42	1250	200	300	300	No Message
4TH FLOOR	PW58	1.72	1250	200	300	300	No Message
3RD FLOOR	PW58	2.05	1250	200	400	200	No Message
2ND FLOOR	PW58	0.25	1250	400	400	400	No Message
1ST FLOOR	PW58	0.25	1250	450	450	450	No Message
STILT FLOOR	PW58	0.25	1250	450	450	450	No Message
TERRACE	PW59	0.37	1250	200			No Message
16TH FLOOR	PW59	0.34	1250	200			No Message

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15TH FLOOR	PW59	0.41	1250	200			No Message
14TH FLOOR	PW59	0.42	1250	200	200		No Message
13TH FLOOR	PW59	0.44	1250	200	200		No Message
12TH FLOOR	PW59	0.45	1250	200	200		No Message
11TH FLOOR	PW59	0.47	1250	200	200	200	No Message
10TH FLOOR	PW59	0.67	1250	200	300	200	No Message
9TH FLOOR	PW59	0.88	1250	200	300	200	No Message
8TH FLOOR	PW59	1.14	1250	200	300	300	No Message
7TH FLOOR	PW59	1.38	1250	200	300	300	No Message
6TH FLOOR	PW59	0.96	1250	200	300	300	No Message
5TH FLOOR	PW59	1.19	1250	200	300	300	No Message
4TH FLOOR	PW59	1.45	1250	200	300	300	No Message
3RD FLOOR	PW59	1.67	1250	200	400	300	No Message
2ND FLOOR	PW59	0.25	1250	400	400	400	No Message
1ST FLOOR	PW59	0.25	1250	450	450	450	No Message
STILT FLOOR	PW59	0.25	1250	450	450	450	No Message
TERRACE	PW60	0.5	1400	200			No Message
16TH FLOOR	PW60	0.38	1400	200			No Message
15TH FLOOR	PW60	0.39	1400	200			No Message
14TH FLOOR	PW60	0.37	1400	200	200		No Message
13TH FLOOR	PW60	0.39	1400	200	200		No Message
12TH FLOOR	PW60	0.4	1400	200	200		No Message
11TH FLOOR	PW60	0.5	1400	200	300		No Message
10TH FLOOR	PW60	0.73	1400	200	300		No Message
9TH FLOOR	PW60	0.98	1400	200	300	200	No Message
8TH FLOOR	PW60	1.28	1400	200	400	200	No Message
7TH FLOOR	PW60	1.55	1400	200	400	300	No Message
6TH FLOOR	PW60	1.13	1400	200	400	300	No Message
5TH FLOOR	PW60	1.35	1400	200	400	300	No Message
4TH FLOOR	PW60	1.67	1400	200	400	300	No Message
3RD FLOOR	PW60	1.85	1400	200	400	400	No Message
2ND FLOOR	PW60	0.25	1400	407.1	407.1	407.1	No Message
1ST FLOOR	PW60	3.72	1400	455.4	455.4	455.4	No Message
STILT FLOOR	PW60	0.25	1400	455.4	455.4	455.4	No Message
TERRACE	PW61	0.8	1400	200			No Message
16TH FLOOR	PW61	0.6	1400	200			No Message
15TH FLOOR	PW61	0.52	1400	200	200		No Message
14TH FLOOR	PW61	0.48	1400	200	200		No Message
13TH FLOOR	PW61	0.44	1400	200	200		No Message
12TH FLOOR	PW61	0.56	1400	200	300		No Message
11TH FLOOR	PW61	0.84	1400	200	300		No Message
10TH FLOOR	PW61	1.2	1400	200	300	200	No Message
9TH FLOOR	PW61	1.58	1400	200	400	200	No Message
8TH FLOOR	PW61	1.98	1400	200	400	300	No Message
7TH FLOOR	PW61	2.35	1400	200	500	300	No Message

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6TH FLOOR	PW61	1.96	1400	200	400	400	No Message
5TH FLOOR	PW61	2.37	1400	200	500	300	No Message
4TH FLOOR	PW61	2.85	1400	200	500	400	No Message
3RD FLOOR	PW61	3.14	1400	200	600	300	No Message
2ND FLOOR	PW61	3.85	1400	407.1	407.1	407.1	No Message
1ST FLOOR	PW61	0.25	1400	455.4	455.4	455.4	No Message
STILT FLOOR	PW61	0.25	1400	455.4	455.4	455.4	No Message
TERRACE	PW62	0.98	1200	200			No Message
16TH FLOOR	PW62	0.71	1200	200			No Message
15TH FLOOR	PW62	0.69	1200	200			No Message
14TH FLOOR	PW62	0.55	1200	200	200		No Message
13TH FLOOR	PW62	0.49	1200	200	200		No Message
12TH FLOOR	PW62	0.44	1200	200	200		No Message
11TH FLOOR	PW62	0.41	1200	200	200	200	No Message
10TH FLOOR	PW62	0.49	1200	200	300	200	No Message
9TH FLOOR	PW62	0.71	1200	200	300	300	No Message
8TH FLOOR	PW62	1.02	1200	200	300	300	No Message
7TH FLOOR	PW62	1.3	1200	200	300	300	No Message
6TH FLOOR	PW62	0.81	1200	200	300	300	No Message
5TH FLOOR	PW62	1.07	1200	200	300	300	No Message
4TH FLOOR	PW62	1.29	1200	200	400	300	No Message
3RD FLOOR	PW62	2.11	1200	200	400	300	No Message
2ND FLOOR	PW62	0.25	1200	300	300	300	No Message
1ST FLOOR	PW62	0.25	1200	300	300	300	No Message
STILT FLOOR	PW62	0.25	1200	300	300	300	No Message
1ST FLOOR	PW71	0.65	1250	300			No Message
STILT FLOOR	PW71	0.51	1250	300			No Message
2ND FLOOR	PW72	0.74	1250	200			No Message
1ST FLOOR	PW72	0.38	1250	300			No Message
STILT FLOOR	PW72	0.67	1250	300			No Message
2ND FLOOR	PW74	0.65	1250	400			No Message
1ST FLOOR	PW74	0.25	1250	450			No Message
STILT FLOOR	PW74	0.66	1250	450			No Message
2ND FLOOR	PW75	0.72	1250	400			No Message
1ST FLOOR	PW75	0.25	1250	450			No Message
STILT FLOOR	PW75	0.52	1250	450			No Message
2ND FLOOR	PW76	0.8	1200	400	400		No Message
1ST FLOOR	PW76	0.25	1200	450			No Message
STILT FLOOR	PW76	0.56	1200	450			No Message
2ND FLOOR	PW77	0.81	1200	400			No Message
1ST FLOOR	PW77	0.25	1200	450			No Message
STILT FLOOR	PW77	0.56	1200	450			No Message
2ND FLOOR	PW78	0.78	1250	400			No Message
1ST FLOOR	PW78	0.46	1250	450			No Message
STILT FLOOR	PW78	0.68	1250	450			No Message

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2ND FLOOR	PW79	0.37	800	200			No Message
1ST FLOOR	PW79	0.42	800	300			No Message
STILT FLOOR	PW79	0.46	800	300			No Message

TABLE: Shear Wall Pier Design Summary - IS 456 2000 Tower B

Story	Pier Label	Required Reinf. Percentage	Length	Thickness	B Zone Left	B Zone Right	Warnings
		%	mm	mm	mm	mm	
1ST FLOOR	PW53	0.73	1200	300			No Message
STILT FLOOR	PW53	0.49	1200	300			No Message
1ST FLOOR	PW54	0.64	1250	300			No Message
STILT FLOOR	PW54	0.47	1250	300			No Message
1ST FLOOR	PW55	0.72	1250	300			No Message
STILT FLOOR	PW55	0.52	1250	300			No Message
2ND FLOOR	PW56	0.87	1200	200			No Message
1ST FLOOR	PW56	0.75	1200	300			No Message
STILT FLOOR	PW56	0.57	1200	300			No Message
2ND FLOOR	PW57	0.5	1250	400			No Message
1ST FLOOR	PW57	0.38	1250	450			No Message
STILT FLOOR	PW57	0.6	1250	450			No Message
2ND FLOOR	PW58	0.45	1250	400			No Message
1ST FLOOR	PW58	0.25	1250	450			No Message
STILT FLOOR	PW58	0.68	1250	450			No Message
2ND FLOOR	PW59	0.47	1250	400			No Message
1ST FLOOR	PW59	0.26	1250	450			No Message
STILT FLOOR	PW59	0.67	1250	450			No Message
2ND FLOOR	PW60	0.53	1250	400			No Message
1ST FLOOR	PW60	0.34	1250	450			No Message
STILT FLOOR	PW60	0.49	1250	450			No Message
2ND FLOOR	PW61	0.51	1250	400			No Message
1ST FLOOR	PW61	0.43	1250	450			No Message
STILT FLOOR	PW61	0.56	1250	450			No Message
2ND FLOOR	PW62	0.71	1200	200			No Message
1ST FLOOR	PW62	0.25	1200	300			No Message
STILT FLOOR	PW62	0.65	1200	300			No Message
TERRACE	PW63	0.51	800	200			No Message
16TH FLOOR	PW63	0.32	800	200			No Message
15TH FLOOR	PW63	0.32	800	200		200	No Message
14TH FLOOR	PW63	0.26	800	200			No Message
13TH FLOOR	PW63	0.25	800	200		200	No Message
12TH FLOOR	PW63	0.25	800	200		200	No Message
11TH FLOOR	PW63	0.29	800	200		200	No Message
10TH FLOOR	PW63	0.5	800	200		200	No Message
9TH FLOOR	PW63	0.75	800	200	200	200	No Message
8TH FLOOR	PW63	1.07	800	200	200	200	No Message

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7TH FLOOR	PW63	1.31	800	200	200	200	No Message
6TH FLOOR	PW63	1.02	800	200	200	200	No Message
5TH FLOOR	PW63	1.14	800	200	200	200	No Message
4TH FLOOR	PW63	1.78	800	200	200	300	No Message
3RD FLOOR	PW63	2.01	800	200	300	200	No Message
2ND FLOOR	PW63	1.75	1200	200	300	300	No Message
1ST FLOOR	PW63	0.29	1200	300	300	300	No Message
STILT FLOOR	PW63	0.76	1200	300	300	300	No Message
TERRACE	PW64	0.49	1200	200			No Message
16TH FLOOR	PW64	0.33	1200	200			No Message
15TH FLOOR	PW64	0.31	1200	200			No Message
14TH FLOOR	PW64	0.28	1200	200		200	No Message
13TH FLOOR	PW64	0.26	1200	200		200	No Message
12TH FLOOR	PW64	0.26	1200	200	200	200	No Message
11TH FLOOR	PW64	0.45	1200	200	200	200	No Message
10TH FLOOR	PW64	0.7	1200	200	200	200	No Message
9TH FLOOR	PW64	0.95	1200	200	300	300	No Message
8TH FLOOR	PW64	1.25	1200	200	300	300	No Message
7TH FLOOR	PW64	1.56	1200	200	300	400	No Message
6TH FLOOR	PW64	1.08	1200	200	200	300	No Message
5TH FLOOR	PW64	1.34	1200	200	300	300	No Message
4TH FLOOR	PW64	1.77	1200	200	200	400	No Message
3RD FLOOR	PW64	2.14	1200	200	400	300	No Message
2ND FLOOR	PW64	2.7	1600	200	400	400	No Message
1ST FLOOR	PW64	0.25	1600	300	300	450	No Message
STILT FLOOR	PW64	0.73	1600	300	450	450	No Message
TERRACE	PW65	0.51	1250	200			No Message
16TH FLOOR	PW65	0.31	1250	200			No Message
15TH FLOOR	PW65	0.26	1250	200			No Message
14TH FLOOR	PW65	0.25	1250	200	200	200	No Message
13TH FLOOR	PW65	0.25	1250	200	200	200	No Message
12TH FLOOR	PW65	0.37	1250	200	200	300	No Message
11TH FLOOR	PW65	0.66	1250	200	200	300	No Message
10TH FLOOR	PW65	1.05	1250	200	300	300	No Message
9TH FLOOR	PW65	1.46	1250	200	400	400	No Message
8TH FLOOR	PW65	2.02	1250	200	300	400	No Message
7TH FLOOR	PW65	2.41	1250	200	500	400	No Message
6TH FLOOR	PW65	2.77	1250	200	300	500	No Message
5TH FLOOR	PW65	0.41	2200	200	400	500	No Message
4TH FLOOR	PW65	0.4	2200	200	500	500	No Message
3RD FLOOR	PW65	1.01	2200	200	600	600	No Message
2ND FLOOR	PW65	3.53	2200	200	600	600	No Message
1ST FLOOR	PW65	0.37	2200	300	450	450	No Message
STILT FLOOR	PW65	0.85	2200	300	600	600	No Message
TERRACE	PW66	0.8	800	200			No Message

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16TH FLOOR	PW66	0.52	800	200			No Message
15TH FLOOR	PW66	0.49	800	200			No Message
14TH FLOOR	PW66	0.35	800	200			No Message
13TH FLOOR	PW66	0.25	800	200		200	No Message
12TH FLOOR	PW66	0.25	800	200		200	No Message
11TH FLOOR	PW66	0.27	800	200		200	No Message
10TH FLOOR	PW66	0.43	800	200		200	No Message
9TH FLOOR	PW66	0.69	800	200	200	200	No Message
8TH FLOOR	PW66	0.98	800	200		200	No Message
7TH FLOOR	PW66	1.26	800	200	200	200	No Message
6TH FLOOR	PW66	0.79	800	200		200	No Message
5TH FLOOR	PW66	0.76	800	200	200	200	No Message
4TH FLOOR	PW66	1.64	800	200		300	No Message
3RD FLOOR	PW66	1.44	800	200	300		No Message
2ND FLOOR	PW66	1.85	1175	200	300	300	No Message
1ST FLOOR	PW66	0.25	1175	300		300	No Message
STILT FLOOR	PW66	0.48	1175	300	300	300	No Message
TERRACE	PW67	0.51	1250	200			No Message
16TH FLOOR	PW67	0.34	1250	200			No Message
15TH FLOOR	PW67	0.28	1250	200			No Message
14TH FLOOR	PW67	0.25	1250	200		200	No Message
13TH FLOOR	PW67	0.25	1250	200		200	No Message
12TH FLOOR	PW67	0.3	1250	200	200	200	No Message
11TH FLOOR	PW67	0.51	1250	200	200	300	No Message
10TH FLOOR	PW67	0.8	1250	200	300	300	No Message
9TH FLOOR	PW67	1.14	1250	200	300	300	No Message
8TH FLOOR	PW67	1.49	1250	200	300	400	No Message
7TH FLOOR	PW67	1.82	1250	200	300	400	No Message
6TH FLOOR	PW67	1.39	1250	200	300	400	No Message
5TH FLOOR	PW67	1.73	1250	200	300	300	No Message
4TH FLOOR	PW67	2.13	1250	200	300	400	No Message
3RD FLOOR	PW67	2.66	1250	200	500	300	No Message
2ND FLOOR	PW67	2.98	1600	200	500	500	No Message
1ST FLOOR	PW67	0.25	1600	300	300	450	No Message
STILT FLOOR	PW67	0.25	1600	300	450	450	No Message
TERRACE	PW68	0.25	1850	200			No Message
16TH FLOOR	PW68	0.25	1850	200			No Message
15TH FLOOR	PW68	0.25	1850	200			No Message
14TH FLOOR	PW68	0.25	1850	200		200	No Message
13TH FLOOR	PW68	0.25	1850	200		300	No Message
12TH FLOOR	PW68	0.25	1850	200	300	300	No Message
11TH FLOOR	PW68	0.25	1850	200	300	300	No Message
10TH FLOOR	PW68	0.36	1850	200	300	400	No Message
9TH FLOOR	PW68	0.62	1850	200	400	400	No Message
8TH FLOOR	PW68	0.92	1850	200	400	500	No Message

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7TH FLOOR	PW68	1.2	1850	200	500	500	No Message
6TH FLOOR	PW68	0.73	1850	200	400	500	No Message
5TH FLOOR	PW68	0.99	1850	200	500	500	No Message
4TH FLOOR	PW68	1.35	1850	200	500	600	No Message
3RD FLOOR	PW68	2	1850	200	600	600	No Message
2ND FLOOR	PW68	0.59	1850	300	450	450	No Message
1ST FLOOR	PW68	0.25	1850	300	450	450	No Message
STILT FLOOR	PW68	0.94	1850	300	600	600	No Message
TERRACE	PW69	0.68	1250	200			No Message
16TH FLOOR	PW69	0.5	1250	200			No Message
15TH FLOOR	PW69	0.44	1250	200			No Message
14TH FLOOR	PW69	0.32	1250	200		200	No Message
13TH FLOOR	PW69	0.25	1250	200		200	No Message
12TH FLOOR	PW69	0.25	1250	200		200	No Message
11TH FLOOR	PW69	0.25	1250	200		300	No Message
10TH FLOOR	PW69	0.44	1250	200		300	No Message
9TH FLOOR	PW69	0.69	1250	200		300	No Message
8TH FLOOR	PW69	0.97	1250	200	200	300	No Message
7TH FLOOR	PW69	1.26	1250	200	200	400	No Message
6TH FLOOR	PW69	0.78	1250	200	200	300	No Message
5TH FLOOR	PW69	0.9	1250	200	300	300	No Message
4TH FLOOR	PW69	1.57	1250	200	200	400	No Message
3RD FLOOR	PW69	1.69	1250	200	400	200	No Message
2ND FLOOR	PW69	2.72	1600	200	400	400	No Message
1ST FLOOR	PW69	0.25	1600	300	300	450	No Message
STILT FLOOR	PW69	0.42	1600	300	450	450	No Message
TERRACE	PW70	0.3	1250	200			No Message
16TH FLOOR	PW70	0.25	1250	200			No Message
15TH FLOOR	PW70	0.25	1250	200			No Message
14TH FLOOR	PW70	0.25	1250	200			No Message
13TH FLOOR	PW70	0.25	1250	200		200	No Message
12TH FLOOR	PW70	0.25	1250	200	200	200	No Message
11TH FLOOR	PW70	0.25	1250	200	200	200	No Message
10TH FLOOR	PW70	0.25	1250	200	200	200	No Message
9TH FLOOR	PW70	0.52	1250	200	300	300	No Message
8TH FLOOR	PW70	0.84	1250	200	300	300	No Message
7TH FLOOR	PW70	1.14	1250	200	300	400	No Message
6TH FLOOR	PW70	0.62	1250	200	300	300	No Message
5TH FLOOR	PW70	0.79	1250	200	300	300	No Message
4TH FLOOR	PW70	1.25	1250	200	300	400	No Message
3RD FLOOR	PW70	1.46	1250	200	400	400	No Message
2ND FLOOR	PW70	0.25	1250	300	300	300	No Message
1ST FLOOR	PW70	0.25	1250	300	300	300	No Message
STILT FLOOR	PW70	0.25	1250	300	300	300	No Message
TERRACE	PW71	0.32	1250	200			No Message

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16TH FLOOR	PW71	0.25	1250	200			No Message
15TH FLOOR	PW71	0.25	1250	200			No Message
14TH FLOOR	PW71	0.25	1250	200		200	No Message
13TH FLOOR	PW71	0.27	1250	200		200	No Message
12TH FLOOR	PW71	0.27	1250	200		300	No Message
11TH FLOOR	PW71	0.5	1250	200		300	No Message
10TH FLOOR	PW71	0.82	1250	200	300	300	No Message
9TH FLOOR	PW71	1.18	1250	200	300	400	No Message
8TH FLOOR	PW71	1.56	1250	200	300	400	No Message
7TH FLOOR	PW71	1.9	1250	200	400	400	No Message
6TH FLOOR	PW71	1.5	1250	200	400	400	No Message
5TH FLOOR	PW71	1.83	1250	200	400	400	No Message
4TH FLOOR	PW71	2.35	1250	200	400	500	No Message
3RD FLOOR	PW71	2.88	1250	200	400	500	No Message
2ND FLOOR	PW71	0.83	1250	300	300	300	No Message
1ST FLOOR	PW71	0.58	1250	300	300	300	No Message
STILT FLOOR	PW71	1.08	1250	300	450	450	No Message
TERRACE	PW72	0.85	1250	200			No Message
16TH FLOOR	PW72	0.66	1250	200			No Message
15TH FLOOR	PW72	0.54	1250	200			No Message
14TH FLOOR	PW72	0.46	1250	200		200	No Message
13TH FLOOR	PW72	0.39	1250	200		200	No Message
12TH FLOOR	PW72	0.34	1250	200		200	No Message
11TH FLOOR	PW72	0.37	1250	200		300	No Message
10TH FLOOR	PW72	0.5	1250	200		300	No Message
9TH FLOOR	PW72	0.78	1250	200	200	300	No Message
8TH FLOOR	PW72	1.1	1250	200	200	300	No Message
7TH FLOOR	PW72	1.4	1250	200	200	400	No Message
6TH FLOOR	PW72	0.91	1250	200	200	400	No Message
5TH FLOOR	PW72	1.2	1250	200	300	400	No Message
4TH FLOOR	PW72	1.46	1250	200	400	400	No Message
3RD FLOOR	PW72	2.12	1250	200	400	400	No Message
2ND FLOOR	PW72	0.65	1250	300	300	300	No Message
1ST FLOOR	PW72	0.25	1250	300	300	300	No Message
STILT FLOOR	PW72	0.52	1250	300	300	450	No Message
TERRACE	PW73	0.25	1250	200			No Message
16TH FLOOR	PW73	0.25	1250	200			No Message
15TH FLOOR	PW73	0.25	1250	200			No Message
14TH FLOOR	PW73	0.25	1250	200			No Message
13TH FLOOR	PW73	0.25	1250	200		200	No Message
12TH FLOOR	PW73	0.25	1250	200		200	No Message
11TH FLOOR	PW73	0.25	1250	200	200	200	No Message
10TH FLOOR	PW73	0.25	1250	200	200	300	No Message
9TH FLOOR	PW73	0.46	1250	200	300	300	No Message
8TH FLOOR	PW73	0.77	1250	200	300	300	No Message

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7TH FLOOR	PW73	1.07	1250	200	300	300	No Message
6TH FLOOR	PW73	0.54	1250	200	300	300	No Message
5TH FLOOR	PW73	0.83	1250	200	300	300	No Message
4TH FLOOR	PW73	1.17	1250	200	300	400	No Message
3RD FLOOR	PW73	1.4	1250	200	300	400	No Message
2ND FLOOR	PW73	0.25	1250	300	300	300	No Message
1ST FLOOR	PW73	0.25	1250	300	300	300	No Message
STILT FLOOR	PW73	0.25	1250	300	300	300	No Message
TERRACE	PW74	0.25	1600	200			No Message
16TH FLOOR	PW74	0.25	1600	200			No Message
15TH FLOOR	PW74	0.25	1600	200			No Message
14TH FLOOR	PW74	0.25	1600	200		200	No Message
13TH FLOOR	PW74	0.25	1600	200		200	No Message
12TH FLOOR	PW74	0.25	1600	200	200	300	No Message
11TH FLOOR	PW74	0.25	1600	200	300	300	No Message
10TH FLOOR	PW74	0.48	1600	200	300	400	No Message
9TH FLOOR	PW74	0.78	1600	200	400	400	No Message
8TH FLOOR	PW74	1.11	1600	200	400	400	No Message
7TH FLOOR	PW74	1.4	1600	200	400	500	No Message
6TH FLOOR	PW74	0.94	1600	200	400	500	No Message
5TH FLOOR	PW74	1.28	1600	200	400	500	No Message
4TH FLOOR	PW74	1.62	1600	200	500	500	No Message
3RD FLOOR	PW74	2.91	1600	200	300	600	No Message
2ND FLOOR	PW74	0.25	1600	356.3	356.3	356.3	No Message
1ST FLOOR	PW74	0.25	1600	417.2	417.2	417.2	No Message
STILT FLOOR	PW74	0.25	1600	417.2	417.2	417.2	No Message
TERRACE	PW75	0.8	1250	200			No Message
16TH FLOOR	PW75	0.63	1250	200			No Message
15TH FLOOR	PW75	0.51	1250	200			No Message
14TH FLOOR	PW75	0.46	1250	200		200	No Message
13TH FLOOR	PW75	0.37	1250	200		200	No Message
12TH FLOOR	PW75	0.31	1250	200		200	No Message
11TH FLOOR	PW75	0.28	1250	200	200	200	No Message
10TH FLOOR	PW75	0.41	1250	200	200	300	No Message
9TH FLOOR	PW75	0.63	1250	200	300	300	No Message
8TH FLOOR	PW75	0.9	1250	200	300	300	No Message
7TH FLOOR	PW75	1.3	1250	200	300	400	No Message
6TH FLOOR	PW75	0.77	1250	200	300	300	No Message
5TH FLOOR	PW75	1.18	1250	200	300	400	No Message
4TH FLOOR	PW75	1.24	1250	200	300	400	No Message
3RD FLOOR	PW75	2.07	1250	200	300	400	No Message
2ND FLOOR	PW75	0.25	1250	450	450	450	No Message
1ST FLOOR	PW75	0.25	1250	450	450	450	No Message
STILT FLOOR	PW75	0.25	1250	450	450	450	No Message
TERRACE	PW76	0.61	1300	1200			No Message

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16TH FLOOR	PW76	0.44	1300	200			No Message
15TH FLOOR	PW76	0.39	1300	200			No Message
14TH FLOOR	PW76	0.3	1300	200			No Message
13TH FLOOR	PW76	0.25	1300	200		200	No Message
12TH FLOOR	PW76	0.25	1300	200		200	No Message
11TH FLOOR	PW76	0.25	1300	200		200	No Message
10TH FLOOR	PW76	0.25	1300	200	200	200	No Message
9TH FLOOR	PW76	0.25	1300	200	200	300	No Message
8TH FLOOR	PW76	0.36	1300	200	200	300	No Message
7TH FLOOR	PW76	0.45	1300	200	300	300	No Message
6TH FLOOR	PW76	0.25	1300	200	200	300	No Message
5TH FLOOR	PW76	0.25	1300	200	300	300	No Message
4TH FLOOR	PW76	0.3	1300	200	300	300	No Message
3RD FLOOR	PW76	0.58	1300	200	300	400	No Message
2ND FLOOR	PW76	0.25	1300	384.6	384.6	384.6	No Message
1ST FLOOR	PW76	0.25	1300	438.5	438.5	438.5	No Message
STILT FLOOR	PW76	0.4	1300	438.5	438.5	438.5	No Message
TERRACE	PW77	0.76	1300	200			No Message
16TH FLOOR	PW77	0.55	1300	200			No Message
15TH FLOOR	PW77	0.51	1300	200		200	No Message
14TH FLOOR	PW77	0.46	1300	200		200	No Message
13TH FLOOR	PW77	0.41	1300	200		200	No Message
12TH FLOOR	PW77	0.46	1300	200		200	No Message
11TH FLOOR	PW77	0.62	1300	200		300	No Message
10TH FLOOR	PW77	0.85	1300	200		300	No Message
9TH FLOOR	PW77	1.1	1300	200		300	No Message
8TH FLOOR	PW77	1.38	1300	200		300	No Message
7TH FLOOR	PW77	1.64	1300	200	200	400	No Message
6TH FLOOR	PW77	1.26	1300	200		400	No Message
5TH FLOOR	PW77	1.49	1300	200	200	400	No Message
4TH FLOOR	PW77	1.84	1300	200	200	400	No Message
3RD FLOOR	PW77	1.86	1300	200	400	400	No Message
2ND FLOOR	PW77	0.25	1300	438.5	438.5	438.5	No Message
1ST FLOOR	PW77	0.25	1300	438.5	438.5	438.5	No Message
STILT FLOOR	PW77	0.25	1300	438.5	438.5	438.5	No Message
TERRACE	PW78	0.55	1700	200			No Message
16TH FLOOR	PW78	0.33	1700	200			No Message
15TH FLOOR	PW78	0.25	1700	200		200	No Message
14TH FLOOR	PW78	0.25	1700	200		200	No Message
13TH FLOOR	PW78	0.25	1700	200		300	No Message
12TH FLOOR	PW78	0.34	1700	200		300	No Message
11TH FLOOR	PW78	0.6	1700	200		400	No Message
10TH FLOOR	PW78	0.9	1700	200	200	400	No Message
9TH FLOOR	PW78	1.26	1700	200	300	400	No Message
8TH FLOOR	PW78	1.65	1700	200	300	500	No Message

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7TH FLOOR	PW78	2.03	1700	200	300	500	No Message
6TH FLOOR	PW78	1.59	1700	200	500	500	No Message
5TH FLOOR	PW78	1.98	1700	200	300	600	No Message
4TH FLOOR	PW78	2.38	1700	200	500	600	No Message
3RD FLOOR	PW78	3.02	1700	200		700	No Message
2ND FLOOR	PW78	0.67	1700	347.1	347.1	520.6	No Message
1ST FLOOR	PW78	0.25	1700	410.3	410.3	410.3	No Message
STILT FLOOR	PW78	0.25	1700	410.3	410.3	410.3	No Message
TERRACE	PW79	1.01	1000	200			No Message
16TH FLOOR	PW79	0.71	1000	200			No Message
15TH FLOOR	PW79	0.63	1000	200			No Message
14TH FLOOR	PW79	0.51	1000	200		200	No Message
13TH FLOOR	PW79	0.44	1000	200	200	200	No Message
12TH FLOOR	PW79	0.39	1000	200	200	200	No Message
11TH FLOOR	PW79	0.43	1000	200	200	200	No Message
10TH FLOOR	PW79	0.53	1000	200	200	200	No Message
9TH FLOOR	PW79	0.7	1000	200	200	200	No Message
8TH FLOOR	PW79	0.99	1000	200	200	300	No Message
7TH FLOOR	PW79	1.29	1000	200	300	300	No Message
6TH FLOOR	PW79	0.78	1000	200	200	200	No Message
5TH FLOOR	PW79	1.2	1000	200	300	300	No Message
4TH FLOOR	PW79	1.32	1000	200	300	300	No Message
3RD FLOOR	PW79	2.09	1000	200	400	300	No Message
2ND FLOOR	PW79	0.3	1000	300	300	300	No Message
1ST FLOOR	PW79	0.25	1000	300	300	300	No Message
STILT FLOOR	PW79	0.37	1000	300	300	300	No Message
TERRACE	PW80	0.33	1000	200			No Message
16TH FLOOR	PW80	0.25	1000	200			No Message
15TH FLOOR	PW80	0.25	1000	200			No Message
14TH FLOOR	PW80	0.25	1000	200			No Message
13TH FLOOR	PW80	0.25	1000	200			No Message
12TH FLOOR	PW80	0.25	1000	200	200		No Message
11TH FLOOR	PW80	0.25	1000	200	200	200	No Message
10TH FLOOR	PW80	0.25	1000	200	200	200	No Message
9TH FLOOR	PW80	0.25	1000	200	200	200	No Message
8TH FLOOR	PW80	0.38	1000	200	200	200	No Message
7TH FLOOR	PW80	0.55	1000	200	200	200	No Message
6TH FLOOR	PW80	0.25	1000	200	200	200	No Message
5TH FLOOR	PW80	0.3	1000	200	200	200	No Message
4TH FLOOR	PW80	0.48	1000	200	300	200	No Message
3RD FLOOR	PW80	0.83	1000	200	300	200	No Message
2ND FLOOR	PW80	2.71	1000	200	200	300	No Message
1ST FLOOR	PW80	0.25	1000	300	300	300	No Message
STILT FLOOR	PW80	0.43	1000	300	300	300	No Message
TERRACE	PW81	0.41	1400	200			No Message

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16TH FLOOR	PW81	0.25	1400	200			No Message
15TH FLOOR	PW81	0.25	1400	200			No Message
14TH FLOOR	PW81	0.25	1400	200			No Message
13TH FLOOR	PW81	0.25	1400	200	200		No Message
12TH FLOOR	PW81	0.25	1400	200	200		No Message
11TH FLOOR	PW81	0.25	1400	200	200	200	No Message
10TH FLOOR	PW81	0.25	1400	200	200	200	No Message
9TH FLOOR	PW81	0.25	1400	200	300	200	No Message
8TH FLOOR	PW81	0.37	1400	200	300	300	No Message
7TH FLOOR	PW81	0.53	1400	200	300	300	No Message
6TH FLOOR	PW81	0.25	1400	200	300	300	No Message
5TH FLOOR	PW81	0.28	1400	200	300	300	No Message
4TH FLOOR	PW81	0.48	1400	200	400	300	No Message
3RD FLOOR	PW81	0.77	1400	200	400	300	No Message
2ND FLOOR	PW81	2.91	1400	200	400	400	No Message
1ST FLOOR	PW81	0.25	1400	300	300	300	No Message
STILT FLOOR	PW81	0.56	1400	300	300	300	No Message
TERRACE	PW82	0.49	1700	200			No Message
16TH FLOOR	PW82	0.41	1700	200			No Message
15TH FLOOR	PW82	0.42	1700	200			No Message
14TH FLOOR	PW82	0.42	1700	200			No Message
13TH FLOOR	PW82	0.42	1700	200	200	200	No Message
12TH FLOOR	PW82	0.44	1700	200	300	300	No Message
11TH FLOOR	PW82	0.48	1700	200	300	300	No Message
10TH FLOOR	PW82	0.7	1700	200	300	300	No Message
9TH FLOOR	PW82	0.93	1700	200	400	400	No Message
8TH FLOOR	PW82	1.21	1700	200	400	400	No Message
7TH FLOOR	PW82	1.44	1700	200	400	400	No Message
6TH FLOOR	PW82	1.06	1700	200	400	400	No Message
5TH FLOOR	PW82	1.26	1700	200	400	400	No Message
4TH FLOOR	PW82	1.58	1700	200	500	500	No Message
3RD FLOOR	PW82	1.63	1700	200	500	500	No Message
2ND FLOOR	PW82	0.25	1700	300	300	450	No Message
1ST FLOOR	PW82	0.25	1700	300	450	300	No Message
STILT FLOOR	PW82	0.73	1700	300	450	450	No Message
TERRACE	PW83	0.47	1500	200			No Message
16TH FLOOR	PW83	0.25	1500	200			No Message
15TH FLOOR	PW83	0.25	1500	200			No Message
14TH FLOOR	PW83	0.25	1500	200		200	No Message
13TH FLOOR	PW83	0.25	1500	200	200	200	No Message
12TH FLOOR	PW83	0.25	1500	200	200	200	No Message
11TH FLOOR	PW83	0.25	1500	200	300	300	No Message
10TH FLOOR	PW83	0.28	1500	200	300	300	No Message
9TH FLOOR	PW83	0.51	1500	200	300	300	No Message
8TH FLOOR	PW83	0.8	1500	200	300	400	No Message

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7TH FLOOR	PW83	1.06	1500	200	400	400	No Message
6TH FLOOR	PW83	0.59	1500	200	400	400	No Message
5TH FLOOR	PW83	0.77	1500	200	400	400	No Message
4TH FLOOR	PW83	0.92	1500	200	400	400	No Message
3RD FLOOR	PW83	1.31	1500	200	400	500	No Message
2ND FLOOR	PW83	3.04	1500	200	500	500	No Message
1ST FLOOR	PW83	0.25	1500	300	450	450	No Message
STILT FLOOR	PW83	0.69	1500	300	450	450	No Message
TERRACE	PW84	0.38	1500	200			No Message
16TH FLOOR	PW84	0.37	1500	200			No Message
15TH FLOOR	PW84	0.43	1500	200			No Message
14TH FLOOR	PW84	0.46	1500	200			No Message
13TH FLOOR	PW84	0.47	1500	200			No Message
12TH FLOOR	PW84	0.48	1500	200	200	200	No Message
11TH FLOOR	PW84	0.49	1500	200	200	200	No Message
10TH FLOOR	PW84	0.7	1500	200	200	200	No Message
9TH FLOOR	PW84	0.92	1500	200	300	300	No Message
8TH FLOOR	PW84	1.17	1500	200	300	300	No Message
7TH FLOOR	PW84	1.4	1500	200	400	400	No Message
6TH FLOOR	PW84	1.04	1500	200	300	300	No Message
5TH FLOOR	PW84	1.23	1500	200	400	300	No Message
4TH FLOOR	PW84	1.46	1500	200	400	300	No Message
3RD FLOOR	PW84	1.81	1500	200	400	400	No Message
2ND FLOOR	PW84	2.98	1500	200	400	400	No Message
1ST FLOOR	PW84	0.25	1500	300	300	300	No Message
STILT FLOOR	PW84	0.26	1500	300	450	450	No Message
TERRACE	PW85	0.36	1200	200			No Message
16TH FLOOR	PW85	0.25	1200	200			No Message
15TH FLOOR	PW85	0.25	1200	200			No Message
14TH FLOOR	PW85	0.3	1200	200	200		No Message
13TH FLOOR	PW85	0.25	1200	200	200		No Message
12TH FLOOR	PW85	0.25	1200	200	200		No Message
11TH FLOOR	PW85	0.32	1200	200	200	200	No Message
10TH FLOOR	PW85	0.49	1200	200	300	200	No Message
9TH FLOOR	PW85	0.68	1200	200	300	200	No Message
8TH FLOOR	PW85	0.91	1200	200	300	200	No Message
7TH FLOOR	PW85	1.1	1200	200	300	300	No Message
6TH FLOOR	PW85	0.66	1200	200	300	300	No Message
5TH FLOOR	PW85	0.86	1200	200	300	300	No Message
4TH FLOOR	PW85	1.13	1200	200	400	300	No Message
3RD FLOOR	PW85	1.41	1200	200	400	300	No Message
2ND FLOOR	PW85	2.98	1200	200	400	300	No Message
1ST FLOOR	PW85	0.25	1200	300	300	300	No Message
STILT FLOOR	PW85	0.25	1200	300	300	300	No Message
TERRACE	PW86	0.63	1400	200			No Message

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16TH FLOOR	PW86	0.41	1400	200			No Message
15TH FLOOR	PW86	0.38	1400	200			No Message
14TH FLOOR	PW86	0.31	1400	200			No Message
13TH FLOOR	PW86	0.28	1400	200	200	200	No Message
12TH FLOOR	PW86	0.25	1400	200	200	200	No Message
11TH FLOOR	PW86	0.25	1400	200	200	300	No Message
10TH FLOOR	PW86	0.4	1400	200	300	300	No Message
9TH FLOOR	PW86	0.6	1400	200	300	300	No Message
8TH FLOOR	PW86	0.85	1400	200	300	300	No Message
7TH FLOOR	PW86	1.07	1400	200	400	400	No Message
6TH FLOOR	PW86	0.61	1400	200	300	300	No Message
5TH FLOOR	PW86	0.81	1400	200	400	400	No Message
4TH FLOOR	PW86	0.92	1400	200	400	400	No Message
3RD FLOOR	PW86	1.28	1400	200	400	400	No Message
2ND FLOOR	PW86	2.93	1400	200	500	500	No Message
1ST FLOOR	PW86	0.25	1400	300	300	300	No Message
STILT FLOOR	PW86	0.58	1400	300	450	450	No Message
TERRACE	PW87	0.55	1200	200			No Message
16TH FLOOR	PW87	0.46	1200	200			No Message
15TH FLOOR	PW87	0.49	1200	200			No Message
14TH FLOOR	PW87	0.51	1200	200	200		No Message
13TH FLOOR	PW87	0.53	1200	200	200		No Message
12TH FLOOR	PW87	0.57	1200	200	200	200	No Message
11TH FLOOR	PW87	0.8	1200	200	200	200	No Message
10TH FLOOR	PW87	1.07	1200	200	300	200	No Message
9TH FLOOR	PW87	1.36	1200	200	300	200	No Message
8TH FLOOR	PW87	1.71	1200	200	300	300	No Message
7TH FLOOR	PW87	2.01	1200	200	300	300	No Message
6TH FLOOR	PW87	1.67	1200	200	300	300	No Message
5TH FLOOR	PW87	1.95	1200	200	300	300	No Message
4TH FLOOR	PW87	2.32	1200	200	400	300	No Message
3RD FLOOR	PW87	2.43	1200	200	400	300	No Message
2ND FLOOR	PW87	0.5	1200	300	300	300	No Message
1ST FLOOR	PW87	0.25	1200	300	300	300	No Message
STILT FLOOR	PW87	0.25	1200	300	300	300	No Message
TERRACE	PW88	0.75	800	200	200		No Message
16TH FLOOR	PW88	0.41	800	200	200		No Message
15TH FLOOR	PW88	0.46	800	200	200		No Message
14TH FLOOR	PW88	0.45	800	200	200		No Message
13TH FLOOR	PW88	0.55	800	200	200		No Message
12TH FLOOR	PW88	0.69	800	200	200		No Message
11TH FLOOR	PW88	0.94	800	200	200		No Message
10TH FLOOR	PW88	1.22	800	200	200	200	No Message
9TH FLOOR	PW88	1.51	800	200	300	200	No Message
8TH FLOOR	PW88	1.85	800	200	300	200	No Message

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7TH FLOOR	PW88	2.16	800	200	300	200	No Message
6TH FLOOR	PW88	1.73	800	200	300	200	No Message
5TH FLOOR	PW88	2.07	800	200	300	200	No Message
4TH FLOOR	PW88	2.41	800	200	300	300	No Message
3RD FLOOR	PW88	2.65	800	200	300	300	No Message
2ND FLOOR	PW88	0.55	800	300	300	300	No Message
1ST FLOOR	PW88	0.25	800	300	300	300	No Message
STILT FLOOR	PW88	0.25	800	300	300	300	No Message
TERRACE	PW89	0.76	1200	200			No Message
16TH FLOOR	PW89	0.5	1200	200			No Message
15TH FLOOR	PW89	0.48	1200	200			No Message
14TH FLOOR	PW89	0.51	1200	200			No Message
13TH FLOOR	PW89	0.46	1200	200	200	200	No Message
12TH FLOOR	PW89	0.48	1200	200	200	200	No Message
11TH FLOOR	PW89	0.67	1200	200	200	300	No Message
10TH FLOOR	PW89	0.9	1200	200	300	300	No Message
9TH FLOOR	PW89	1.17	1200	200	300	300	No Message
8TH FLOOR	PW89	1.48	1200	200	300	300	No Message
7TH FLOOR	PW89	1.67	1200	200	300	400	No Message
6TH FLOOR	PW89	1.25	1200	200	300	300	No Message
5TH FLOOR	PW89	1.41	1200	200	400	400	No Message
4TH FLOOR	PW89	1.68	1200	200	400	400	No Message
3RD FLOOR	PW89	1.89	1200	200	400	400	No Message
2ND FLOOR	PW89	0.25	1200	300	300	300	No Message
1ST FLOOR	PW89	0.25	1200	300	300	300	No Message
STILT FLOOR	PW89	0.79	1200	300	450	450	No Message
TERRACE	PW90	0.35	1200	200			No Message
16TH FLOOR	PW90	0.37	1200	200			No Message
15TH FLOOR	PW90	0.44	1200	200			No Message
14TH FLOOR	PW90	0.53	1200	200	200		No Message
13TH FLOOR	PW90	0.5	1200	200	200	200	No Message
12TH FLOOR	PW90	0.53	1200	200	200	200	No Message
11TH FLOOR	PW90	0.79	1200	200	200	200	No Message
10TH FLOOR	PW90	1.06	1200	200	300	200	No Message
9TH FLOOR	PW90	1.32	1200	200	300	300	No Message
8TH FLOOR	PW90	1.73	1200	200	300	300	No Message
7TH FLOOR	PW90	1.91	1200	200	300	300	No Message
6TH FLOOR	PW90	1.56	1200	200	300	300	No Message
5TH FLOOR	PW90	1.81	1200	200	300	300	No Message
4TH FLOOR	PW90	2.16	1200	200	400	300	No Message
3RD FLOOR	PW90	2.29	1200	200	400	300	No Message
2ND FLOOR	PW90	0.4	1200	300	300	300	No Message
1ST FLOOR	PW90	0.25	1200	300	300	300	No Message
STILT FLOOR	PW90	0.25	1200	300	300	300	No Message
TERRACE	PW91	0.6	800	200	200		No Message

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16TH FLOOR	PW91	0.37	800	200	200		No Message
15TH FLOOR	PW91	0.43	800	200	200		No Message
14TH FLOOR	PW91	0.43	800	200	200		No Message
13TH FLOOR	PW91	0.48	800	200	200		No Message
12TH FLOOR	PW91	0.55	800	200	200		No Message
11TH FLOOR	PW91	0.79	800	200	200	200	No Message
10TH FLOOR	PW91	1.03	800	200	200	200	No Message
9TH FLOOR	PW91	1.28	800	200	200	200	No Message
8TH FLOOR	PW91	1.59	800	200	300	200	No Message
7TH FLOOR	PW91	1.85	800	200	300	200	No Message
6TH FLOOR	PW91	1.41	800	200	300	200	No Message
5TH FLOOR	PW91	1.69	800	200	300	200	No Message
4TH FLOOR	PW91	2.02	800	200	300	200	No Message
3RD FLOOR	PW91	2.18	800	200	300	300	No Message
2ND FLOOR	PW91	0.46	800	300	300	300	No Message
1ST FLOOR	PW91	0.25	800	300	300	300	No Message
STILT FLOOR	PW91	0.25	800	300	300	300	No Message
TERRACE	PW92	0.3	1250	200			No Message
16TH FLOOR	PW92	0.25	1250	200			No Message
15TH FLOOR	PW92	0.25	1250	200			No Message
14TH FLOOR	PW92	0.25	1250	200			No Message
13TH FLOOR	PW92	0.25	1250	200		200	No Message
12TH FLOOR	PW92	0.25	1250	200	200	200	No Message
11TH FLOOR	PW92	0.25	1250	200	200	200	No Message
10TH FLOOR	PW92	0.26	1250	200	200	200	No Message
9TH FLOOR	PW92	0.44	1250	200	200	200	No Message
8TH FLOOR	PW92	0.63	1250	200	200	300	No Message
7TH FLOOR	PW92	0.83	1250	200	300	300	No Message
6TH FLOOR	PW92	0.39	1250	200	300	200	No Message
5TH FLOOR	PW92	0.51	1250	200	300	300	No Message
4TH FLOOR	PW92	0.73	1250	200	300	300	No Message
3RD FLOOR	PW92	1.03	1250	200	300	300	No Message
2ND FLOOR	PW92	2.41	1250	200	400	300	No Message
1ST FLOOR	PW92	0.25	1250	300	300	300	No Message
STILT FLOOR	PW92	0.25	1250	300	300	300	No Message
TERRACE	PW93	0.68	1200	200			No Message
16TH FLOOR	PW93	0.5	1200	200			No Message
15TH FLOOR	PW93	0.49	1200	200			No Message
14TH FLOOR	PW93	0.53	1200	200			No Message
13TH FLOOR	PW93	0.47	1200	200	200	200	No Message
12TH FLOOR	PW93	0.5	1200	200	200	200	No Message
11TH FLOOR	PW93	0.54	1200	200	200	200	No Message
10TH FLOOR	PW93	0.64	1200	200	300	300	No Message
9TH FLOOR	PW93	0.88	1200	200	300	300	No Message
8TH FLOOR	PW93	1.2	1200	200	300	300	No Message

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7TH FLOOR	PW93	1.47	1200	200	300	300	No Message
6TH FLOOR	PW93	1.09	1200	200	300	300	No Message
5TH FLOOR	PW93	1.18	1200	200	400	400	No Message
4TH FLOOR	PW93	1.62	1200	200	400	400	No Message
3RD FLOOR	PW93	2.04	1200	200	400	400	No Message
2ND FLOOR	PW93	0.25	1200	300	300	300	No Message
1ST FLOOR	PW93	0.25	1200	300	300	300	No Message
STILT FLOOR	PW93	0.69	1200	300	450	450	No Message
TERRACE	PW94	1.3	1200	200			No Message
16TH FLOOR	PW94	0.95	1200	200			No Message
15TH FLOOR	PW94	0.83	1200	200			No Message
14TH FLOOR	PW94	0.74	1200	200	200	200	No Message
13TH FLOOR	PW94	0.69	1200	200	200	200	No Message
12TH FLOOR	PW94	0.74	1200	200	200	200	No Message
11TH FLOOR	PW94	0.87	1200	200	200	200	No Message
10TH FLOOR	PW94	1.11	1200	200	200	200	No Message
9TH FLOOR	PW94	1.3	1200	200	300	300	No Message
8TH FLOOR	PW94	1.6	1200	200	300	300	No Message
7TH FLOOR	PW94	1.75	1200	200	400	400	No Message
6TH FLOOR	PW94	1.13	1200	200	300	300	No Message
5TH FLOOR	PW94	1.45	1200	200	400	400	No Message
4TH FLOOR	PW94	1.73	1200	200	400	400	No Message
3RD FLOOR	PW94	1.95	1200	200	400	400	No Message
2ND FLOOR	PW94	0.25	1200	300	300	300	No Message
1ST FLOOR	PW94	0.25	1200	300	300	300	No Message
STILT FLOOR	PW94	0.85	1200	300	450	450	No Message
TERRACE	PW96	0.69	1550	200			No Message
16TH FLOOR	PW96	0.3	1550	200			No Message
15TH FLOOR	PW96	0.25	1550	200			No Message
14TH FLOOR	PW96	0.25	1550	200		200	No Message
13TH FLOOR	PW96	0.25	1550	200		200	No Message
12TH FLOOR	PW96	0.25	1550	200	200	300	No Message
11TH FLOOR	PW96	0.25	1550	200	300	300	No Message
10TH FLOOR	PW96	0.28	1550	200	300	300	No Message
9TH FLOOR	PW96	0.58	1550	200	300	400	No Message
8TH FLOOR	PW96	0.89	1550	200	400	400	No Message
7TH FLOOR	PW96	1.23	1550	200	400	500	No Message
6TH FLOOR	PW96	0.57	1550	200	400	400	No Message
5TH FLOOR	PW96	0.84	1550	200	500	500	No Message
4TH FLOOR	PW96	1.33	1550	200	500	500	No Message
3RD FLOOR	PW96	1.85	1550	200	500	600	No Message
2ND FLOOR	PW96	0.25	1550	300	450	450	No Message
1ST FLOOR	PW96	0.25	1550	300	450	450	No Message
STILT FLOOR	PW96	1.14	1550	300	600	600	No Message
TERRACE	PW97	1.6	800	200			No Message

P. PRADEEP M.Tech
DTCP Reg No. CGLRGN/SE/GR-I/2019/0[illegible]
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16TH FLOOR	PW97	1.26	800	200			No Message
15TH FLOOR	PW97	1.22	800	200			No Message
14TH FLOOR	PW97	1.11	800	200		200	No Message
13TH FLOOR	PW97	1.03	800	200	200	200	No Message
12TH FLOOR	PW97	0.95	800	200	200	200	No Message
11TH FLOOR	PW97	1.01	800	200	200	200	No Message
10TH FLOOR	PW97	1.16	800	200	200	200	No Message
9TH FLOOR	PW97	1.29	800	200	200	200	No Message
8TH FLOOR	PW97	1.5	800	200	200	200	No Message
7TH FLOOR	PW97	1.61	800	200	300	300	No Message
6TH FLOOR	PW97	1.01	800	200	300	300	No Message
5TH FLOOR	PW97	1.66	800	200	200	300	No Message
4TH FLOOR	PW97	1.7	800	200	300	300	No Message
3RD FLOOR	PW97	2.84	800	200	300	300	No Message
2ND FLOOR	PW97	0.45	800	300	300	300	No Message
1ST FLOOR	PW97	0.59	800	300	300	300	No Message
STILT FLOOR	PW97	0.74	800	300	300	300	No Message
TERRACE	PW99	0.89	1400	200			No Message
16TH FLOOR	PW99	0.59	1400	200			No Message
15TH FLOOR	PW99	0.5	1400	200			No Message
14TH FLOOR	PW99	0.43	1400	200			No Message
13TH FLOOR	PW99	0.41	1400	200	200	200	No Message
12TH FLOOR	PW99	0.42	1400	200	200	200	No Message
11TH FLOOR	PW99	0.53	1400	200	300	300	No Message
10TH FLOOR	PW99	0.72	1400	200	300	300	No Message
9TH FLOOR	PW99	0.93	1400	200	300	300	No Message
8TH FLOOR	PW99	1.16	1400	200	400	400	No Message
7TH FLOOR	PW99	1.37	1400	200	400	400	No Message
6TH FLOOR	PW99	0.84	1400	200	400	400	No Message
5TH FLOOR	PW99	0.98	1400	200	500	500	No Message
4TH FLOOR	PW99	1.19	1400	200	400	400	No Message
3RD FLOOR	PW99	1.78	1400	200	500	400	No Message
2ND FLOOR	PW99	2.89	1700	200	500	500	No Message
1ST FLOOR	PW99	0.25	1700	300	450	450	No Message
STILT FLOOR	PW99	0.86	1700	300	600	600	No Message
TERRACE	PW100	0.36	1600	200			No Message
16TH FLOOR	PW100	0.41	1600	200			No Message
15TH FLOOR	PW100	0.47	1600	200			No Message
14TH FLOOR	PW100	0.51	1600	200		200	No Message
13TH FLOOR	PW100	0.55	1600	200		200	No Message
12TH FLOOR	PW100	0.68	1600	200	200	300	No Message
11TH FLOOR	PW100	1.06	1600	200		300	No Message
10TH FLOOR	PW100	1.24	1600	200	300	300	No Message
9TH FLOOR	PW100	1.57	1600	200	300	400	No Message
8TH FLOOR	PW100	1.84	1600	200	300	400	No Message

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7TH FLOOR	PW100	2.23	1600	200	400	400	No Message
6TH FLOOR	PW100	1.64	1600	200	300	400	No Message
5TH FLOOR	PW100	2.19	1600	200	400	400	No Message
4TH FLOOR	PW100	2.54	1600	200	400	500	No Message
3RD FLOOR	PW100	3.13	1600	200	500	400	No Message
2ND FLOOR	PW100	3.14	2000	200	600	500	No Message
1ST FLOOR	PW100	0.25	2000	300	450	450	No Message
STILT FLOOR	PW100	0.37	2000	300	450	450	No Message
TERRACE	PW101	0.69	1600	200			No Message
16TH FLOOR	PW101	0.32	1600	200			No Message
15TH FLOOR	PW101	0.32	1600	200			No Message
14TH FLOOR	PW101	0.25	1600	200	200	200	No Message
13TH FLOOR	PW101	0.25	1600	200	200	200	No Message
12TH FLOOR	PW101	0.25	1600	200	300	300	No Message
11TH FLOOR	PW101	0.39	1600	200	300	300	No Message
10TH FLOOR	PW101	0.54	1600	200	300	300	No Message
9TH FLOOR	PW101	0.76	1600	200	400	400	No Message
8TH FLOOR	PW101	0.87	1600	200	400	400	No Message
7TH FLOOR	PW101	1.16	1600	200	400	400	No Message
6TH FLOOR	PW101	0.62	1600	200	400	400	No Message
5TH FLOOR	PW101	0.75	1600	200	500	500	No Message
4TH FLOOR	PW101	1.08	1600	200	400	400	No Message
3RD FLOOR	PW101	1.47	1600	200	500	500	No Message
2ND FLOOR	PW101	3.31	1600	200	500	500	No Message
1ST FLOOR	PW101	0.25	1600	300	450	450	No Message
STILT FLOOR	PW101	0.8	1600	300	600	600	No Message
TERRACE	PW102	0.85	1600	200			No Message
16TH FLOOR	PW102	0.53	1600	200			No Message
15TH FLOOR	PW102	0.46	1600	200			No Message
14TH FLOOR	PW102	0.39	1600	200		200	No Message
13TH FLOOR	PW102	0.36	1600	200	200	200	No Message
12TH FLOOR	PW102	0.32	1600	200	300	300	No Message
11TH FLOOR	PW102	0.39	1600	200	300	300	No Message
10TH FLOOR	PW102	0.51	1600	200	300	300	No Message
9TH FLOOR	PW102	0.69	1600	200	300	400	No Message
8TH FLOOR	PW102	0.88	1600	200	400	400	No Message
7TH FLOOR	PW102	1.03	1600	200	400	400	No Message
6TH FLOOR	PW102	0.48	1600	200	400	400	No Message
5TH FLOOR	PW102	0.6	1600	200	400	400	No Message
4TH FLOOR	PW102	0.83	1600	200	500	500	No Message
3RD FLOOR	PW102	1.17	1600	200	500	500	No Message
2ND FLOOR	PW102	3.18	1600	200	500	500	No Message
1ST FLOOR	PW102	0.25	1600	300	450	450	No Message
STILT FLOOR	PW102	0.89	1600	300	600	600	No Message
TERRACE	PW103	0.25	3600	200			No Message

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16TH FLOOR	PW103	0.25	3600	200			No Message
15TH FLOOR	PW103	0.25	3600	200			No Message
14TH FLOOR	PW103	0.26	3600	200			No Message
13TH FLOOR	PW103	0.28	3600	200	400	400	No Message
12TH FLOOR	PW103	0.31	3600	200	400	400	No Message
11TH FLOOR	PW103	0.32	3600	200	500	500	No Message
10TH FLOOR	PW103	0.33	3600	200	500	500	No Message
9TH FLOOR	PW103	0.34	3600	200	500	600	No Message
8TH FLOOR	PW103	0.42	3600	200	600	600	No Message
7TH FLOOR	PW103	0.5	3600	200	600	700	No Message
6TH FLOOR	PW103	0.27	3600	200	600	600	No Message
5TH FLOOR	PW103	0.25	3600	200	600	700	No Message
4TH FLOOR	PW103	0.33	3600	200	700	700	No Message
3RD FLOOR	PW103	0.47	3600	200	800	700	No Message
2ND FLOOR	PW103	2.3	3600	200	800	800	No Message
1ST FLOOR	PW103	2.3	3600	200	900	900	No Message
STILT FLOOR	PW103	2.9	3600	200	1000	1000	No Message
TERRACE	PW105	0.3	2900	200			No Message
16TH FLOOR	PW105	0.25	2900	200			No Message
15TH FLOOR	PW105	0.29	2900	200			No Message
14TH FLOOR	PW105	0.34	2900	200			No Message
13TH FLOOR	PW105	0.38	2900	200			No Message
12TH FLOOR	PW105	0.4	2900	200	300	300	No Message
11TH FLOOR	PW105	0.42	2900	200	400	400	No Message
10TH FLOOR	PW105	0.44	2900	200	400	400	No Message
9TH FLOOR	PW105	0.45	2900	200	400	400	No Message
8TH FLOOR	PW105	0.51	2900	200	500	500	No Message
7TH FLOOR	PW105	0.64	2900	200	500	500	No Message
6TH FLOOR	PW105	0.46	2900	200	500	500	No Message
5TH FLOOR	PW105	0.45	2900	200	500	500	No Message
4TH FLOOR	PW105	0.51	2900	200	500	500	No Message
3RD FLOOR	PW105	0.72	2900	200	600	600	No Message
2ND FLOOR	PW105	1.71	2900	200	600	600	No Message
1ST FLOOR	PW105	1.45	2900	200	700	700	No Message
STILT FLOOR	PW105	2.14	2900	200	800	800	No Message
TERRACE	PW106	0.45	1200	200			No Message
16TH FLOOR	PW106	0.25	1200	200			No Message
15TH FLOOR	PW106	0.25	1200	200			No Message
14TH FLOOR	PW106	0.25	1200	200	200		No Message
13TH FLOOR	PW106	0.25	1200	200	200		No Message
12TH FLOOR	PW106	0.25	1200	200	200		No Message
11TH FLOOR	PW106	0.25	1200	200	200	200	No Message
10TH FLOOR	PW106	0.25	1200	200	200	200	No Message
9TH FLOOR	PW106	0.25	1200	200	200	200	No Message
8TH FLOOR	PW106	0.33	1200	200	300	200	No Message

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7TH FLOOR	PW106	0.48	1200	200	300	300	No Message
6TH FLOOR	PW106	0.38	1200	200	300	200	No Message
5TH FLOOR	PW106	0.41	1200	200	300	200	No Message
4TH FLOOR	PW106	0.51	1200	200	300	200	No Message
3RD FLOOR	PW106	0.93	1200	200	300	300	No Message
2ND FLOOR	PW106	2.91	1200	200	400	300	No Message
1ST FLOOR	PW106	0.25	1200	300	300	300	No Message
STILT FLOOR	PW106	0.5	1200	300	300	300	No Message
TERRACE	PW107	0.97	1400	200			No Message
16TH FLOOR	PW107	0.64	1400	200			No Message
15TH FLOOR	PW107	0.52	1400	200			No Message
14TH FLOOR	PW107	0.44	1400	200		200	No Message
13TH FLOOR	PW107	0.39	1400	200	200	200	No Message
12TH FLOOR	PW107	0.36	1400	200	200	200	No Message
11TH FLOOR	PW107	0.41	1400	200	200	300	No Message
10TH FLOOR	PW107	0.52	1400	200	300	300	No Message
9TH FLOOR	PW107	0.69	1400	200	300	300	No Message
8TH FLOOR	PW107	0.86	1400	200	300	300	No Message
7TH FLOOR	PW107	1	1400	200	400	400	No Message
6TH FLOOR	PW107	0.44	1400	200	300	300	No Message
5TH FLOOR	PW107	0.64	1400	200	400	400	No Message
4TH FLOOR	PW107	0.85	1400	200	400	400	No Message
3RD FLOOR	PW107	1.21	1400	200	400	400	No Message
2ND FLOOR	PW107	3.08	1400	200	500	500	No Message
1ST FLOOR	PW107	0.25	1400	300	300	300	No Message
STILT FLOOR	PW107	0.65	1400	300	450	450	No Message
TERRACE	PW108	0.72	1500	200			No Message
16TH FLOOR	PW108	0.51	1500	200			No Message
15TH FLOOR	PW108	0.51	1500	200			No Message
14TH FLOOR	PW108	0.5	1500	200			No Message
13TH FLOOR	PW108	0.52	1500	200	200	200	No Message
12TH FLOOR	PW108	0.62	1500	200	200	200	No Message
11TH FLOOR	PW108	0.74	1500	200	200	200	No Message
10TH FLOOR	PW108	0.82	1500	200	300	300	No Message
9TH FLOOR	PW108	0.93	1500	200	300	300	No Message
8TH FLOOR	PW108	1.06	1500	200	300	300	No Message
7TH FLOOR	PW108	1.15	1500	200	300	300	No Message
6TH FLOOR	PW108	1.24	1500	200	300	300	No Message
5TH FLOOR	PW108	1.28	1500	200	300	300	No Message
4TH FLOOR	PW108	1.25	1500	200	400	400	No Message
3RD FLOOR	PW108	1.62	1500	200	400	400	No Message
2ND FLOOR	PW108	2.89	1500	200	400	400	No Message
1ST FLOOR	PW108	0.37	1500	300	300	300	No Message
STILT FLOOR	PW108	0.81	1500	300	450	450	No Message
TERRACE	PW109	0.46	1300	200			No Message

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16TH FLOOR	PW109	0.25	1300	200			No Message
15TH FLOOR	PW109	0.25	1300	200			No Message
14TH FLOOR	PW109	0.25	1300	200			No Message
13TH FLOOR	PW109	0.25	1300	200		200	No Message
12TH FLOOR	PW109	0.25	1300	200	200	200	No Message
11TH FLOOR	PW109	0.25	1300	200	200	200	No Message
10TH FLOOR	PW109	0.25	1300	200	200	200	No Message
9TH FLOOR	PW109	0.25	1300	200	200	300	No Message
8TH FLOOR	PW109	0.25	1300	200	200	300	No Message
7TH FLOOR	PW109	0.4	1300	200	300	300	No Message
6TH FLOOR	PW109	0.25	1300	200	300	300	No Message
5TH FLOOR	PW109	0.25	1300	200	300	300	No Message
4TH FLOOR	PW109	0.44	1300	200	300	300	No Message
3RD FLOOR	PW109	0.71	1300	200	400	400	No Message
2ND FLOOR	PW109	2.64	1300	200	400	400	No Message
1ST FLOOR	PW109	1.89	1300	200	400	400	No Message
STILT FLOOR	PW109	2.38	1300	200	500	500	No Message
TERRACE	PW110	1.16	950	200			No Message
16TH FLOOR	PW110	0.93	950	200			No Message
15TH FLOOR	PW110	0.91	950	200			No Message
14TH FLOOR	PW110	0.84	950	200			No Message
13TH FLOOR	PW110	0.78	950	200	200	200	No Message
12TH FLOOR	PW110	0.7	950	200	200	200	No Message
11TH FLOOR	PW110	0.66	950	200	200	200	No Message
10TH FLOOR	PW110	0.8	950	200	200	200	No Message
9TH FLOOR	PW110	1.04	950	200	200	200	No Message
8TH FLOOR	PW110	1.16	950	200	200	200	No Message
7TH FLOOR	PW110	1.37	950	200	200	200	No Message
6TH FLOOR	PW110	0.79	950	200	200	200	No Message
5TH FLOOR	PW110	1.08	950	200	200	200	No Message
4TH FLOOR	PW110	0.92	950	200	300	200	No Message
3RD FLOOR	PW110	2.06	950	200	200	300	No Message
2ND FLOOR	PW110	2.63	1200	200	300	400	No Message
1ST FLOOR	PW110	1.64	1200	300	300	300	No Message
STILT FLOOR	PW110	2.24	1200	300	300	300	No Message
TERRACE	PW114	0.25	3400	200			No Message
16TH FLOOR	PW114	0.25	3400	200			No Message
15TH FLOOR	PW114	0.25	3400	200			No Message
14TH FLOOR	PW114	0.25	3400	200			No Message
13TH FLOOR	PW114	0.25	3400	200	300	300	No Message
12TH FLOOR	PW114	0.25	3400	200	400	400	No Message
11TH FLOOR	PW114	0.25	3400	200			No Message
10TH FLOOR	PW114	0.25	3400	200	500	500	No Message
9TH FLOOR	PW114	0.25	3400	200	500	500	No Message
8TH FLOOR	PW114	0.26	3400	200	500	600	No Message

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7TH FLOOR	PW114	0.3	3400	200	600	600	No Message
6TH FLOOR	PW114	0.33	3400	200	500	600	No Message
5TH FLOOR	PW114	0.37	3400	200	600	600	No Message
4TH FLOOR	PW114	0.41	3400	200	600	700	No Message
3RD FLOOR	PW114	0.41	3400	200	700	700	No Message
2ND FLOOR	PW114	2.35	3400	200	800	700	No Message
1ST FLOOR	PW114	2.18	3400	200	900	800	No Message
STILT FLOOR	PW114	2.68	3400	200	1000	900	No Message
TERRACE	PW115	0.25	3800	200			No Message
16TH FLOOR	PW115	0.25	3800	200			No Message
15TH FLOOR	PW115	0.25	3800	200			No Message
14TH FLOOR	PW115	0.25	3800	200			No Message
13TH FLOOR	PW115	0.25	3800	200	400	400	No Message
12TH FLOOR	PW115	0.25	3800	200	400	400	No Message
11TH FLOOR	PW115	0.25	3800	200	500	500	No Message
10TH FLOOR	PW115	0.25	3800	200	500	500	No Message
9TH FLOOR	PW115	0.25	3800	200	500	500	No Message
8TH FLOOR	PW115	0.25	3800	200	600	600	No Message
7TH FLOOR	PW115	0.28	3800	200	600	600	No Message
6TH FLOOR	PW115	0.34	3800	200	600	600	No Message
5TH FLOOR	PW115	0.4	3800	200	600	700	No Message
4TH FLOOR	PW115	0.45	3800	200	700	700	No Message
3RD FLOOR	PW115	0.48	3800	200	700	700	No Message
2ND FLOOR	PW115	1.95	3800	200	800	700	No Message
1ST FLOOR	PW115	1.85	3800	200	900	800	No Message
STILT FLOOR	PW115	2.43	3800	200	1000	1000	No Message
TERRACE	PW116	0.58	1000	200			No Message
16TH FLOOR	PW116	0.44	1000	200			No Message
15TH FLOOR	PW116	0.39	1000	200			No Message
14TH FLOOR	PW116	0.34	1000	200			No Message
13TH FLOOR	PW116	0.3	1000	200			No Message
12TH FLOOR	PW116	0.27	1000	200	200		No Message
11TH FLOOR	PW116	0.25	1000	200	200	200	No Message
10TH FLOOR	PW116	0.25	1000	200	200	200	No Message
9TH FLOOR	PW116	0.25	1000	200	200	200	No Message
8TH FLOOR	PW116	0.4	1000	200	200	200	No Message
7TH FLOOR	PW116	0.55	1000	200	200	200	No Message
6TH FLOOR	PW116	0.3	1000	200	200	200	No Message
5TH FLOOR	PW116	0.43	1000	200	200	200	No Message
4TH FLOOR	PW116	0.67	1000	200	200	200	No Message
3RD FLOOR	PW116	1.13	1000	200	200	200	No Message
2ND FLOOR	PW116	2.2	1000	200	200	300	No Message
1ST FLOOR	PW116	0.25	1000	300	300	300	No Message
STILT FLOOR	PW116	0.35	1000	300	300	300	No Message
TERRACE	PW117	0.82	1550	200			No Message

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DTCP Reg No. CGI.RGN/SE/GR-I/2019/05/007
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16TH FLOOR	PW117	0.7	1550	200			No Message
15TH FLOOR	PW117	0.67	1550	200			No Message
14TH FLOOR	PW117	0.59	1550	200			No Message
13TH FLOOR	PW117	0.52	1550	200	200		No Message
12TH FLOOR	PW117	0.48	1550	200	200		No Message
11TH FLOOR	PW117	0.46	1550	200	300	200	No Message
10TH FLOOR	PW117	0.49	1550	200	300	200	No Message
9TH FLOOR	PW117	0.7	1550	200	300	300	No Message
8TH FLOOR	PW117	0.91	1550	200	300	300	No Message
7TH FLOOR	PW117	1.13	1550	200	300	300	No Message
6TH FLOOR	PW117	0.81	1550	200	300	300	No Message
5TH FLOOR	PW117	1.02	1550	200	400	300	No Message
4TH FLOOR	PW117	1.26	1550	200	400	300	No Message
3RD FLOOR	PW117	1.64	1550	200	400	400	No Message
2ND FLOOR	PW117	2.66	1550	200	400	400	No Message
1ST FLOOR	PW117	0.25	1550	300	300	300	No Message
STILT FLOOR	PW117	0.28	1550	300	450	450	No Message
TERRACE	PW118	0.5	1250	200			No Message
16TH FLOOR	PW118	0.34	1250	200			No Message
15TH FLOOR	PW118	0.27	1250	200			No Message
14TH FLOOR	PW118	0.25	1250	200			No Message
13TH FLOOR	PW118	0.25	1250	200	200	200	No Message
12TH FLOOR	PW118	0.35	1250	200	200	200	No Message
11TH FLOOR	PW118	0.62	1250	200	200	200	No Message
10TH FLOOR	PW118	0.95	1250	200	300	300	No Message
9TH FLOOR	PW118	1.32	1250	200	300	300	No Message
8TH FLOOR	PW118	1.74	1250	200	300	300	No Message
7TH FLOOR	PW118	2.12	1250	200	400	300	No Message
6TH FLOOR	PW118	1.73	1250	200	300	300	No Message
5TH FLOOR	PW118	2.28	1250	200	400		No Message
4TH FLOOR	PW118	2.68	1250	200		500	No Message
3RD FLOOR	PW118	1.4	1750	200	400	500	No Message
2ND FLOOR	PW118	3.12	1750	200	500	500	No Message
1ST FLOOR	PW118	0.25	1750	300	450	450	No Message
STILT FLOOR	PW118	0.26	1750	300	450	450	No Message
TERRACE	PW119	0.25	1600	200			No Message
16TH FLOOR	PW119	0.25	1600	200			No Message
15TH FLOOR	PW119	0.25	1600	200			No Message
14TH FLOOR	PW119	0.25	1600	200	200		No Message
13TH FLOOR	PW119	0.25	1600	200	200	200	No Message
12TH FLOOR	PW119	0.25	1600	200	300	200	No Message
11TH FLOOR	PW119	0.33	1600	200	300	300	No Message
10TH FLOOR	PW119	0.52	1600	200	300	300	No Message
9TH FLOOR	PW119	0.76	1600	200	400	300	No Message
8TH FLOOR	PW119	1.03	1600	200	400	300	No Message

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7TH FLOOR	PW119	1.28	1600	200	400	400	No Message
6TH FLOOR	PW119	0.82	1600	200	400	400	No Message
5TH FLOOR	PW119	1.07	1600	200	400	400	No Message
4TH FLOOR	PW119	1.35	1600	200	500	400	No Message
3RD FLOOR	PW119	1.71	1600	200	400	500	No Message
2ND FLOOR	PW119	3.3	1900	200	500	600	No Message
1ST FLOOR	PW119	0.26	1900	300	450	450	No Message
STILT FLOOR	PW119	0.79	1900	300	450	450	No Message
TERRACE	PW120	0.25	1200	200			No Message
16TH FLOOR	PW120	0.25	1200	200			No Message
15TH FLOOR	PW120	0.25	1200	200			No Message
14TH FLOOR	PW120	0.25	1200	200	200		No Message
13TH FLOOR	PW120	0.25	1200	200	200		No Message
12TH FLOOR	PW120	0.25	1200	200	200		No Message
11TH FLOOR	PW120	0.25	1200	200	200		No Message
10TH FLOOR	PW120	0.25	1200	200	200		No Message
9TH FLOOR	PW120	0.4	1200	200	300	200	No Message
8TH FLOOR	PW120	0.61	1200	200	300	200	No Message
7TH FLOOR	PW120	0.82	1200	200	300	300	No Message
6TH FLOOR	PW120	0.36	1200	200	300	200	No Message
5TH FLOOR	PW120	0.55	1200	200	300	300	No Message
4TH FLOOR	PW120	0.79	1200	200	300	300	No Message
3RD FLOOR	PW120	1.17	1200	200	300	300	No Message
2ND FLOOR	PW120	2.7	1200	200	300	300	No Message
1ST FLOOR	PW120	2.02	1200	200	400	300	No Message
STILT FLOOR	PW120	1.76	1200	200	400	400	No Message
TERRACE	PW121	0.51	1000	200			No Message
16TH FLOOR	PW121	0.31	1000	200			No Message
15TH FLOOR	PW121	0.28	1000	200			No Message
14TH FLOOR	PW121	0.27	1000	200			No Message
13TH FLOOR	PW121	0.25	1000	200	200		No Message
12TH FLOOR	PW121	0.25	1000	200	200		No Message
11TH FLOOR	PW121	0.25	1000	200	200		No Message
10TH FLOOR	PW121	0.25	1000	200	200		No Message
9TH FLOOR	PW121	0.4	1000	200	200		No Message
8TH FLOOR	PW121	0.6	1000	200	200		No Message
7TH FLOOR	PW121	0.79	1000	200	200	200	No Message
6TH FLOOR	PW121	0.41	1000	200	200	200	No Message
5TH FLOOR	PW121	0.64	1000	200	200		No Message
4TH FLOOR	PW121	0.94	1000	200	300	200	No Message
3RD FLOOR	PW121	1.39	1000	200	300	200	No Message
2ND FLOOR	PW121	2.86	1000	200	300	200	No Message
1ST FLOOR	PW121	0.25	1000	300	300	300	No Message
STILT FLOOR	PW121	0.25	1000	300	300	300	No Message
TERRACE	PW122	0.67	1550	200			No Message

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16TH FLOOR	PW122	0.5	1550	200			No Message
15TH FLOOR	PW122	0.47	1550	200			No Message
14TH FLOOR	PW122	0.43	1550	200			No Message
13TH FLOOR	PW122	0.4	1550	200	200		No Message
12TH FLOOR	PW122	0.37	1550	200	200		No Message
11TH FLOOR	PW122	0.36	1550	200	300	200	No Message
10TH FLOOR	PW122	0.52	1550	200	300	300	No Message
9TH FLOOR	PW122	0.75	1550	200	300	300	No Message
8TH FLOOR	PW122	0.98	1550	200	300	300	No Message
7TH FLOOR	PW122	1.21	1550	200	400	300	No Message
6TH FLOOR	PW122	0.86	1550	200	300	300	No Message
5TH FLOOR	PW122	1.08	1550	200	400	300	No Message
4TH FLOOR	PW122	1.31	1550	200	400	400	No Message
3RD FLOOR	PW122	1.7	1550	200	400	400	No Message
2ND FLOOR	PW122	2.82	1550	200	500	400	No Message
1ST FLOOR	PW122	0.25	1550	300	300	300	No Message
STILT FLOOR	PW122	0.25	1550	300	450	450	No Message
TERRACE	PW123	0.39	1250	200			No Message
16TH FLOOR	PW123	0.25	1250	200			No Message
15TH FLOOR	PW123	0.25	1250	200			No Message
14TH FLOOR	PW123	0.25	1250	200			No Message
13TH FLOOR	PW123	0.25	1250	200	200	200	No Message
12TH FLOOR	PW123	0.28	1250	200	200	200	No Message
11TH FLOOR	PW123	0.62	1250	200	200	200	No Message
10TH FLOOR	PW123	0.85	1250	200	300	300	No Message
9TH FLOOR	PW123	1.23	1250	200	300	300	No Message
8TH FLOOR	PW123	1.63	1250	200	300	300	No Message
7TH FLOOR	PW123	1.99	1250	200	300	300	No Message
6TH FLOOR	PW123	1.61	1250	200	400	300	No Message
5TH FLOOR	PW123	1.98	1250	200	400	400	No Message
4TH FLOOR	PW123	2.43	1250	200	500	300	No Message
3RD FLOOR	PW123	2.95	1250	200		500	No Message
2ND FLOOR	PW123	3.11	1650	200	400	300	No Message
1ST FLOOR	PW123	0.25	1650	300	450	300	No Message
STILT FLOOR	PW123	0.25	1650	300	450	450	No Message
TERRACE	PW124	0.93	1200	200			No Message
16TH FLOOR	PW124	0.7	1200	200			No Message
15TH FLOOR	PW124	0.65	1200	200			No Message
14TH FLOOR	PW124	0.53	1200	200			No Message
13TH FLOOR	PW124	0.48	1200	200	200	200	No Message
12TH FLOOR	PW124	0.4	1200	200	200	200	No Message
11TH FLOOR	PW124	0.41	1200	200	200	200	No Message
10TH FLOOR	PW124	0.39	1200	200	200	200	No Message
9TH FLOOR	PW124	0.46	1200	200	300	300	No Message
8TH FLOOR	PW124	0.7	1200	200	300	300	No Message

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7TH FLOOR	PW124	1.12	1200	200	300	300	No Message
6TH FLOOR	PW124	0.84	1200	200	300	300	No Message
5TH FLOOR	PW124	0.85	1200	200	300	300	No Message
4TH FLOOR	PW124	2.13	1200	200	400	300	No Message
3RD FLOOR	PW124	1.54	1200	200	300	400	No Message
2ND FLOOR	PW124	2.69	2000	200	400	500	No Message
1ST FLOOR	PW124	1.21	2000	300	450	450	No Message
STILT FLOOR	PW124	1.62	2000	300	450	450	No Message
TERRACE	PW125	0.51	1000	200			No Message
16TH FLOOR	PW125	0.39	1000	200			No Message
15TH FLOOR	PW125	0.32	1000	200			No Message
14TH FLOOR	PW125	0.25	1000	200			No Message
13TH FLOOR	PW125	0.25	1000	200	200		No Message
12TH FLOOR	PW125	0.25	1000	200	200		No Message
11TH FLOOR	PW125	0.25	1000	200	200		No Message
10TH FLOOR	PW125	0.25	1000	200	200	200	No Message
9TH FLOOR	PW125	0.26	1000	200	200	200	No Message
8TH FLOOR	PW125	0.45	1000	200	200	200	No Message
7TH FLOOR	PW125	0.67	1000	200	200	200	No Message
6TH FLOOR	PW125	0.31	1000	200	200	200	No Message
5TH FLOOR	PW125	0.52	1000	200	200	200	No Message
4TH FLOOR	PW125	0.82	1000	200	300	200	No Message
3RD FLOOR	PW125	1.25	1000	200	300	200	No Message
2ND FLOOR	PW125	2.64	1000	200	300	300	No Message
1ST FLOOR	PW125	0.25	1000	300	300	300	No Message
STILT FLOOR	PW125	0.25	1000	300	300	300	No Message
TERRACE	PW126	0.79	1550	200			No Message
16TH FLOOR	PW126	0.63	1550	200			No Message
15TH FLOOR	PW126	0.59	1550	200			No Message
14TH FLOOR	PW126	0.5	1550	200			No Message
13TH FLOOR	PW126	0.46	1550	200	200		No Message
12TH FLOOR	PW126	0.43	1550	200	200		No Message
11TH FLOOR	PW126	0.4	1550	200	300	200	No Message
10TH FLOOR	PW126	0.51	1550	200	300	300	No Message
9TH FLOOR	PW126	0.73	1550	200	300	300	No Message
8TH FLOOR	PW126	0.95	1550	200	300	300	No Message
7TH FLOOR	PW126	1.18	1550	200	400	300	No Message
6TH FLOOR	PW126	0.83	1550	200	300	300	No Message
5TH FLOOR	PW126	1.03	1550	200	400	300	No Message
4TH FLOOR	PW126	1.25	1550	200	400	300	No Message
3RD FLOOR	PW126	1.64	1550	200	400	400	No Message
2ND FLOOR	PW126	2.74	1550	200	500	400	No Message
1ST FLOOR	PW126	0.25	1550	300	450	300	No Message
STILT FLOOR	PW126	0.25	1550	300	450	450	No Message
TERRACE	PW127	0.51	1250	200			No Message

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16TH FLOOR	PW127	0.32	1250	200			No Message
15TH FLOOR	PW127	0.25	1250	200			No Message
14TH FLOOR	PW127	0.25	1250	200			No Message
13TH FLOOR	PW127	0.25	1250	200	200	200	No Message
12TH FLOOR	PW127	0.38	1250	200	200	200	No Message
11TH FLOOR	PW127	0.68	1250	200	200	200	No Message
10TH FLOOR	PW127	1.05	1250	200	300	300	No Message
9TH FLOOR	PW127	1.45	1250	200	300	300	No Message
8TH FLOOR	PW127	1.86	1250	200	300	300	No Message
7TH FLOOR	PW127	2.29	1250	200	400	400	No Message
6TH FLOOR	PW127	1.9	1250	200	400	400	No Message
5TH FLOOR	PW127	2.45	1250	200	500		No Message
4TH FLOOR	PW127	3.13	1250	200		500	No Message
3RD FLOOR	PW127	1.35	1850	200	400	500	No Message
2ND FLOOR	PW127	3.26	1850	200	600	500	No Message
1ST FLOOR	PW127	0.25	1850	300	450	450	No Message
STILT FLOOR	PW127	0.25	1850	300	450	450	No Message
TERRACE	PW128	0.25	1200	200			No Message
16TH FLOOR	PW128	0.25	1200	200			No Message
15TH FLOOR	PW128	0.25	1200	200			No Message
14TH FLOOR	PW128	0.25	1200	200			No Message
13TH FLOOR	PW128	0.25	1200	200			No Message
12TH FLOOR	PW128	0.25	1200	200	200		No Message
11TH FLOOR	PW128	0.25	1200	200			No Message
10TH FLOOR	PW128	0.29	1200	200	200		No Message
9TH FLOOR	PW128	0.33	1200	200	200		No Message
8TH FLOOR	PW128	0.37	1200	200	200	200	No Message
7TH FLOOR	PW128	0.48	1200	200	300	200	No Message
6TH FLOOR	PW128	0.43	1200	200	200	200	No Message
5TH FLOOR	PW128	0.43	1200	200	300	200	No Message
4TH FLOOR	PW128	0.49	1200	200	200	300	No Message
3RD FLOOR	PW128	0.8	1200	200	300	300	No Message
2ND FLOOR	PW128	2.28	1200	200	300	200	No Message
1ST FLOOR	PW128	1.55	1200	200	300	300	No Message
STILT FLOOR	PW128	1.79	1200	200	400	300	No Message
TERRACE	PW98	1.26	800	200			No Message
16TH FLOOR	PW98	1.08	800	200			No Message
15TH FLOOR	PW98	1.05	800	200			No Message
14TH FLOOR	PW98	0.95	800	200	200		No Message
13TH FLOOR	PW98	0.86	800	200	200	200	No Message
12TH FLOOR	PW98	0.79	800	200	200	200	No Message
11TH FLOOR	PW98	0.76	800	200	200	200	No Message
10TH FLOOR	PW98	0.79	800	200	200	200	No Message
9TH FLOOR	PW98	0.92	800	200	200	200	No Message
8TH FLOOR	PW98	0.98	800	200	200	200	No Message

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7TH FLOOR	PW98	1.12	800	200	200	200	No Message
6TH FLOOR	PW98	0.68	800	200	200	200	No Message
5TH FLOOR	PW98	1.08	800	200	200	200	No Message
4TH FLOOR	PW98	1.13	800	200	200	200	No Message
3RD FLOOR	PW98	1.79	800	200	300	200	No Message
2ND FLOOR	PW98	3.05	1400	200	400	400	No Message
1ST FLOOR	PW98	1.56	1400	300	300	300	No Message
STILT FLOOR	PW98	2.09	1400	300	450	300	No Message

Designage Consultants Pvt. Ltd.

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26 COLUMN DESIGN:

TABLE: Concrete Column PMM Envelope - IS 456-2000			
Story	Etabs Label	Section	PMM Ratio or Rebar %
TERRACE	C1	C600X400M30	0.8 %
16TH FLOOR	C1	C600X400M30	0.8 %
15TH FLOOR	C1	C600X400M30	0.8 %
14TH FLOOR	C1	C600X400M30	0.8 %
13TH FLOOR	C1	C600X400M30	0.8 %
12TH FLOOR	C1	C600X400M30	0.8 %
11TH FLOOR	C1	C600X400M30	0.8 %
10TH FLOOR	C1	C600X400M30	0.8 %
9TH FLOOR	C1	C600X400M30	0.8 %
8TH FLOOR	C1	C600X400M30	0.8 %
7TH FLOOR	C1	C600X400M30	0.8 %
6TH FLOOR	C1	C600X400M40	0.8 %
5TH FLOOR	C1	C600X400M40	0.8 %
4TH FLOOR	C1	C600X400M40	0.8 %
3RD FLOOR	C1	C600X400M40	0.8 %
2ND FLOOR	C1	C600X400M40	0.8 %
1ST FLOOR	C1	C600X400M40	0.8 %
STILT FLOOR	C1	C600X400M40	0.8 %
2ND FLOOR	C10	C750X750M40	1.59 %
1ST FLOOR	C10	C750X750M40	0.8 %
STILT FLOOR	C10	C750X750M40	0.8 %
1ST FLOOR	C11	C600M40	0.8 %
STILT FLOOR	C11	C600M40	0.8 %
2ND FLOOR	C12	C600X600M40	0.8 %
1ST FLOOR	C12	C600X600M40	0.8 %
STILT FLOOR	C12	C600X600M40	0.8 %
2ND FLOOR	C13	C600X600M40	0.8 %
1ST FLOOR	C13	C600X600M40	0.8 %
STILT FLOOR	C13	C600X600M40	0.8 %
TERRACE	C2	C600X400M30	0.8 %
16TH FLOOR	C2	C600X400M30	0.8 %
15TH FLOOR	C2	C600X400M30	0.8 %
14TH FLOOR	C2	C600X400M30	0.8 %
13TH FLOOR	C2	C600X400M30	0.8 %
12TH FLOOR	C2	C600X400M30	0.8 %
11TH FLOOR	C2	C600X400M30	0.8 %
10TH FLOOR	C2	C600X400M30	0.8 %
9TH FLOOR	C2	C600X400M30	0.8 %
8TH FLOOR	C2	C600X400M30	0.8 %
7TH FLOOR	C2	C600X400M30	0.8 %

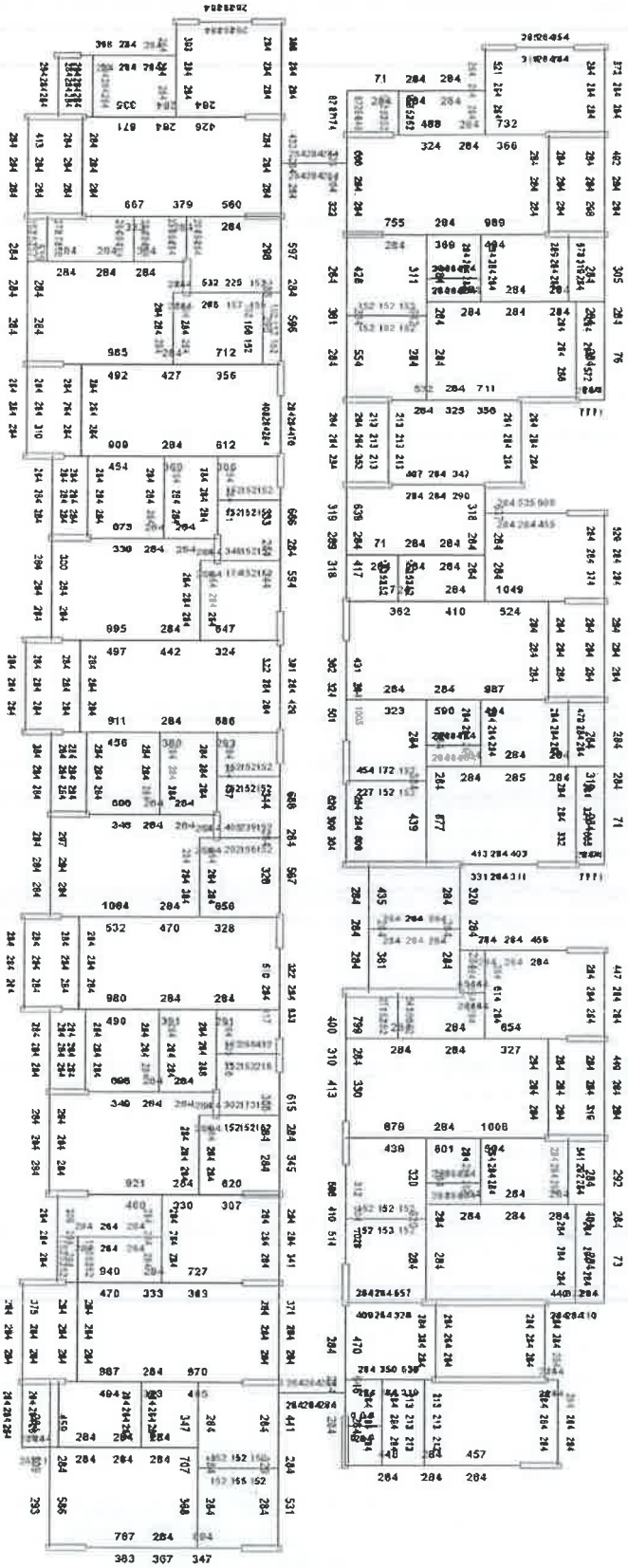
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6TH FLOOR	C2	C600X400M40	0.8 %
5TH FLOOR	C2	C600X400M40	0.8 %
4TH FLOOR	C2	C600X400M40	0.8 %
3RD FLOOR	C2	C600X400M40	0.8 %
2ND FLOOR	C2	C600X400M40	0.8 %
1ST FLOOR	C2	C600X400M40	0.8 %
STILT FLOOR	C2	C600X400M40	0.8 %
TERRACE	C3	C600X400M30	0.8 %
16TH FLOOR	C3	C600X400M30	0.8 %
15TH FLOOR	C3	C600X400M30	0.8 %
14TH FLOOR	C3	C600X400M30	0.8 %
13TH FLOOR	C3	C600X400M30	0.8 %
12TH FLOOR	C3	C600X400M30	0.8 %
11TH FLOOR	C3	C600X400M30	0.8 %
10TH FLOOR	C3	C600X400M30	0.8 %
9TH FLOOR	C3	C600X400M30	0.8 %
8TH FLOOR	C3	C600X400M30	0.8 %
7TH FLOOR	C3	C600X400M30	0.8 %
6TH FLOOR	C3	C600X400M40	0.8 %
5TH FLOOR	C3	C600X400M40	0.8 %
4TH FLOOR	C3	C600X400M40	0.8 %
3RD FLOOR	C3	C600X400M40	0.8 %
2ND FLOOR	C3	C600X400M40	0.8 %
1ST FLOOR	C3	C600X400M40	0.8 %
STILT FLOOR	C3	C600X400M40	0.8 %
2ND FLOOR	C4	C600X600M40	0.8 %
1ST FLOOR	C4	C600X600M40	0.8 %
STILT FLOOR	C4	C600X600M40	0.8 %
1ST FLOOR	C5	C600M40	0.8 %
STILT FLOOR	C5	C600M40	0.8 %
2ND FLOOR	C6	C600X600M40	0.8 %
1ST FLOOR	C6	C600X600M40	0.8 %
STILT FLOOR	C6	C600X600M40	0.8 %
2ND FLOOR	C7	C750X750M40	1.73 %
1ST FLOOR	C7	C750X750M40	1.29 %
STILT FLOOR	C7	C750X750M40	0.8 %
1ST FLOOR	C8	C600X600M40	0.8 %
STILT FLOOR	C8	C600X600M40	0.8 %
1ST FLOOR	C9	C600X600M40	0.84 %
STILT FLOOR	C9	C600X600M40	0.8 %

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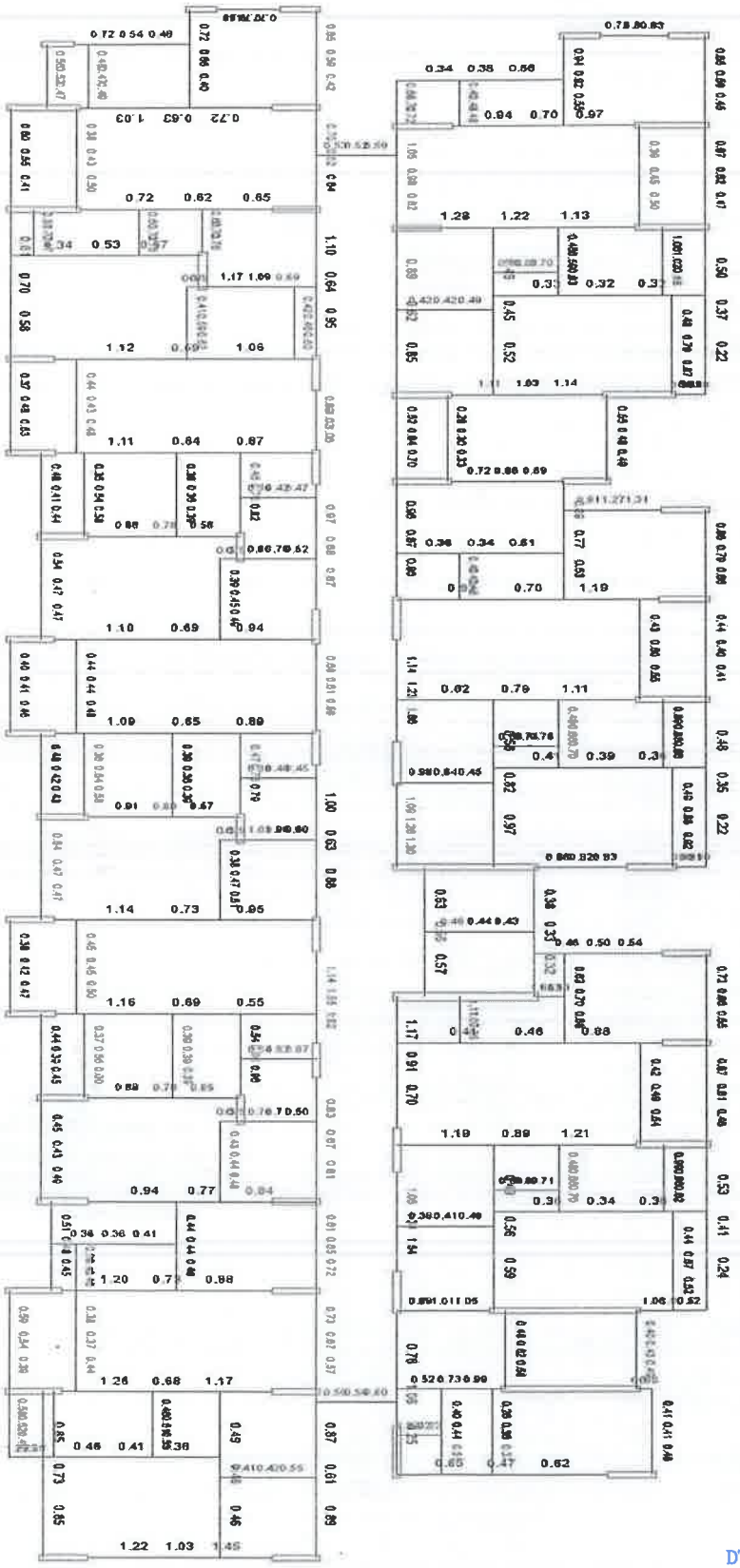
27.1 RCC Beam Main Reinforcement in ETABS:

Tower A



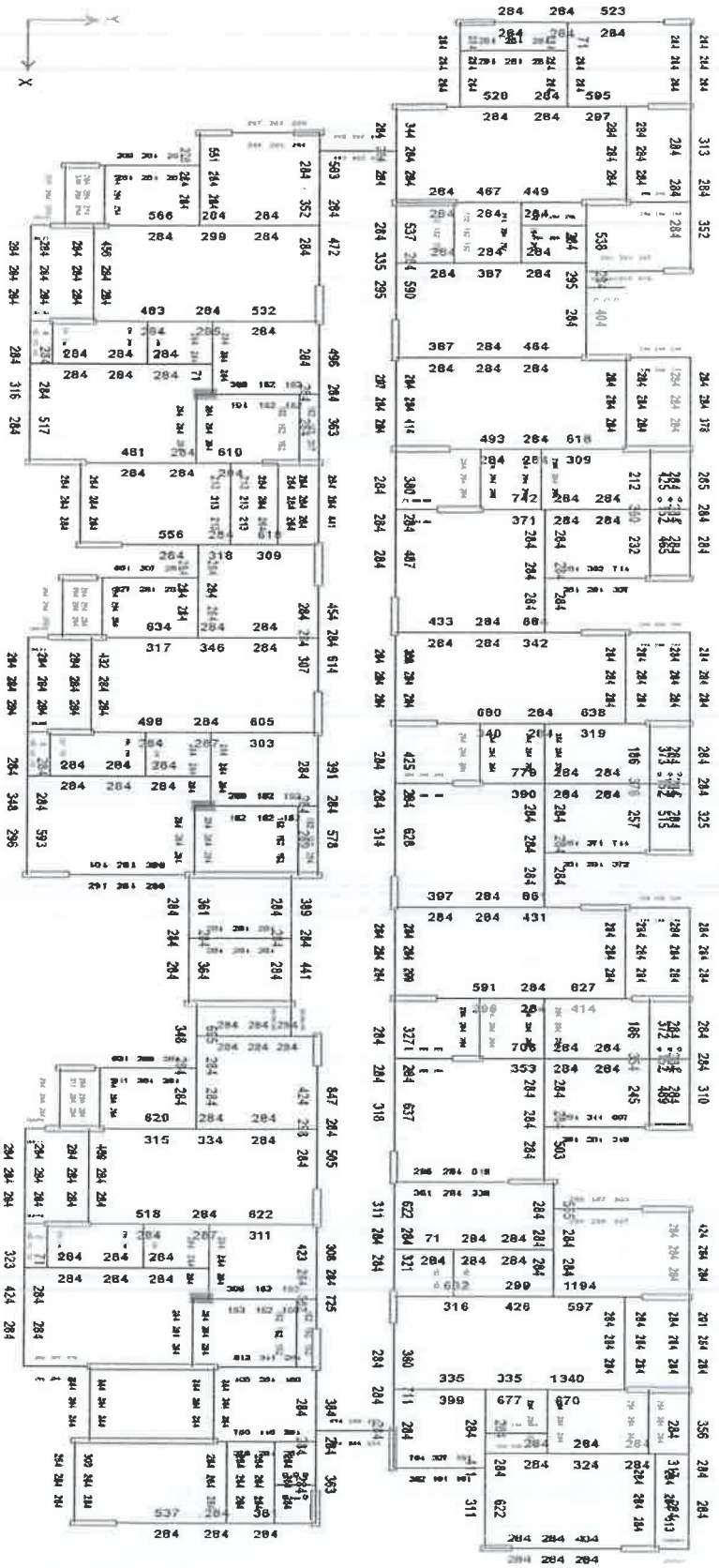
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27.2 RCC Beam Shear Reinforcement in ETABS: Tower A



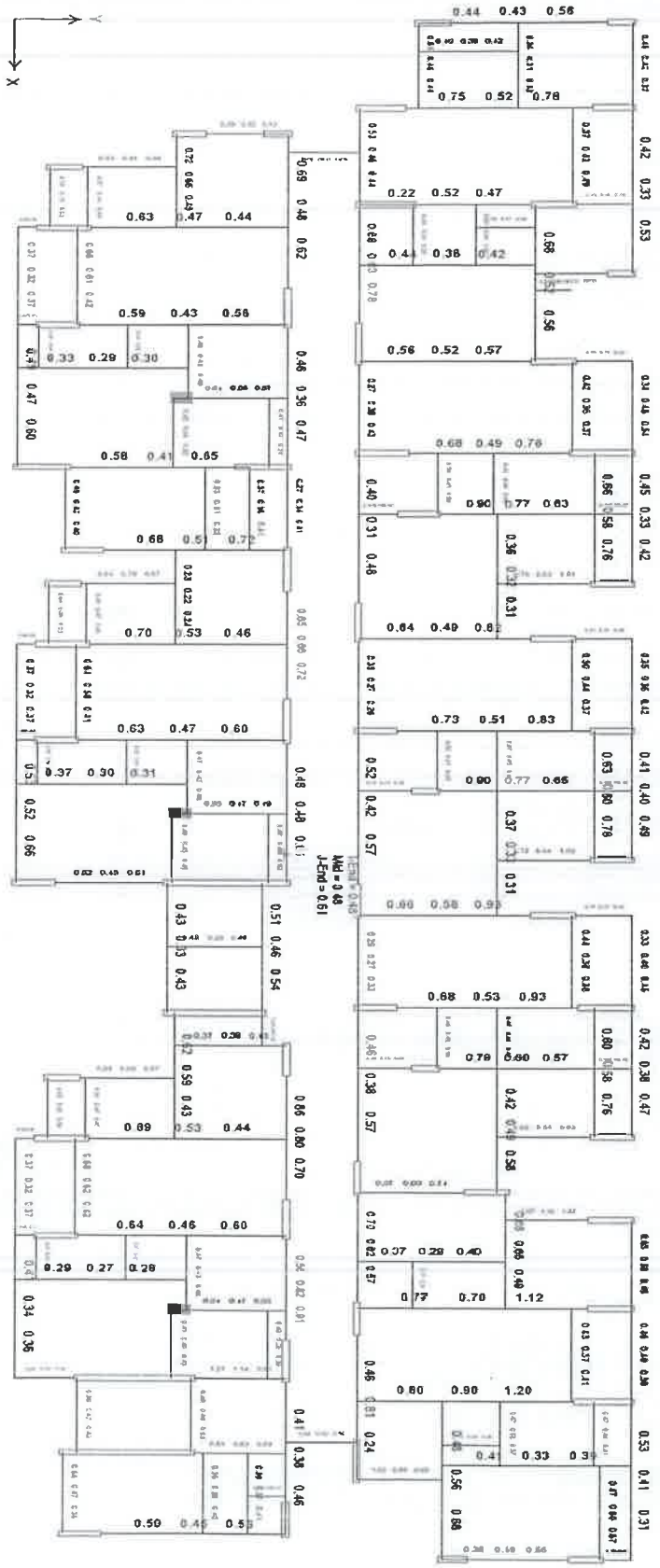
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27.3 RCC Beam Main Reinforcement in ETABS: Tower B



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27.4 RCC Beam Shear Reinforcement in ETABS: Tower B



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28.1 ONEWAY SLAB DESIGN:

Slab Marked :			S3							
span =	3.500	m								
Thickness of slab D =				150	mm					
d_{eff}	=	150	-	25	=	125	mm			
Loading :										
Self wt. Of slab			=	0.15	x	2.5	=	0.375	t/m^2	
L.L.			=					0.2		
F.F			=					0.1		
Filling/steps			=					0.0		
								0.675	t/m^2	
Bending Moment :										
M	=	0.675	x	3.5^2				1.034	tm	
			8							
Qu	=	Mu	=	1.034	x	1.5 x	10^7	=	0.992	N/mm^2
		$b \times d^2$		1000 x	125	x	125			
fck	=	30	N/mm^2		&	fy	=	500	N/mm^2	
Main Reinforcement.										
$pt = \frac{50 x fck}{fy}\left[1-\sqrt{1-((4.6 x Qu)/(fck))}\right]$										
pt	=	0.238	%							
Ast	=	pt x 1000 x deff.			=	297.04	mm^2			
Min Steel Reqd	=	0.12 % of c/s. area								
Min Ast Reqd	=	0.12	x 1000	x 150	=	180	mm^2			
			100							
Main steel Reqd.		8	Tor	@	169.2	mm c/c.				
Main steel Provided		8	Tor	@	125.0	mm c/c.				
Ast provided			=	402.12	mm^2		>	297.04	mm^2	

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Distribution Reinforcement.

= 0.12 % of c/s. area

Ast = 180 mm^2

Dist steel Reqd. 8 Tor @ 279.3 mm c/c.

Dist steel Provided 8 Tor @ 250 mm c/c.

Check for Shear.

$$Vu = \frac{0.675 \times 1.5 \times 3.500}{2} = 1.772 \text{ t}$$

$$Tv = \frac{Vu}{b \times d}$$

$$= \frac{1.772 \times 10^4}{1000 \times 125} = 0.1418 \text{ N/mm}^2$$

$$\% \text{ steel provided} = \frac{402.12 \times 100}{1000 \times 125} = 0.322 \%$$

Tc = 0.412 N/mm^2 (Refer Table 19 of IS 456 : 2000)

For D = 150

K = 1.3 (Refer Cl : 40.2.1.1 of IS 456 : 2000

$\therefore$ K Tc = 1.3 x 0.412 = 0.535 N/mm^2

Tv < K Tc Hence OK

Check for Deflection.

Refer fig.4 page. 38 of IS 456 : 2000

$$fs = 0.58 \times fy \times \frac{\text{Area of cross-section of steel required}}{\text{Area of cross-section of steel provided}}$$

$$= 0.58 \times 500 \times \frac{297.04}{402.125}$$

= 214.21 N/mm^2

% steel provided = 0.322 %

Modification factor = 1.67

$$\frac{\text{Span}}{d} < 20 \times M.F$$

$$\text{Required } d = \frac{3500}{1.67 \times 20} = 104.91 \text{ mm}$$

Required D = 104.91 + 25 = 129.91

Provided D = 150 mm Hence OK

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28.2 TWOWAY SLAB DESIGN:

Slab Marked :			S1							
Short Span =	3.100 m				Long Span =	3.500 m				
Thickness of slab D =				125	mm					
d_{eff} (for short span)	=	125	-	29	=	96	mm			
d_{eff} (for long span)	=	125	-	37	=	88	mm			
Loading :										
Self wt. Of slab			=	0.125	x	2.5	=	0.3125	t/m^2	
L.L.			=					0.2		
F.F			=					0.1		
Filling/steps			=					0.0		
								0.6125	t/m^2	
Bending Moment :										
Lx/Ly	=	1.129032								
$\acute{\alpha}_x$	=	0.0769								
$\acute{\alpha}_v$		0.0604								
Mx	=	0.6125	x	3.1 ^{2}		x	0.0769	=	0.452662	T-m
My	=	0.6125	x	3.1 ^{2}		x	0.0604	=	0.355636	T-m
Qux	=	Mux	=	0.4527	x	1.5 x	10^7	=	0.737	N/mm^2
		$b \times d^2$		1000 x		96	x 96			
Qux	=	Muy	=	0.3556	x	1.5 x	10^7	=	0.689	N/mm^2
		$b \times d^2$		1000 x		88	x 88			
Main Reinforcement.										
Short Span steel										
Qux	=	0.737	N/mm^2							
fck	=	30	N/mm^2		&	fy	=	500	N/mm^2	
As per SP-16										
pt	=	0.174	%							
Ast	=	pt x 1000 x deff.			=	167.49	mm^2			
Min Steel Reqd =		0.12 % of c/s. area								
Min Ast Reqd	=	0.12 x	1000 x	96		=		115.2	mm^2	
			10000							
Main steel Reqd.		8	Tor	@	300.0	mm c/c.				
Main steel Provided		8	Tor	@	200.0	mm c/c.				
Ast provided			=	251.20	mm^2		>	167.49	mm^2	

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Long Span steel

Quy = 0.689 N/mm^2

fck = 30 N/mm^2 & fy = 500 N/mm^2

As per SP-16

pt = 0.163 %

Ast = pt x 1000 x deff. = 143.26 mm^2

Min Steel Reqd = 0.12 % of c/s. area

Min Ast Reqd = $\frac{0.12 \times 1000 \times 88}{10000}$ = 105.6 mm^2

Main steel Reqd. 8 Tor @ 350.7 mm c/c.

Main steel Provided 8 Tor @ 200.0 mm c/c.

Ast provided = 251.20 mm^2 143.26 mm^2

Check for Shear.

Vu = $\frac{0.6125 \times 1.5 \times 3.1}{2}$ = 1.424 T

Tv = $\frac{Vu}{b \times d}$

= $\frac{1.424 \times 10^4}{1000 \times 96}$ = 0.14834 N/mm^2

% steel provided = 0.262 %

Tc = 0.376 N/mm^2 (Refer Table 19 of IS 456 : 2000)

For D = 125

K = 1.3 (Refer Cl : 40.2.1.1 of IS 456 : 2000)

∴ K Tc = 1.3 x 0.387 = 0.504 N/mm^2

Tv < K Tc Hence OK

Check for Deflection.

Refer fig.4 page. 38 of IS 456 : 2000

fs = 0.58 x fy x $\frac{\text{Area of cross-section of steel required}}{\text{Area of cross-section of steel provided}}$

= 0.58 x 500 x $\frac{167.49}{251.20}$

= 193.36 N/mm^2

% steel provided = 0.262 %

Modification factor = 2.07

$\frac{\text{Span}}{d}$ < 20 x M.F

Required d = $\frac{3}{2.07 \times 20}$ = 74.97 mm

Required D = 74.97 + 29 = 103.97

Provided D = 125 mm Hence OK

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