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DIGITALLY VERIFIED RECORD

V.JAGEN
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CHARTERED ENGINEER, CONSULTANT
CIVIL & STRUCTURAL, APPROVED VALUER,
CMDA REGN NOS: SE / GR - I / 19 / 03 / 24 , QA / 19 / 04 / 21.
CORPORATION OF CHENNAI , REGN NO: RSE100172019.

FLAT NO:3B, RAMANIYAM GAURAVV 2
BLOCK-2, MODEL SCHOOL ROAD,
SHOLINGANALLUR, CHENNAI –119.
MOBILE : 98412 69154

17/09/2025

CERTIFICATE

IT IS CERTIFIED THAT THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING (HRB) CONSISTING OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING WITH 30 DWELLING UNITS OF HEIGHT 30.0M ABUTTING GANDHI NAGAR FIRST MAIN ROAD, ADYAR, CHENNAI, COMPRISED IN DOOR NO. 107/49, OLD S.NO: 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION IS DESIGNED TO RESIST EARTHQUAKE. CHECK HAS BEEN MADE AND FOUND SAFE AND I HEREBY CERTIFY THAT,

1. The minimum grade of concrete is M25.
2. The design and analysis using the code of practice for loading Standards as per IS-875 Part I to V and seismic force as per code IS 1893, is carried out.

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

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Mobile: 9841[illegible]

PROPOSED HIGH RISE RESIDENTIAL BUILDING

"RAMANIYAM ANANTIYA"

AT OLD DOOR NO.49, NEW DOOR NO.107,1ST MAIN ROAD,GANDHI NAGAR, ADYAR, CHENNAI-600 020

DESIGN BASIS REPORT

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1. Introduction:

The building comprises of Stilt + 9 Upper Floors + Terrace.

Floor Heights: Stilt Floor – 2.910m & Typical Floor – 3.01m.

No of Dwelling Units – 30 Flats

The objective of this report is to provide and furnish complete structural details related to this project.

This report will cover information on Codes of practice, Design loading, Material strength considered for design and analysis of the building. In addition to this report includes Structural system, Foundation system, Structural analysis adopted for design of the building.

The superstructure comprises a combination of conventional beam and slab system supported by Columns, which is supported on Pile Foundation as per soil report and recommendations.

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2. Design Loads:

2.1 Dead Loads:

A dead load is a load (weight) that doesn't change significantly over time. The unit weight of the various elements is computed based on the unit weight of the materials as given below:

Materials	Unit Weights (kN/m^3)
Reinforced Cement Concrete	25
Plain Cement Concrete	24
Porotherm Bricks	7.5
Steel	78.5
Soil	20
Water	10
Cement Concrete Screed	21
Clay Bricks	18.88

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2.2 Imposed Loads & Live Loads:

The imposed loads that are envisaged to act permanently (wherever applicable) are as following: -

Items	Load Intensity
Floor Finish (50mm thick screed)	1.2 kN/m^2
100mm sunken portions in toilets	2 kN/m^2
375 mm sunken portions in toilets	6.9kN/m^2
150mm Weathering course in terrace	3.6 kN/m^2
Lift Machine Room(LMR)	20 kN/m^2
Over Head Tank(OHT)	10(kN/m^3) x Water Height(m)

The superimposed load or otherwise live load assessed based on the occupancy classifications as per IS: 875 (Part 2) - 1987 is listed as follows: -

SL.No	Occupancy Classification	UDL kN/m^2
1.	Living, Kitchen& Bed Room	2.00
2.	Toilets & Bathrooms	2.00
3.	Corridors, Balconies, Staircases including Fire escapes	3.00
4.	Terrace Floor	1.50

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2.3 Wind Load

Wind Loads for structure and elements shall be calculated in accordance with provisions laid in IS: 875-2015(Part 3) & basic data as follows.

Description	Data	Remarks
Basic Wind Speed, V_b	50 m/s	Chennai
Probability Factor (Risk Co-efficient), k_1	1.00	General buildings & Structures (for return period of 50 years)
Terrain Category	3	Terrain with numerous closely spaced obstructions having the size of Buildings/structures up to 10 m in height with or without a few isolated tall structures.
Terrain, height and structure size factor,k_2	K_2 = 1.00 up to 10m height and K_2 = 1.07 at 36.01m height	As per Structure class and height of structure
Topography factor, k_3	1.00	Upwind Slope is lesser than 3°
Importance factor for cyclonic region, k_4	1.00	Clause 6.3.4, IS 875-2015 (Part 3)

Design Wind Speed at the height Z V_z = $V_b * k_1 * k_2 * k_3 * k_4$

Design Wind pressure at the height Z P_z = $0.6 * V_z^2$

Wind Directionality Factor K_d = 0.9 (Clause 7.2.1)

Area Averaging Factor K_a = 0.9 (Clause 7.2.2)

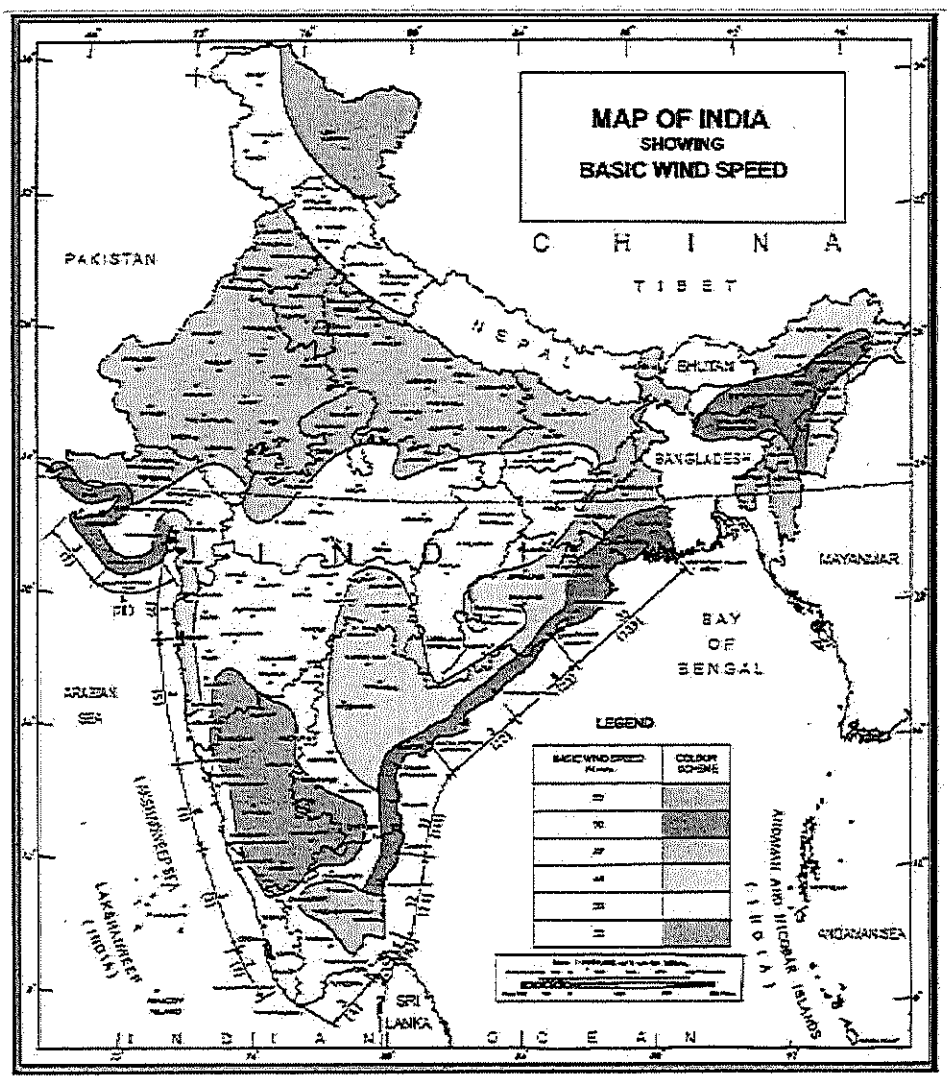
Combination Factor K_c = 0.9 (Clause 7.3.3.13)

Design Wind Pressure P_d = Max ($(K_d * K_a * K_c * P_z)$ or $0.7P_z$)

Calculated Wind loads are applied over structure in 0°,90°,180° and 270° Wind Directions.

Application of Wind load shall as per IS 875 2015 (Part 3)

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2.4 Seismic Loads

Structure and foundation shall be designed to resist the effects of earthquakes in accordance with IS: 1893 (Part – 1) – 2016. Response Spectrum method will be used to carry out seismic analysis.

Total lateral force (base shear) of the building shall be estimated at ground floor level as per clause 7.2.1 of IS1893-2016 which provides by

Base Shear = Ah x W

Ah is horizontal seismic coefficient and W is seismic weight of building.

Seismic weight is summation of total dead load and 25% of live load where live load is equal and less than 3kN/sq.m. (As per Table 10 of IS1893 (Part-1) 2016)

Ah = (Z/2) x (I/R)x(Sa/g)

Seismic parameters Z, I, R and (Sa/g) are obtained as per table below.

Item	Value	Reference
Seismic Zone	Zone – III	Annex – E IS 1893 (Part 1)-2016
Zone Factor (z)	0.16	Table 3 Clause 6.4.2 IS 1893 (Part 1)-2016
Importance Factor (I)	1	Table 8 IS 1893 (Part 1)-2016
Damping	5%	Clause 7.2.4 IS 1893 (Part 1)-2016
Design acceleration Coefficient(Response Spectrum Method)	1+15T, T<0.10s 2.5,0.10s<T<0.55s 1.36/T,0.55s<T<4.00s 0.34 T>4.00s	Clause 6.4.2 For Medium Stiff Soil Sites IS 1893 (Part 1)-2016
Response reduction factor (R)	5	Table 9 Clause 7.2.6 IS 1893 (Part 1)-2016

Fundamental natural time period shall be based on clause 7.6.2(b) of IS 1893 (Part 1)-2016.

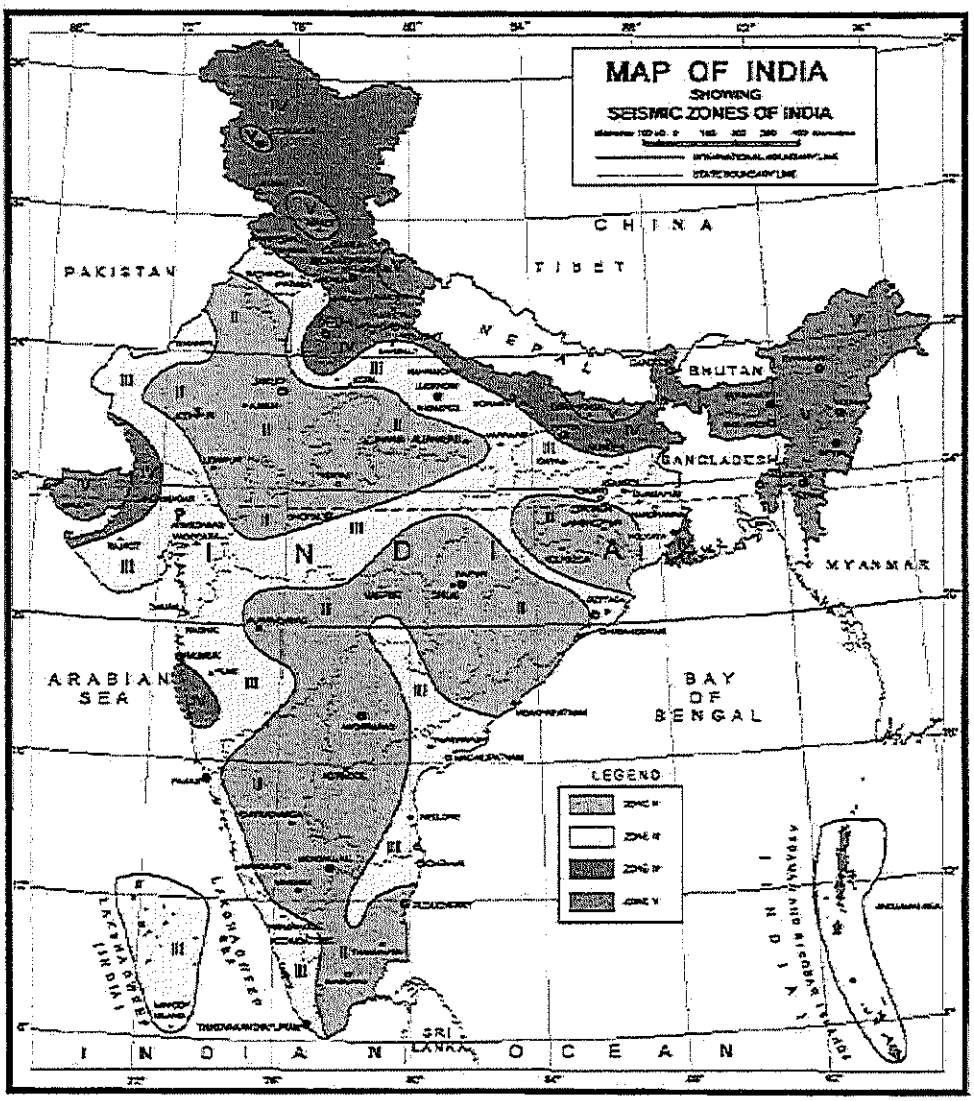
T_a = 0.09h/√d

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h = Height of the building as per Clause 7.6.2(a)

d = Basic dimension of the building at the plinth level along the considered direction of Earthquake.

The structure is assumed as Building with ductile RC building with special moment resisting Frame (SMRF) and designed as per IS: 13920-2016 in addition to the common detailing Clauses in IS 456.



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2.5 Load Combinations

The various load combinations used for **Design** as per IS code are as follows.

1.1.5(DL+LL)

2.1.2(DL+LL±RSX)

3. 1.2(DL+LL±RSZ)

4. 1.2(DL+LL±WLX)

5. 1.2(DL+LL±WLZ)

6.1.5(DL±RSX)

7. 1.5(DL±RSZ)

8. 1.5(DL±WLX)

9. 1.5(DL±WLZ)

10.0.9DL±1.5RSX

11.0.9DL±1.5RSZ

12.0.9DL±1.5WLX

13.0.9DL±1.5WLZ

The various load combinations used for **Serviceability** as per IS code are as follows.

1.1.0(DL+LL)

2.1.0DL+0.8LL±0.8RSX

3. 1.0DL+0.8LL±0.8RSZ

4. 1.0DL+0.8LL±0.8WLX

5. 1.0DL+0.8LL±0.8WLZ

6.1.0(DL±RSX)

7. 1.0(DL±RSZ)

8. 1.0(DL±WLX)

9. 1.0(DL±WLZ)

on behalf of Panel, Structural design calculations are received and found in order.

Superintending Engineer, P.W.D.,
Planning and Designs Circle,
Chepauk, Chennai-5.

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DL - Dead Load

LL - Live Load

WLX - Wind Load in X-Direction

WLZ - Wind Load in Z-Direction

RSX - Earthquake Load in X-Direction

RSZ - Earthquake Load in Z-Direction

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3. MATERIAL GRADES

3.1.) CONCRETE

Grade M35 (f_{ck}=35 N/mm^2) for Pile cap, Roof Beam & Slabs, Overhead water Tank and UG water Tank.

Grade M40 (f_{ck}=40N/mm^2) for Lift Core wall and columns.

Grade M15 (f_{ck}=15N/mm^2) for P.C.C below footing and plinth beam.

3.2.) REINFORCEMENT

Reinforcement bars of grade 550D conform to IS 1786-2008.

4. DEFLECTION CRITERIA

1. Lateral Deflection(Wind)
   Under transient Wind Load < Height/500
   Sway at top of building
   (As per IS456-2000 Cl.20.5)
2. Lateral Deflection(Seismic)
   Storey Drift < 0.004 times Storey Height
   As per Is 1893-2016(Part-1) Cl.7.11.1
3. Vertical Deflection of Beams and Slabs due to Gravity Loads
   Total Deflection (DL+LL) < Span /250
   Deflection including the effects
   Of Temperature, Creep and
   Shrinkage occurring after
   Erection of partitions and the
   Application of finishes < Span/350 or 20mm whichever is less
   As per IS1456-2000 CL.23.2

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5. STRUCTURAL SYSTEM

5.1. SUB-STRUCTURE (FOUNDATION)

Proposed Foundation system is Pile foundation and the capacity of 600mm dia pile is 1350kN. The founding depth is to be 18m from the Existing ground level with reference to the soil investigation report from Geo Marine Consultants (P) Ltd.

5.2. SUPER-STRUCTURE

The structural system for the super structure is R.C.C Beam with R.C.C Slab. The Slab thickness is to be 125mm/150mm/175mm.

6. NOMINAL COVER TO REINFORCEMENT

Cover to reinforcement considered for various elements

Element	Exposure Condition	Cover as per exposure condition(mm)	Cover as per 2hrs fire rating	Actual cover
Pile	Moderate	50		75
Pile Cap	Moderate	50		50
Column	Mild	40	40	40
Lift Core/Shear Wall	Mild	30	30	30
Slab	Mild	20	35	20*
Beam	Mild	20	40	30*
Water Tank/UG Sump	Moderate	40		40

*Short fall of cover for the basic requirement of the fire resistance shall be managed through plastering

7. ANALYSIS METHODS

3D analysis of the structure is carried out using STAAD PRO 2023.For seismic analysis, response spectrum analysis is considered.

8. DESIGN METHODOLOGY

Structural members shall be designed for worst load combination of forces such as Axial force, Shear force, Bending Moment, torsion etc. RCDC and in-house spreadsheets will be used for design of structural elements.

All columns shall be designed for Minimum eccentricity, equal to the unsupported length of column/500 plus lateral dimension/30, subject to a minimum of 20mm.

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9. CODES AND STANDARDS

The relevant Standards/codes used for the design of various elements and components of the building are given below

SL.NO.	CODE	DESCRIPTION
1.	IS 875(Part 1) 1987	Code of Practice for Design Loads (other than earthquake) for buildings and structures – Unit weights of buildings materials and stored material
2.	IS 875(Part 2) 1987	Code of Practice for Design Loads (other than earthquake) for buildings and structures – Imposed Loads
3.	IS 875(Part 3) 2015	Code of Practice for Design Loads (other than earthquake) for buildings and structures – Wind Loads
4.	IS 875(Part 5) 2015	Code of Practice for Design Loads (other than earthquake) for buildings and structures – Special Loads and Load combinations
5.	IS456-2000	Code of Practice for Plain and Reinforced Concrete
6.	IS 13920-2016	Ductile detailing of reinforced concrete structures subjected to seismic forces – Code of Practice
7.	IS 1893-2016	Critical for earthquake resistant design of structures
8.	IS:2911:Part1/Sec2:2010	Code of Practice for design and construction of pile foundations: Part 1 Concrete piles, Section 2 Bored cast in-situ piles
9.	SP16 – 1980	Design Aids for Reinforced Concrete to IS 456
10.	SP34	Handbook on concrete reinforcement and detailing

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COLUMN DESIGN

Project : ANANTIYA (S+9)	*RAMANIYAM DESIGNS*		
	Design by:Jagen	*Date :02/09/25*	*Page :*
Column marking: C1	*Checked by:*	*Revision:*	*Job no:*

Data

Column sizes	300	x	800	mm
Grade of concrete		fck	40	N/mm^2
Grade of steel		fy	500	N/mm^2
Unsupp. length of column		lo	3300	mm
Clear cover		c	40	mm
Dia of bar used		@	20	mm
Material factor		ym	1.5	
Effective cover (d')		d'	50	d'/D = 0.0625

Design Calculation

Eccentricity : l/500+Lateral Dimension/30 — emin — 16.6 — Refer: IS-456-2000

Refer: SP16

Floor Lvl	Load(Pu)KN	Moment (Mu)KNM	Moment due to eccentricity	Pu/(fckbD)	Mu /(fck bD^2)	Pt/fck	Pt (%)	Required Ast (mm^2)	Provided Reinforcement
Stilt floor &1st Floor	2306	295	38.2796	0.24020833	0.038	0.025	1	2400	6Y20+6Y16
2nd floor level & 3rd lvl	1845	295	30.62368	0.19216667	0.038	0.025	1	2400	6Y20+6Y16
4th Floor & 5th Floor Lvl	1476	295	24.498944	0.15373333	0.038	0.025	1	2400	12Y16
6th Floor & 7th Floor Lvl	1181	295	19.5991552	0.12298667	0.038	0.025	1	2400	12Y16
8th Floor, 9th Floor Lvl& Terrace Floor Lvl	945	295	15.6793242	0.09838933	0.038	0.025	1	2400	12Y16

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COLUMN DESIGN

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	Design by:Jagen	*Date :29/04/25*	*Page :*
Column marking: C2	*Checked by:*	*Revision:*	*Job no:*

Data

Column sizes	300	x	800	mm	
Grade of concrete		fck	40	N/mm^2	
Grade of steel		fy	500	N/mm^2	
Unsupp. length of column		lo	3300	mm	
Clear cover		c	40	mm	
Dia of bar used		@	20	mm	
Material factor		ym	1.5		
Effective cover (d')		d'	50		d'/D = 0.0625

Design Calculation

Eccentricity : l/500+Lateral Dimension/30 — emin — 16.6 — Refer: IS-456-2000

Refer: SP16

Floor Lvl	Load(Pu)KN	Moment (Mu)KNM	Moment due to eccentricity	Pu/(fckbD)	Mu /(fck bD^2)	Pt/fck	Pt (%)	Required Ast (mm^2)	Provided Reinforcement
Stilt floor &1st Floor	2591	225	43.0106	0.26989583	0.029	0.04	1.6	3840	14Y20
2nd floor level & 3rd lvl	2073	225	34.40848	0.21591667	0.029	0.04	1.6	3840	10Y20+4Y16
4th Floor & 5th Floor Lvl	1658	225	27.526784	0.17273333	0.029	0.035	1.4	3360	6Y20+8Y16
6th Floor & 7th Floor Lvl	1327	225	22.0214272	0.13818667	0.029	0.035	1.4	3360	6Y20+8Y16
8th Floor, 9th Floor Lvl& Terrace Floor Lvl	1061	225	17.6171418	0.11054933	0.029	0.03	1.2	2880	14Y16

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COLUMN DESIGN

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	Design by:Jagen	*Date :29/04/25*	*Page :*
Column marking:	*C3*	*Checked by:*	*Revision:*	*Job no:*

Data

Column sizes	300	x	800	mm	
Grade of concrete		fck	40	N/mm^2	
Grade of steel		fy	500	N/mm^2	
Unsupp. length of column		lo	3300	mm	
Clear cover		c	40	mm	
Dia of bar used		@	20	mm	
Material factor		ym	1.5		
Effective cover (d')		d'	50		d'/D = 0.0625

Design Calculation

Eccentricity : l/500+Lateral Dimension/30 — emin — 16.6 — Refer: IS-456-2000

Refer: SP16

Floor Lvl	Load(Pu)KN	Moment (Mu)KNM	Moment due to eccentricity	Pu/(fckbD)	Mu /(fck bD^2)	Pt/fck	Pt (%)	Required Ast (mm^2)	Provided Reinforcement
Stilt floor &1st Floor	2946	277	48.9036	0.306875	0.036	0.055	2.2	5280	12Y25
2nd floor level & 3rd lvl	2357	277	39.12288	0.2455	0.036	0.05	2	4800	8Y25+4Y20
4th Floor & 5th Floor Lvl	1885	277	31.298304	0.1964	0.036	0.045	1.8	4320	6Y25+6Y20
6th Floor & 7th Floor Lvl	1508	277	25.0386432	0.15712	0.036	0.035	1.4	3360	12Y20
8th Floor, 9th Floor Lvl& Terrace Floor Lvl	1207	277	20.0309146	0.125696	0.036	0.02	0.8	1920	8Y20+4Y16

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

COLUMN DESIGN

Project : ANANTIYA (S+9)	*RAMANIYAM DESIGNS*		
	Design by:Jagen	*Date :29/04/25*	*Page :*
Column marking: C4	*Checked by:*	*Revision:*	*Job no:*

Data

Column sizes	300	x	800	mm	
Grade of concrete		fck	40	N/mm^2	
Grade of steel		fy	500	N/mm^2	
Unsupp. length of column		lo	3300	mm	
Clear cover		c	40	mm	
Dia of bar used		@	20	mm	
Material factor		ym	1.5		
Effective cover (d')		d'	50		d'/D = 0.0625

Design Calculation

Eccentricity : l/500+Lateral Dimension/30 — emin — 16.6 — Refer: IS-456-2000

Refer: SP16

Floor Lvl	Load(Pu)KN	Moment (Mu)KNM	Moment due to eccentricity	Pu/(fckbD)	Mu /(fck bD^2)	Pt/fck	Pt (%)	Required Ast (mm^2)	Provided Reinforcement
Stilt floor &1st Floor	3550	248	58.93	0.36979167	0.032	0.065	2.6	6240	14Y25
2nd floor level & 3rd lvl	2840	248	47.144	0.29583333	0.032	0.05	2	4800	6Y25+8Y20
4th Floor & 5th Floor Lvl	2272	248	37.7152	0.23666667	0.032	0.04	1.6	3840	14Y20
6th Floor & 7th Floor Lvl	1818	248	30.17216	0.18933333	0.032	0.04	1.6	3840	6Y20+8Y16
8th Floor, 9th Floor Lvl& Terrace Floor Lvl	1454	248	24.137728	0.15146667	0.032	0.04	1.6	3840	6Y20+8Y16

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COLUMN DESIGN

Project : ANANTIYA (S+9)	RAMANIYAM DESIGNS		
	Design by:Jagen	*Date :29/04/25*	*Page :*
Column marking: C5	*Checked by:*	*Revision:*	*Job no:*

Data

Column sizes	300	x	800	mm
Grade of concrete		fck	40	N/mm^2
Grade of steel		fy	500	N/mm^2
Unsupp. length of column		lo	3300	mm
Clear cover		c	40	mm
Dia of bar used		@	20	mm
Material factor		ym	1.5	
Effective cover (d')		d'	50	d'/D = 0.0625

Design Calculation

Eccentricity : l/500+Lateral Dimension/30 — emin — 16.6 — Refer: IS-456-2000

Refer: SP16

Floor Lvl	Load(Pu)KN	Moment (Mu)KNM	Moment due to eccentricity	Pu/(fckbD)	Mu /(fck bD^2)	Pt/fck	Pt (%)	Required Ast (mm^2)	Provided Reinforcement
Stilt floor &1st Floor	4202	170	69.7532	0.43770833	0.022	0.065	2.6	6240	16Y25
2nd floor level & 3rd lvl	3362	170	55.80256	0.35016667	0.022	0.06	2.4	5760	6Y25+10Y20
4th Floor & 5th Floor Lvl	2689	170	44.642048	0.28013333	0.022	0.05	2	4800	6Y20+10Y16
6th Floor & 7th Floor Lvl	2151	170	35.7136384	0.22410667	0.022	0.04	1.6	3840	16Y16
8th Floor, 9th Floor Lvl& Terrace Floor Lvl	1721	170	28.5709107	0.17928533	0.022	0.04	1.6	3840	16Y16

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COLUMN DESIGN

Project :	*ANANTIYA (S+9)*	*RAMANIYAM DESIGNS*	
		Design by:Jagen	*Date :02/09/25*	*Page :*
Column marking:	*C6*	*Checked by:*	*Revision:*	*Job no:*

Data

Column sizes	300	x	600	mm		
Grade of concrete		fck	40	N/mm^2		
Grade of steel		fy	500	N/mm^2		
Unsupp. length of column		lo	3300	mm		
Clear cover		c	40	mm		
Dia of bar used		@	20	mm		
Material factor		ym	1.5			
Effective cover (d')		d'	50		d'/D =	0.083333333

Design Calculation

Eccentricity : l/500+Lateral Dimension/30 — emin — 16.6 — Refer: IS-456-2000

Refer: SP16

Floor Lvl	Load(Pu)KN	Moment (Mu)KNM	Moment due to eccentricity	Pu/(fckbD)	Mu /(fck bD^2)	Pt/fck	Pt (%)	Required Ast (mm^2)	Provided Reinforcement
Stilt floor &1st Floor	1623	100	26.9418	0.22541667	0.023	0.025	1	1800	6Y20+6Y16
2nd floor level & 3rd lvl	1298	100	21.55344	0.18033333	0.023	0.025	1	1800	6Y20+6Y16
4th Floor & 5th Floor Lvl	1039	100	17.242752	0.14426667	0.023	0.025	1	1800	12Y16

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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-06-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

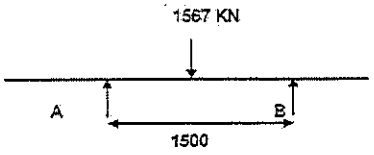
DESIGN OF PILECAP FOR 2 PILES

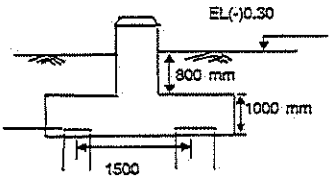
Load is applied at Centre of the Pile cap level

Support reactions

Governing Case : N: PC1

Paxial = 1567 Kn





Assume

Diameter of the pile	=	600	mm.
Length of the pile cap	=	2400	mm.
Width of pile cap	=	900	mm.
Depth of the pile cap	=	1000	mm. (Assumed)
Concrete Grade	=	35	N/mm^2
Steel Grade	=	500	N/mm^2

Height of soil above pile cap	=	0.800	m
Max. Vertical compression	=	1567.00	kN
Depth of the column/pedestal	=	800	mm.
Width of the column/pedestal	=	300	mm.

Selfweight of pile cap = 2.4 x0.9 x1x25

= 54.000 KN

Soil weight on pilecap = 0.8x (2.4 x0.9-0.8x0.3) x 18

= 27.65 KN

Total compression due to soil load + pile cap

(W) = 81.650 KN

= 81.65 /2.4 = 34.02083333 kN/m

Ra= 1567/2+81.65/2 = 824.33 kN.

Rb= 1567/2+81.65/2 = 824.33 kN.

BM @ face of the column = 824.33x0.6 - 34.021x 1.05x1.05 / 2

= 475.85 kN-m.

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BLOCK-2, MODEL SCHOOL ROAD
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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-06-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

Total Moment, M = 475.85 kN-m.

Depth of the pile cap as = 1000 mm

cover = 60 mm

Assume 16 mm ϕ bar & 12 mm ϕ stirrups

d' = 60+8+12 = 80 mm

d_{eff} = 920 mm

$$Mu/bD^2 = \frac{475.85 \times 1.5 \times 10^6}{900 \times 920^2}$$

$$= 0.94$$

For fck= 35 N/mm^2 & Fe 500 N/mm^2

Pt reqd. = 0.23 % (SP 16 Table -3)

Ast reqd. 1904.4 mm^2

Spacing required = 1000x314.16 /1904.4 = 164.965 mm

Provide 20 mm ϕ bars @ 160 mm c/c. Pt prov. = 0.237 %

Provide 6 no of 20 Y

Top reinforcement in long. Direction

Provide Min. Top reinforcement as (0.12/2)% = 0.06 %

= 0.06x900x1000/100 = 540 mm^2

Provide 16 mm ϕ bars @ 150 mm c/c at top.

Pt prov. = 0.126 %

Provide 6 no of 16 Y

Distribution reinforcement

Provide Min. Top and Bottom reinforcement as (0.12/2)% =0.06%

= 0.06x900x1000/100

= 540 mm^2

Provide 12 mm ϕ bars @ 150 mm c/c at top & bottom.

Pt prov. = 0.075 %

Check for punching shear @ column

P= 1567 kN

Punching shear = $\frac{1567 \times 1.5 \times 10^3}{[(800+920)+(300+920)]2 \times 920}$ = 0.435 N/mm^2

Permissible punching shear stress = $0.25\sqrt{fck}$

= 1.48 N/mm^2

Hence pilecap is safe from punching shear under column

Check for punching shear @ pile

P= 824.33 kN

Punching shear = $\frac{824.33 \times 1.5 \times 10^3}{(500X3.1416x2x920)}$ = 0.428 N/mm^2

< 1.48 N/mm^2

Hence pilecap is safe from punching shear under pile.

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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-06-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

Shear Check

Max. shear = 824.33 kN

Shear at 'd/2' distance from face of the column

i.e. at (0.400 + 0.460 = 0.860 m) from centre of the column

= 824.33-0.86 X 34.021

= 596.30 KN

Tv = $\frac{596.3 \times 1.5 \times 10^3}{900 \times 920}$ = 1.08 N/mm^2 < 3.5 N/mm2 (for M25 grade of concrete)

(for Pt = 0.237 , Tc = 0.35 N/mm2)

Vus/d = (1.08-0.350045863005484)x9 = 656.95872 N/mm

Spacing of stirrups = $\frac{0.87 \times 500 \times 2 \times 113.09}{656.9587233}$

= 149.76 mm.

Provide 2-legged 12mm dia. links @ 110 mm c/c

Side face reinforcement

0.05% on each face

= 0.05x900x920/100 = 414 N/mm^2

Provide 10dia. bars@150mmC/C on all the four side faces

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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-06-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

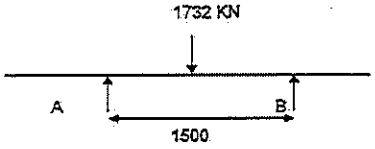
DESIGN OF PILECAP FOR 2 PILES

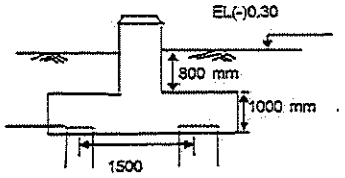
Load is applied at Centre of the Pile cap level

Support reactions

Governing Case : N: PC2

Paxial = 1732 Kn





Assume

Diameter of the pile	=	600	mm.
Length of the pile cap	=	2400	mm.
Width of pile cap	=	900	mm.
Depth of the pile cap	=	1000	mm. (Assumed)
Concrete Grade	=	35	N/mm^2
Steel Grade	=	500	N/mm^2

Height of soil above pile cap	=	0.800	m
Max. Vertical compression	=	1732.00	kN
Depth of the column/pedestal	=	450	mm.
Width of the column/pedestal	=	300	mm.

Selfweight of pile cap = 2.4 x0.9 x1x25

= 54.000 KN

Soil weight on pilecap = 0.8x (2.4 x0.9-0.45x0.3) x 18

= 29.16 KN

Total compression due to soil load + pile cap

(W) = 83.160 KN

= 83.16 /2.4 = 34.65 kN/m

Ra= 1732/2+83.16/2 = 907.58 kN.

Rb= 1732/2+83.16/2 = 907.58 kN.

BM @ face of the column = 907.58x0.6 - 34.65x 1.05x1.05 / 2

= 525.45 kN-m.

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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-06-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

Total Moment, M = 525.45 kN-m.

Depth of the pile cap as = 1000 mm

cover = 60 mm

Assume 16 mm ϕ bar & 12 mm ϕ stirrups

d' = 60+8+12 = 80 mm

d_{eff} = 920 mm

$$Mu/bD^2 = \frac{525.45 \times 1.5 \times 10^6}{900 \times 920^2}$$

$$= 1.03$$

For fck= 35 N/mm² & Fe 500 N/mm²

Pt reqd. = 0.26 % (SP 16 Table -3)

Ast reqd. 2152.8 mm²

Spacing required = 1000x314.16 /2152.8 = 145.931 mm

Provide 20 mm ϕ bars @ 145 mm c/c. Pt prov. = 0.262 %

Provide 7 no of 20 Y

Top reinforcement in long. Direction

Provide Min. Top reinforcement as (0.12/2)% = 0.06 %.

= 0.06x900x1000/100 = 540 mm²

Provide 16 mm ϕ bars @ 145 mm c/c at top.

Pt prov. = 0.139 %

Provide 7 no of 16 Y

Distribution reinforcement

Provide Min. Top and Bottom reinforcement as (0.12/2)% =0.06%

= 0.06x900x1000/100

= 540 mm²

Provide 12 mm ϕ bars @ 150 mm c/c at top & bottom.

Pt prov. = 0.075 %

Check for punching shear @ column

P= 1732 kN

Punching shear = $\frac{1732 \times 1.5 \times 10^3}{[(450+920)+(300+920)]\times 2\times 920}$ = 0.545 N/mm²

Permissible punching shear stress = $0.25\sqrt{fck}$

= 1.48 N/mm²

Hence pilecap is safe from punching shear under column

Check for punching shear @ pile

P= 907.58 kN

Punching shear = $\frac{907.58 \times 1.5 \times 10^3}{(500X3.1416\times 2\times 920)}$ = 0.471 N/mm²

< 1.48 N/mm²

Hence pilecap is safe from punching shear under pile.

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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-06-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

Shear Check

Max. shear = 907.58 kN

Shear at 'd/2' distance from face of the column

i.e. at (0.225 + 0.460 = 0.685 m) from centre of the column

= 907.58-0.685 X 34.65

= 537.67 KN

$Tv = \frac{537.7 \times 1.5 \times 10^3}{900 \times 920} = 0.974$ N/mm^2 < 3.5 N/mm2 (for M25 grade of concrete)

(for Pt = 0.262 , Tc = 0.37 N/mm2)

Vus/d = (0.974-0.366101599018602)x = 547.10856 N/mm

Spacing of stirrups = $\frac{0.87 \times 500 \times 2 \times 113.09}{547.1085609}$

= 179.83 mm.

Provide 2-legged 12mm dia. links @ 100 mm c/c

Side face reinforcement

0.05% on each face

= 0.05x900x920/100 = 414 N/mm^2

Provide 10dia. bars@150mmC/C on all the four side faces

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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-06-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

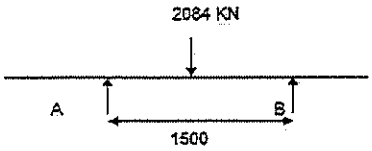
DESIGN OF PILECAP FOR 2 PILES

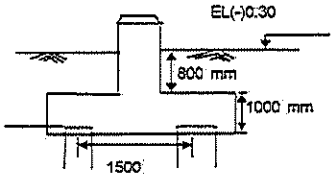
Load is applied at Centre of the Pile cap level

Support reactions

Governing Case : N: PC3

Paxial = 2084 Kn





Assume

Diameter of the pile	=	600	mm.
Length of the pile cap	=	2400	mm.
Width of pile cap	=	900	mm.
Depth of the pile cap	=	1000	mm. (Assumed)
Concrete Grade	=	35	N/mm^2
Steel Grade	=	500	N/mm^2

Height of soil above pile cap	=	0.800	m
Max. Vertical compression	=	2084.00	kN
Depth of the column/pedestal	=	800	mm.
Width of the column/pedestal	=	300	mm.

Selfweight of pile cap = 2.4 x0.9 x1x25

= 54.000 KN

Soil weight on pilecap = 0.8x (2.4 x0.9-0.8x0.3) x 18

= 27.65 KN

Total compression due to soil load + pile cap

(W) = 81.650 KN

= 81.65 /2.4 = 34.02083333 kN/m

Ra= 2084/2+81.65/2 = 1082.83 kN.

Rb= 2084/2+81.65/2 = 1082.83 kN.

BM @ face of the column = 1082.83x0.6 - 34.021x 1.05x1.05 / 2

= 630.95 kN-m.

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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-06-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

Total Moment, M = 630.95 kN-m.

Depth of the pile cap as = 1000 mm

cover = 60 mm

Assume 16 mm ϕ bar & 12 mm ϕ stirrups

d' = 60+8+12 = 80 mm

d_{eff} = 920 mm

$$Mu/bD^2 = \frac{630.95 \times 1.5 \times 10^6}{900 \times 920^2}$$

= 1.24

For fck= 35 N/mm^2 & Fe 500 N/mm^2

Pt reqd. = 0.305 % (SP 16 Table -3)

Ast reqd. 2525.4 mm^2

Spacing required = 1000x490.88 /2525.4 = 194.375 mm

Provide 25 mm ϕ bars @ 195 mm c/c. Pt prov. = 0.304 %

Provide 6 no of 25 Y

Top reinforcement in long. Direction

Provide Min. Top reinforcement as (0.12/2)% = 0.06 %

= 0.06x900x1000/100 = 540 mm^2

Provide 20 mm ϕ bars @ 190 mm c/c at top.

Pt prov. = 0.165 %

Provide 6 no of 20 Y

Distribution reinforcement

Provide Min. Top and Bottom reinforcement as (0.12/2)% =0.06%

= 0.06x900x1000/100

= 540 mm^2

Provide 12 mm ϕ bars @ 150 mm c/c at top & bottom.

Pt prov. = 0.075 %

Check for punching shear @ column

P= 2084 kN

Punching shear = $\frac{2084 \times 1.5 \times 10^3}{[(600+920)+(300+920)]\times 2\times 920}$ = 0.578 N/mm^2

Permissible punching shear stress = $0.25\sqrt{fck}$

= 1.48 N/mm^2

Hence pilecap is safe from punching shear under column

Check for punching shear @ pile

P= 1082.83 kN

Punching shear = $\frac{1082.83 \times 1.5 \times 10^3}{(500X3.1416x2x920)}$ = 0.562 N/mm^2

< 1.48 N/mm^2

Hence pilecap is safe from punching shear under pile.

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-06-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

Shear Check

Max. shear = 1082.83 kN

Shear at 'd/2' distance from face of the column

i.e. at (0.400 + 0.460 = 0.860 m) from centre of the column

= 1082.83-0.86 X 34.021

= 790.18 KN

$Tv = \frac{790.2 \times 1.5 \times 10^3}{900 \times 920} = 1.431$ N/mm^2 < 3.5 N/mm2 (for M25 grade of concrete)

(for Pt = 0.304 , Tc = 0.39 N/mm2)

Vus/d = (1.431-0.391076153656991)x = 935.93146 N/mm

Spacing of stirrups = $\frac{0.87 \times 500 \times 2 \times 113.09}{935.9314617}$

= 105.12 mm.

Provide 2-legged 12mm dia. links @ 100 mm c/c

Side face reinforcement

0.05% on each face

= 0.05x900x920/100 = 414 N/mm^2

Provide 10dia. bars@150mmC/C on all the four side faces

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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO: 150224		DATE: 30-05-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED: VJ	CHECKED: VJ	SHEET:

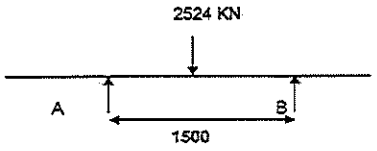
DESIGN OF PILECAP FOR 2 PILES

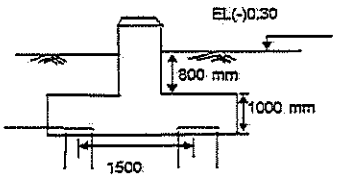
Load is applied at Centre of the Pile cap level

Support reactions

Governing Case : N: PC4

Paxial = 2524 Kn





Assume

Diameter of the pile	=	600	mm.
Length of the pile cap	=	2400	mm.
Width of pile cap	=	900	mm.
Depth of the pile cap	=	1000	mm. (Assumed)
Concrete Grade	=	35	N/mm^2
Steel Grade	=	500	N/mm^2

Height of soil above pile cap = 0.800 m

Max. Vertical compression = 2524.00 kN

Depth of the column/pedestal = 800 mm.

Width of the column/pedestal = 300 mm.

Selfweight of pile cap = 2.4 x0.9 x1x25

= 54.000 KN

Soil weight on pilecap = 0.8x (2.4 x0.9-0.8x0.3) x 18

= 27.65 KN

Total compression due to soil load + pile cap

(W) = 81.650 KN

= 81.65 /2.4 = 34.02083333 kN/m

Ra= 2524/2+81.65/2 = 1302.83 kN.

Rb= 2524/2+81.65/2 = 1302.83 kN.

BM @ face of the column = 1302.83x0.6 - 34.021x 1.05x1.05 / 2

= 762.95 kN-m.

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-05-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

Total Moment, M = 762.95 kN-m.

Depth of the pile cap as = 1000 mm

cover = 60 mm

Assume 16 mm ϕ bar & 12 mm ϕ stirrups

d' = 60+8+12 = 80 mm

d_{eff} = 920 mm

$$Mu/bD^2 = \frac{762.95 \times 1.5 \times 10^6}{900 \times 920^2}$$

$$= 1.5$$

For fck= 35 N/mm² & Fe 500 N/mm²

Pt reqd. = 0.38 % (SP 16 Table -3)

Ast reqd. 3146.4 mm²

Spacing required = 1000x490.88 /3146.4 = 156.012 mm

Provide 25 mm ϕ bars @ 155 mm c/c. Pt prov. = 0.382 %

Provide 7 no of 25 Y

Top reinforcement in long. Direction

Provide Min. Top reinforcement as (0.12/2)% = 0.06 %

= 0.06x900x1000/100 = 540 mm²

Provide 20 mm ϕ bars @ 155 mm c/c at top.

Pt prov. = 0.203 %

Provide 7 no of 20 Y

Distribution reinforcement

Provide Min. Top and Bottom reinforcement as (0.12/2)% =0.06%

= 0.06x900x1000/100

= 540 mm²

Provide 12 mm ϕ bars @ 150 mm c/c at top & bottom.

Pt prov. = 0.075 %

Check for punching shear @ column

P= 2524 kN

Punching shear = $\frac{2524 \times 1.5 \times 10^3}{[(800+920)+(300+920)]x2x920}$ = 0.7 N/mm²

Permissible punching shear stress = $0.25\sqrt{fck}$

= 1.48 N/mm²

Hence pilecap is safe from punching shear under column

Check for punching shear @ pile

P= 1302.83 kN

Punching shear = $\frac{1302.83 \times 1.5 \times 10^3}{(500X3.1416x2x920)}$ = 0.676 N/mm²

< 1.48 N/mm²

Hence pilecap is safe from punching shear under pile.

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BLOCK-2, MODEL SCHOOL ROAD
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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-05-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

Shear Check

Max. shear = 1302.83 kN

Shear at 'd/2' distance from face of the column

i.e. at (0.400 + 0.460 = 0.860 m) from centre of the column

= 1302.83-0.86 X 34.021

= 776.88 KN

$$Tv = \frac{776.9 \times 1.5 \times 10^3}{900 \times 920} = 1.407 \text{ N/mm}^2 < 3.5 \text{ N/mm2 (for M25 grade of concrete)}$$

(for Pt = 0.382 , Tc = 0.43 N/mm2)

Vus/d = (1.407-0.432256134343704)x = 877.26948 N/mm

$$\text{Spacing of stirrups} = \frac{0.87 \times 500 \times 2 \times 113.09}{877.2694791}$$

= 112.15 mm.

Provide 2-legged 12mm dia. links @ 100 mm c/c

Side face reinforcement

0.05% on each face

= 0.05x900x920/100 = 414 N/mm^2

Provide 10dia. bars@150mmC/C on all the four side faces

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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-06-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

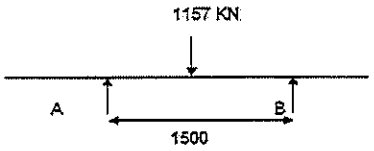
DESIGN OF PILECAP FOR 2 PILES

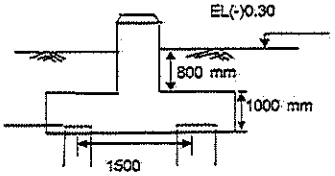
Load is applied at Centre of the Pile cap level

Support reactions

Governing Case : N: PC6

Paxial = 1157 Kn





Assume

Diameter of the pile	=	600	mm.
Length of the pile cap	=	2400	mm.
Width of pile cap	=	900	mm.
Depth of the pile cap	=	1000	mm. (Assumed)
Concrete Grade	=	35	N/mm^2
Steel Grade	=	500	N/mm^2

Height of soil above pile cap	=	0.800	m
Max. Vertical compression	=	1157.00	kN
Depth of the column/pedestal	=	600	mm.
Width of the column/pedestal	=	300	mm.

Selfweight of pile cap = 2.4 x0.9 x1x25

= 54.000 KN

Soil weight on pilecap = 0.8x (2.4 x0.9-0.6x0.3) x 18

= 28.51 KN

Total compression due to soil load + pile cap

(W) = 82.510 KN

= 82.51 /2.4 = 34.37916667 kN/m

Ra= 1157/2+82.51/2 = 619.76 kN.

Rb= 1157/2+82.51/2 = 619.76 kN.

BM @ face of the column = 619.76x0.6 - 34.379x 1.05x1.05 / 2

= 352.91 kN-m.

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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-06-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

Total Moment, M = 352.91 kN-m.

Depth of the pile cap as = 1000 mm

cover = 60 mm

Assume 16 mm ϕ bar & 12 mm ϕ stirrups

d' = 60+8+12 = 80 mm

d_{eff} = 920 mm

$$Mu/bD^2 = \frac{352.91 \times 1.5 \times 10^6}{900 \times 920^2}$$

$$= 0.69$$

For fck= 35 N/mm^2 & Fe 500 N/mm^2

Pt reqd. = 0.204 % (SP 16 Table -3)

Ast reqd. 1689.1 mm^2

Spacing required = 1000x314.16 /1689.2 = 185.99 mm

Provide 20 mm ϕ bars @ 175 mm c/c. Pt prov. = 0.217 %

Provide 6 no of 20 Y

Top reinforcement in long. Direction

Provide Min. Top reinforcement as (0.12/2)% = 0.06 %

= 0.06x900x1000/100 = 540 mm^2

Provide 16 mm ϕ bars @ 175 mm c/c at top.

Pt prov. = 0.115 %

Provide 6 no of 16 Y

Distribution reinforcement

Provide Min. Top and Bottom reinforcement as (0.12/2)% =0.06%

= 0.06x900x1000/100

= 540 mm^2

Provide 12 mm ϕ bars @ 150 mm c/c at top & bottom.

Pt prov. = 0.075 %

Check for punching shear @ column

P= 1157 kN

Punching shear = $\frac{1157 \times 1.5 \times 10^3}{[(600+920)+(300+920)]\times 2\times 920}$ = 0.344 N/mm^2

Permissible punching shear stress = $0.25\sqrt{fck}$

= 1.48 N/mm^2

Hence pilecap is safe from punching shear under column

Check for punching shear @ pile

P= 619.76 kN

Punching shear = $\frac{619.76 \times 1.5 \times 10^3}{(500X3.1416x2x920)}$ = 0.322 N/mm^2

< 1.48 N/mm^2

Hence pilecap is safe from punching shear under pile.

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DESIGN DEPARTMENT

PROJECT:	ANANTIYA (S+9)	DOCUMENT NO		DATE
		150224		30-05-2025
TITLE:	PILE CAP DESIGN -2 PILES	DESIGNED	CHECKED	SHEET
		VJ	VJ	

Shear Check

Max. shear = 619.76 kN

Shear at 'd/2' distance from face of the column

i.e. at (0.300 + 0.460 = 0.760 m) from centre of the column

= 619.76-0.76 X 34.379

= 593.63 KN

$$Tv = \frac{593.6 \times 1.5 \times 10^3}{900 \times 920} = 1.075 \text{ N/mm}^2 < 3.5 \text{ N/mm2 (for M25 grade of concrete)}$$

(for Pt = 0.217 , Tc = 0.34 N/mm2)

Vus/d = (1.075-0.336442104179582)x = 664.70211 N/mm

Spacing of stirrups = $\frac{0.87 \times 500 \times 2 \times 113.09}{664.7021062}$

= 148.02 mm.

Provide 2-legged 12mm dia. links @ 100 mm c/c

Side face reinforcement

0.05% on each face

= 0.05x900x920/100 = 414 N/mm^2

Provide 10dia. bars@150mmC/C on all the four side faces

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PROJECT NAME ANANTIYA (S+9)
STILT ROOF- BEAM DESIGN

BEAM ID B3

INPUT

Overall depth	=	600	mm	
Effective cover	=	30	mm	
Dia of bar	=	20	mm	
Effective depth (d)	=	560	mm	
Width of beam	=	230	mm	
Grade of concrete (fck)	=	35	N/mm^2	
Grade of steel (fy)	=	500	N/mm^2	
Length of the beam	=	5660	mm	
Moment (Mu_{bot}) @mid-span	=	128.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @ left supp	=	228.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @right supp	=	234.00	kN.m	(FROM STADD .Pro Result)
Shear Force (Vu)	=	127.00	KN	(FROM STADD .Pro Result)

REINFORCEMENT DETAILS

At Mid span

Mu/bd^2 = 1.775

Pt = 0.456 % Refer SP16- Table 3

Reqd Ast = 587.328 mm^2

Provided =	Dia of Bar		No
	20	mm	3
		mm	

Provided Ast = 942 mm^2

At left Supp

Mu/bd^2 = 3.16

Pt = 0.898 %

Reqd Ast = 1156.624 mm^2

Provided	Dia of Bar		No
1st Layer	20	mm	2
2nd Layer	20	mm	2

Provided As = 1256 mm^2

At right Supp

Mu/bd^2 = 3.24

Pt = 0.916 %

Reqd Ast = 1179.808 mm^2

Provided	Dia of Bar		No
	20	mm	2
	20	mm	2

Provided Ast = 1256 mm^2

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CHECK FOR SHEAR

τ_v = V_u/bd
= 0.986 N/mm²

Pt = 0.731 %

τ_c = 0.57 N/mm²
Refer IS456:2000 Table 19(PAGE 73)

$\tau_v > \tau_{c1}$ hence shear reinforcement required

V_{us} = $V_u-(\tau_c*b*d)$
= 53.584 KN

Assume 2legged stirrups of = 8 mm dia bar
Area of one bar = $\pi*d^2/4$
= 50.24
S_v = $A_{sv}*0.87*d*f_y/V_{us}$
= 456.7954613 mm

Adopt spacing of stirrups at 100mm c/c @supp and 200mm c/c @mid-span

CHECK FOR DEFLECTION

P_t = 0.731 %

$(L/d)_{basic}$ = 20

fs = 0.58*fy*(Ast reqd/Ast provided)

fs = 180.81223
Refer IS456:2000 fig 4(page 38)

Modification factor k = 1.3

$(L/d)_{max}$ = $k*(L/d)_{basic}$
$(L/d)_{max}$ = 26 mm

$(L/d)_{act}$ = 10.107143 mm

HENCE THE SECTION IS SAFE IN DEFLECTION

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Mobile: 9841259164

PROJECT NAME ANANTIYA (S+9)
STILT ROOF- BEAM DESIGN

BEAM ID B50

INPUT

Overall depth	=	500	mm	
Effective cover	=	30	mm	
Dia of bar	=	20	mm	
Effective depth (d)	=	460	mm	
Width of beam	=	230	mm	
Grade of concrete (fck)	=	35	N/mm^2	
Grade of steel (fy)	=	500	N/mm^2	
Length of the beam	=	4660	mm	
Moment (Mu_{bot}) @mid-span	=	118.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @ left supp	=	100.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @right supp	=	165.00	kN.m	(FROM STADD .Pro Result)
Shear Force (Vu)	=	159.00	KN	(FROM STADD .Pro Result)

REINFORCEMENT DETAILS

At Mid span

Mu/bd^2 = 2.425

Pt = 0.648 % Refer SP16- Table 3

Reqd Ast = 685.584 mm^2

Provided =	Dia of Bar		No	Dia of Bar		No
	20	mm	2	16		1

Provided Ast = 828.96 mm^2

At left Supp

Mu/bd^2 = 2.05

Pt = 0.527 %

Reqd Ast = 557.566 mm^2

Provided	Dia of Bar		No
1st Layer	20	mm	2
2nd Layer	16	mm	0

Provided Ast = 628 mm^2

$Pt_{Compression}$ = 0.000 %

Reqd Ast = 0 mm^2

Provided	Dia of Bar		No
	20	mm	0

Provided Ast = 0 mm^2

At right Supp

Mu/bd^2 = 3.39

$Pt_{Tension}$ = 0.963 %

Reqd Ast = 1018.854 mm^2

Provided	Dia of Bar		No
	20	mm	2
	16	mm	2

Provided Ast = 1029.92 mm^2

$Pt_{Compression}$ = 0.021 %

Reqd Ast = 22.218 mm^2

Provided	Dia of Bar		No
	20	mm	2

Provided Ast = 628 mm^2

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3-B, RAMANIYAM GAURAVV - 2
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Mobile: 9841269154

CHECK FOR SHEAR

τ_v = V_u/bd

= 1.503 N/mm²

Pt = 0.784 %

τ_c = 0.60 N/mm²

Refer IS456:2000 Table 19(PAGE 73)

$\tau_v > \tau_c$, hence shear reinforcement required

V_{us} = $V_u-(\tau_c*b*d)$

= 95.52 KN

Assume 2legged stirrups of = 8 mm dia bar

Area of one bar = $\pi*d^2/4$

= 50.24

S_v = $A_{sv}*0.87*d*f_y/V_{us}$

= 210.4904523 mm

Adopt spacing of stirrups at 100mm c/c @supp and 200mm c/c @mid-span

CHECK FOR DEFLECTION

P_t = 0.784 %

$(L/d)_{basic}$ = 20

fs = 0.58*fy*(Ast reqd/Ast provided)

fs = 239.84192

Refer IS456:2000 fig 4(page 38)

Modification factor k = 1.05

$(L/d)_{max}$ = $k*(L/d)_{basic}$

$(L/d)_{max}$ = 21 mm

$(L/d)_{act}$ = 10.130435 mm

HENCE THE SECTION IS SAFE IN DEFLECTION

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PROJECT NAME ANANTIYA (S+9)
STILT ROOF- BEAM DESIGN

BEAM ID B52

INPUT

Overall depth	=	500	mm	
Effective cover	=	30	mm	
Dia of bar	=	20	mm	
Effective depth (d)	=	460	mm	
Width of beam	=	230	mm	
Grade of concrete (fck)	=	35	N/mm^2	
Grade of steel (fy)	=	500	N/mm^2	
Length of the beam	=	4560	mm	
Moment (Mu_{bot}) @mid-span	=	95.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @ left supp	=	50.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @right supp	=	50.00	kN.m	(FROM STADD .Pro Result)
Shear Force (Vu)	=	83.00	KN	(FROM STADD .Pro Result)

REINFORCEMENT DETAILS

At Mid span

Mu/bd^2 = 1.952

Pt = 0.500 % Refer SP16- Table 3

Reqd Ast = 529 mm^2

Provided =	Dia of Bar		No
	20	mm	2

Provided Ast = 628 mm^2

At left Supp

Mu/bd^2 = 1.03

Pt = 0.255 %

Reqd Ast = 269.79 mm^2

Provided	Dia of Bar		No
1st Layer	16	mm	2
2nd Layer	0	mm	0

Provided Ast = 401.92 mm^2

At right Supp

Mu/bd^2 = 1.03

$Pt_{Tension}$ = 0.255 %

Reqd Ast = 269.79 mm^2

Provided	Dia of Bar		No
	16	mm	2
	20	mm	0

Provided Ast = 401.92 mm^2

$Pt_{Compression}$ = 0.187 %

Reqd Ast = 197.846 mm^2

Provided	Dia of Bar		No
	20	mm	0

Provided Ast = 0 mm^2

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BLOCK-2, MODEL SCHOOL ROAD
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Mobile: 9841269154

CHECK FOR SHEAR

τ_v = V_u/bd

= 0.784 N/mm²

Pt = 0.594 %

τ_c = 0.57 N/mm²

Refer IS456:2000 Table 19(PAGE 73)

$\tau_v > \tau_c$, hence shear reinforcement required

V_{us} = $V_u-(\tau_c*b*d)$

= 22.694 KN

Assume 2legged stirrups of = 8 mm dia bar

Area of one bar = $\pi*d^2/4$

= 50.24

S_v = $A_{sv}*0.87*d*f_y/V_{us}$

= 885.9631621 mm

Adopt spacing of stirrups at 100mm c/c @supp and 200mm c/c @mid-span

CHECK FOR DEFLECTION

P_t = 0.594 %

$(L/d)_{basic}$ = 20

fs = 0.58*fy*(Ast reqd/Ast provided)

fs = 244.28344

Refer IS456:2000 fig 4(page 38)

Modification factor k = 1.1

$(L/d)_{max}$ = $k*(L/d)_{basic}$

$(L/d)_{max}$ = 22 mm

$(L/d)_{act}$ = 9.9130435 mm

HENCE THE SECTION IS SAFE IN DEFLECTION

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

PROJECT NAME ANANTIYA (S+9)
STILT ROOF- BEAM DESIGN

BEAM ID B71

INPUT

Overall depth	=	500	mm	
Effective cover	=	30	mm	
Dia of bar	=	20	mm	
Effective depth (d)	=	460	mm	
Width of beam	=	230	mm	
Grade of concrete (fck)	=	35	N/mm²	
Grade of steel (fy)	=	500	N/mm²	
Length of the beam	=	4970	mm	
Moment (Mu_{bot}) @mid-span	=	140.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @ left supp	=	75.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @right supp	=	58.00	kN.m	(FROM STADD .Pro Result)
Shear Force (Vu)	=	97.00	KN	(FROM STADD .Pro Result)

REINFORCEMENT DETAILS

At Mid span

Mu/bd^2 = 2.877

Pt = 0.794 % Refer SP16- Table 3

Reqd Ast = 840.052 mm²

Provided =	Dia of Bar		No
	20	mm	3
		mm	

Provided Ast = 942 mm²

At left Supp

Mu/bd^2 = 1.54

Pt = 0.527 %

Reqd Ast = 557.566 mm²

Provided	Dia of Bar		No
1st Layer	20	mm	2
2nd Layer	16	mm	0

Provided As = 628 mm²

At right Supp

Mu/bd^2 = 1.19

Pt = 0.293 %

Reqd Ast = 309.994 mm²

Provided	Dia of Bar		No
	20	mm	2
	16	mm	0

Provided Ast = 628 mm²

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CHECK FOR SHEAR

τ_v	=	V_u/bd	
	=	0.917	N/mm²
Pt	=	0.890	%
τ_c	=	0.64	N/mm²

Refer IS456:2000 Table 19(PAGE 73)

$\tau_v > \tau_c$, hence shear reinforcement required

V_{us}	=	$V_u-(\tau_c*b*d)$	
	=	29.288	KN
Assume 2legged stirrups of	=	8	mm dia bar
Area of one bar	=	$\pi*d^2/4$	
	=	50.24	
s_v	=	$A_{sv}*0.87*d*f_y/V_{us}$	
	=	686.4944004	mm

Adopt spacing of stirrups at 100mm c/c @supp and 200mm c/c @mid-span

CHECK FOR DEFLECTION

P_t	=	0.890	%
$(L/d)_{basic}$	=	20	
fs	=	0.58*fy*(Ast reqd/Ast provided)	
fs	=	258.61473	

Refer IS456:2000 fig 4(page 38)

Modification factor k	=	1	
$(L/d)_{max}$	=	$k*(L/d)_{basic}$	
$(L/d)_{max}$	=	20	mm
$(L/d)_{act}$	=	10.804348	mm

HENCE THE SECTION IS SAFE IN DEFLECTION

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PROJECT NAME ANANTIYA (S+9)
STILT ROOF- BEAM DESIGN

BEAM ID B76

INPUT

Overall depth	=	600	mm	
Effective cover	=	30	mm	
Dia of bar	=	20	mm	
Effective depth (d)	=	560	mm	
Width of beam	=	230	mm	
Grade of concrete (fck)	=	35	N/mm^2	
Grade of steel (fy)	=	500	N/mm^2	
Length of the beam	=	4980	mm	
Moment (Mu_{bot}) @mid-span	=	71.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @ left supp	=	152.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @right supp	=	208.00	kN.m	(FROM STADD .Pro Result)
Shear Force (Vu)	=	131.00	KN .	(FROM STADD .Pro Result)

REINFORCEMENT DETAILS

At Mid span

Mu/bd^2 = 0.984

Pt = 0.242 % Refer SP16- Table 3

Reqd Ast = 311.696 mm^2

Provided =	Dia of Bar		No
	20	mm	3
		mm	

Provided Ast = 942 mm^2

At left Supp

Mu/bd^2 = 2.11

Pt = 0.542 %

Reqd Ast = 698.096 mm^2

Provided	Dia of Bar		No
1st Layer	20	mm	3
2nd Layer	20	mm	2

Provided As = 1570 mm^2

At right Supp

Mu/bd^2 = 2.88

Pt = 0.794 %

Reqd Ast = 1022.672 mm^2

Provided	Dia of Bar		No
	20	mm	3
	20	mm	2

Provided Ast = 1570 mm^2

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BLOCK-2, MODEL SCHOOL ROAD
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CHECK FOR SHEAR

τ_v	=	V_u/bd	
	=	1.017	N/mm²
Pt	=	0.731	%
τ_c	=	0.57	N/mm²

Refer IS456:2000 Table 19(PAGE 73)

$\tau_v > \tau_c$, hence shear reinforcement required

V_{us}	=	$V_u-(\tau_c*b*d)$	
	=	57.584	KN
Assume 2legged stirrups of	=	8	mm dia bar
Area of one bar	=	$\pi*d^2/4$	
	=	50.24	
S_v	=	$A_{sv}*0.87*d*f_y/V_{us}$	
	=	425.0647402	mm

Adopt spacing of stirrups at 100mm c/c @supp and 200mm c/c @mid-span

CHECK FOR DEFLECTION

P_t	=	0.731	%
$(L/d)_{basic}$	=	20	
fs	=	0.58*fy*(Ast reqd/Ast provided)	
fs	=	95.957367	

Refer IS456:2000 fig 4(page 38)

Modification factor k	=	1.6	
$(L/d)_{max}$	=	$k*(L/d)_{basic}$	
$(L/d)_{max}$	=	32	mm
$(L/d)_{act}$	=	8.8928571	mm

HENCE THE SECTION IS SAFE IN DEFLECTION

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

Project name:ANANTIYA (S+9)

ROOF SLAB DESIGN

FLOOR:Stilt Floor Roof

LOAD CALCULATION

Self weight of slab-0.125*25 =	3.125	KN/m^2
Live load =	2	KN/m^2
Floor Finish=	1.2	KN/m^2
Total load =	6.325	KN/m^2
Factored Wu Load=	9.4875	kN/m^2

Slab no-S1 Condition- Three Edge Discontinous(One Long Edge Continous)

Grade of concrete fck=	35	N/mm^2	Depth=	125	mm
Grade of steel fy=	500	N/mm^2	Effective depth=	100	mm

Ly= 3.68 Ly/Lx= 1.19

Lx= 3.08

$Wu*Lx^2$ = 90.00222

Vu= 14.61075 KN

Span	Moment Coeff	Mu	Mu/bd^2	Pt	Ast required	Min Ast	Dia of bar	Spacing	Ast provided
		Knm	N/mm^2		mm^2	mm^2	mm	mm	mm^2
Shorter -ve	0.071	6.390	0.639	0.179	179	150	10	200	392.5
+ve	0.053	4.770	0.477	0.118	118	150	10	200	392.5
Longer -ve	0.000	0.000	0.000	0.000	0	150	10	200	392.5
+ve	0.043	3.870	0.387	0.106	106	150	10	200	392.5

Check for Depth

Mu = $0.138*fck*b*d^2$ 9

6.39016 = 0.138X25X1000Xd^2

= 36.37326 < 100

DEPTH IS OK

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
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Check for Shear

t_{ve} = Vu/b*d

= 14.61075/1000X100

t_{ve} = 0.146

Pt = 0.393

t_c = 0.36 N/mm^2 Refer Table-19 IS:456 page 73

SLAB SAFE IN SHEAR

Check for deflection

(L/d)max = (L/d)basic *Kc* Kt* Kf

fs = 0.58*fy*(Area of cross section of steel required/Area of cross section of steel provided)

fs	=	132.25 N/mm^2	
Pt	=	0.393	
Kt	=	1.8	Refer Fig .4, IS:456
(L/d)basic	=	20	Ref. cl. 23.2.1, IS:456
(L/d)max	=	1.8 x20	
	=	36	
(L/d)provide	=	30.8 <	36

SLAB SAFE IN DEFLECTION

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

Project name:ANANTIYA (S+9)

ROOF SLAB DESIGN

FLOOR:Stilt Floor Roof

LOAD CALCULATION

Self weight of slab-0.150*25 =	3.750	KN/m^2
Live load =	2	KN/m^2
Floor Finish=	1.2	KN/m^2
Total load =	6.950	KN/m^2
Factored Wu Load=	10.4250	kN/m^2

Slab no-S31 Condition- Three Edge Discontinous(One Short Edge Continous)

Grade of concrete fck=	35 N/mm^2	Depth=	150 mm
Grade of steel fy=	500 N/mm^2	Effective depth=	120 mm

Ly= 3.56 Ly/Lx= 1.15

Lx= 3.09

Wu*Lx^2 = 99.53894

Vu= 16.10663 KN

Span	Moment Coeff	Mu	Mu/bd^2	Pt	Ast required	Min Ast	Dia of bar	Spacing	Ast provided
		Knm	N/mm^2		mm^2	mm^2	mm	mm	mm^2
Shorter -ve	0.000	0.000	0.000	0.000	0	180	10	200	392.5
+ve	0.059	5.873	0.408	0.154	184.8	180	10	200	392.5
Longer -ve	0.057	5.674	0.394	0.130	156	180	10	200	392.5
+ve	0.043	4.280	0.297	0.094	112.8	180	10	200	392.5

Check for Depth

Mu = 0.138*fck*b*d^2

5.8728 = 0.138X25X1000Xd^2

= 34.86976 < 120

DEPTH IS OK



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BLOCK-2, MODEL SCHOOL ROAD
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Check for Shear

t_{ve} = Vu/b*d

= 16.106625/1000X120

t_{ve} = 0.134

Pt = 0.327

t_c = 0.36 N/mm^2 Refer Table-19 IS:456 page 73

SLAB SAFE IN SHEAR

Check for deflection

(L/d)max = (L/d)basic *Kc* Kt* Kf

fs = 0.58*fy*(Area of cross section of steel required/Area of cross section of steel provided)

fs	=	136.54 N/mm^2	
Pt	=	0.327	
Kt	=	1.8	Refer Fig .4, IS:456
(L/d)basic	=	20	Ref. cl. 23.2.1, IS:456
(L/d)max	=	1.8 x20	
	=	36	
(L/d)provide	=	25.75 <	36

SLAB SAFE IN DEFLECTION

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

Project name:ANANTIYA (S+9)

ROOF SLAB DESIGN

FLOOR:5th Floor Roof

LOAD CALCULATION

Self weight of slab-0.150*25 =	3.750	KN/m^2
Live load =	2	KN/m^2
Floor Finish=	1.2	KN/m^2
Total load =	6.950	KN/m^2
Factored Wu Load=	10.4250	kN/m^2

Slab no-S33 Condition- One Short Edge Discontinous

Grade of concrete fck=	35 N/mm^2	Depth=	150 mm
Grade of steel fy=	500 N/mm^2	Effective depth=	120 mm

Ly= 5.8 Ly/Lx= 1.73

Lx= 3.35

$Wu*Lx^2$ = 116.9946

Vu= 17.46188 KN

Span	Moment Coeff	Mu	Mu/bd^2	Pt	Ast required	Min Ast	Dia of bar	Spacing	Ast provided
		Knm	N/mm^2		mm^2	mm^2	mm	mm	mm^2
Shorter -ve	0.064	7.488	0.520	0.130	156	180	10	200	392.5
+ve	0.048	5.616	0.390	0.094	112.8	180	10	200	392.5
Longer -ve	0.037	4.329	0.301	0.070	84	180	10	200	392.5
+ve	0.028	3.276	0.227	0.070	84	180	10	200	392.5

Check for Depth

Mu = $0.138*fck*b*d^2$

7.48765 = 0.138X25X1000Xd^2

= 39.37307 < 120

DEPTH IS OK

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

Check for Shear

$t_{ve} = Vu/b*d$

= 17.461875/1000X120

t_{ve} = 0.146

Pt = 0.327

t_c = 0.36 N/mm^2 Refer Table-19 IS:456 page 73

SLAB SAFE IN SHEAR

Check for deflection

(L/d)max = (L/d)basic *Kc* Kt* Kf

fs = 0.58*fy*(Area of cross section of steel required/Area of cross section of steel provided)

fs	=	115.26 N/mm^2	
Pt	=	0.327	
Kt	=	1.6	Refer Fig .4, IS:456
(L/d)basic	=	20	Ref. cl. 23.2.1, IS:456
(L/d)max	=	1.6 x20	
	=	32	
(L/d)provide	=	27.91667 <	32

SLAB SAFE IN DEFLECTION

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841283154

Project name:ANANTIYA (S+9)

ROOF SLAB DESIGN

FLOOR:Stilt Floor Roof

LOAD CALCULATION

Self weight of slab-0.150*25 =	3.750	KN/m^2
Live load =	2	KN/m^2
Floor Finish=	1.2	KN/m^2
Total load =	6.950	KN/m^2
Factored Wu Load=	10.4250	kN/m^2

Slab no-S34 Condition- Three Edge Discontinous(One Short Edge Continous)

Grade of concrete fck=	35 N/mm^2	Depth=	150 mm
Grade of steel fy=	500 N/mm^2	Effective depth=	120 mm

Ly= 6.33 Ly/Lx= 1.57

Lx= 4.04

$Wu*Lx^2$ = 170.1527

Vu= 21.0585 KN

Span	Moment Coeff	Mu	Mu/bd^2	Pt	Ast required	Min Ast	Dia of bar	Spacing	Ast provided
		Knm	N/mm^2		mm^2	mm^2	mm	mm	mm^2
Shorter -ve	0.000	0.000	0.000	0.000	0	180	10	150	523.333
+ve	0.087	14.803	1.028	0.252	302.4	180	10	150	523.333
Longer -ve	0.000	0.000	0.000	0.000	0	180	10	200	392.5
+ve	0.056	9.529	0.662	0.167	200.4	180	10	200	392.5

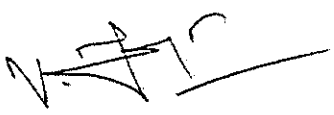
Check for Depth

Mu = $0.138*fck*b*d^2$

14.8033 = 0.138X25X1000Xd^2

= 55.3612 < 120

DEPTH IS OK



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BLOCK-2, MODEL SCHOOL ROAD
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Check for Shear

$t_{ve} = Vu/b*d$

= 21.0585/1000X120

t_{ve} = 0.175

Pt = 0.436

t_c = 0.36 N/mm^2 Refer Table-19 IS:456 page 73

SLAB SAFE IN SHEAR

Check for deflection

(L/d)max = (L/d)basic *Kc* Kt* Kf

fs = 0.58*fy*(Area of cross section of steel required/Area of cross section of steel provided)

fs	=	167.57 N/mm^2	
Pt	=	0.436	
Kt	=	1.7	Refer Fig .4, IS:456
(L/d)basic	=	20	Ref. cl. 23.2.1, IS:456
(L/d)max	=	1.7 x20	
	=	34	
(L/d)provide	=	33.66667 <	34

SLAB SAFE IN DEFLECTION

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841259154

Project name:ANANTIYA (S+9)

ROOF SLAB DESIGN

FLOOR:Stilt Floor Roof

LOAD CALCULATION

Self weight of slab-0.125*25 =	3.125	KN/m^2
Live load =	2	KN/m^2
Floor Finish=	1.2	KN/m^2
Total load =	6.325	KN/m^2
Factored Wu Load=	9.4875	kN/m^2

Slab no-S37 Condition- Three Edge Discontinous(One Long Edge Continous)

Grade of concrete fck=	35 N/mm^2	Depth=	150 mm
Grade of steel fy=	500 N/mm^2	Effective depth=	120 mm

Ly= 3.21 Ly/Lx= 1.11

Lx= 2.9

Wu*Lx^2 = 79.78988

Vu= 13.75688 KN

Span	Moment Coeff	Mu	Mu/bd^2	Pt	Ast required	Min Ast	Dia of bar	Spacing	Ast provided
		Knm	N/mm^2		mm^2	mm^2	mm	mm	mm^2
Shorter -ve	0.071	5.665	0.393	0.094	112.8	180	10	200	392.5
+ve	0.053	4.229	0.294	0.070	84	180	10	200	392.5
Longer -ve	0.000	0.000	0.000	0.000	0	180	10	200	392.5
+ve	0.043	3.431	0.238	0.070	84	180	10	200	392.5

Check for Depth

Mu = 0.138*fck*b*d^2

5.66508 = 0.138X25X1000Xd^2

= 34.24755 < 120

DEPTH IS OK

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

Check for Shear

t_{ve} = Vu/b*d

= 13.756875/1000X120

t_{ve} = 0.115

Pt = 0.327

t_c = 0.36 N/mm^2 Refer Table-19 IS:456 page 73

SLAB SAFE IN SHEAR

Check for deflection

(L/d)max = (L/d)basic *Kc* Kt* Kf

fs = 0.58*fy*(Area of cross section of steel required/Area of cross section of steel provided)

fs	=	83.34 N/mm^2	
Pt	=	0.327	
Kt	=	1.8	Refer Fig .4, IS:456
(L/d)basic	=	20	Ref. cl. 23.2.1, IS:456
(L/d)max	=	1.8 x20	
	=	36	
(L/d)provide	=	24.16667 <	36

SLAB SAFE IN DEFLECTION

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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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*                                                *
*          STAAD.Pro 2023                        *
*          Version  23.00.03.25                  *
*          Proprietary Program of                *
*          Bentley Systems, Inc.                 *
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```
    1. STAAD SPACE
INPUT FILE: F:\Ramaniyam\Ramaniyam stadd\RRE STAAD 2025\Raheja\PWD\Raheja PWD Final.STD
    2. START JOB INFORMATION
    3. ENGINEER DATE 25-APR-25
    4. *PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A
    5. *STILT FLOOR + 9 FLOORS (HEIGHT - 30.00M), RESIDENTIAL BUILDING WITH 30
    6. *DWELLING UNITS AT PLOT NO.161, OLD DOOR NO.49, NEW DOOR NO.107, GANDHI
    7. *NAGAR 1ST MAIN ROAD, ADYAR, CHENNAI - 600020. COMPRISED IN OLD S.NO: 49/1
    8. *PART, R.S.NO.40 AS PER DOCUMENT AND T.S.NO.40 AS PER PATTA, BLOCK NO.1 OF
    9. *URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI
   10. *CORPORATION.
   11. END JOB INFORMATION
   12. INPUT WIDTH 79
   13. UNIT METER KN
   14. JOINT COORDINATES
   15. 1 0 0 0; 2 3.08 0 0; 3 10.11 0 0; 4 13.33 0 0; 5 -0.35 0 5.64; 6 3.08 0 5.64
   16. 7 6.66 0 5.64; 8 9.32 0 5.64; 9 13.33 0 5.64; 10 9.32 0 9.58; 11 13.33 0 9.58
   17. 12 -0.35 0 10.92; 13 3.08 0 10.92; 14 6.35 0 11.87; 15 7.86 0 13.03
   18. 16 9.92 0 13.03; 17 13.33 0 13.3; 18 -1.22 0 14.49; 19 1.66 0 14.49
   19. 20 7.86 0 14.99; 21 9.92 0 14.99; 22 13.56 0 14.99; 23 -0.11 0 15.99
   20. 24 5.35 0 15.99; 25 7.49 0 17.68; 26 9.74 0 17.68; 27 13.56 0 17.68
   21. 28 -1.66 0 19.02; 29 -0.24 0 19.02; 30 5.35 0 19.02; 31 7.49 0 20.26
   22. 32 9.74 0 20.26; 33 13.56 0 20.26; 34 -1.91 0 22.34; 35 1.9 0 22.34
   23. 36 -2.21 0 24.15; 38 13.56 0 24.45; 40 -2.46 0 27.54; 43 13.56 0 27.54
   24. 44 0 1.2 0; 45 3.08 1.2 0; 46 10.11 1.2 0; 47 13.33 1.2 0; 48 -0.35 1.2 5.64
   25. 49 3.08 1.2 5.64; 50 6.66 1.2 5.64; 51 9.32 1.2 5.64; 52 13.33 1.2 5.64
   26. 53 9.32 1.2 9.58; 54 13.33 1.2 9.58; 55 -0.35 1.2 10.92; 56 3.08 1.2 10.92
   27. 57 6.35 1.2 11.87; 58 7.86 1.2 13.03; 59 9.92 1.2 13.03; 60 13.33 1.2 13.3
   28. 61 -1.22 1.2 14.49; 62 1.66 1.2 14.49; 63 7.86 1.2 14.99; 64 9.92 1.2 14.99
   29. 65 13.56 1.2 14.99; 66 -0.11 1.2 15.99; 67 5.35 1.2 15.99; 68 7.49 1.2 17.68
   30. 69 9.74 1.2 17.68; 70 13.56 1.2 17.68; 71 -1.66 1.2 19.02; 72 -0.24 1.2 19.02
   31. 73 5.35 1.2 19.02; 74 7.49 1.2 20.26; 75 9.74 1.2 20.26; 76 13.56 1.2 20.26
   32. 77 -1.91 1.2 22.34; 78 1.9 1.2 22.34; 79 -2.21 1.2 24.15; 80 8.6 1.2 24.45
   33. 81 13.56 1.2 24.45; 82 5.35 1.2 25.16; 83 -2.46 1.2 27.54; 86 13.56 1.2 27.54
   34. 87 0 4.3 0; 88 3.08 4.3 0; 89 10.11 4.3 0; 90 13.33 4.3 0; 91 -0.35 4.3 5.64
   35. 92 3.08 4.3 5.64; 93 6.66 4.3 5.64; 94 9.32 4.3 5.64; 95 13.33 4.3 5.64
   36. 96 9.32 4.3 9.58; 97 13.33 4.3 9.58; 98 -0.35 4.3 10.92; 99 3.08 4.3 10.92
   37. 100 6.35 4.3 11.87; 101 7.86 4.3 13.03; 102 9.92 4.3 13.03; 103 13.33 4.3 13.3
   38. 104 -1.22 4.3 14.49; 105 1.66 4.3 14.49; 106 7.86 4.3 14.99
```

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

39. 107 9.92 4.3 14.99; 108 13.56 4.3 14.99; 109 -0.11 4.3 15.99
40. 110 5.35 4.3 15.99; 111 7.49 4.3 17.68; 112 9.74 4.3 17.68
41. 113 13.56 4.3 17.68; 114 -1.66 4.3 19.02; 115 -0.24 4.3 19.02
42. 116 5.35 4.3 19.02; 117 7.49 4.3 20.26; 118 9.74 4.3 20.26
43. 119 13.56 4.3 20.26; 120 -1.91 4.3 22.34; 121 1.9 4.3 22.34
44. 122 -2.21 4.3 24.15; 123 8.6 4.3 24.45; 124 13.56 4.3 24.45
45. 125 5.35 4.3 25.16; 126 -2.46 4.3 27.54; 127 5.35 4.3 27.54
46. 128 10.2 4.3 27.54; 129 13.56 4.3 27.54; 132 5.35 1.2 27.54
47. 134 10.2 1.2 27.54; 135 8.6 1.2 27.54; 136 5.35 1.2 24.45; 137 5.35 1.2 22.34
48. 138 1.9 1.2 27.54; 139 1.9 1.2 24.15; 140 5.35 1.2 24.15; 141 -2.46 1.2 24.15
49. 142 -1.91 1.2 24.15; 143 5.35 1.2 20.26; 144 -1.91 1.2 19.02
50. 145 0.4 1.2 22.34; 146 0.4 1.2 19.02; 147 2.83 1.2 22.34; 148 2.83 1.2 19.02
51. 149 -0.11 1.2 19.02; 150 4.15 1.2 19.02; 151 4.15 1.2 15.99
52. 152 -1.66 1.2 15.99; 153 -1.66 1.2 16.9; 154 -0.11 1.2 16.9
53. 155 9.74 1.2 14.99; 156 7.86 1.2 17.68; 157 7.86 1.2 14.49; 158 5.35 1.2 14.49
54. 159 -1.22 1.2 15.99; 160 4.59 1.2 15.99; 161 4.59 1.2 14.49
55. 162 3.84 1.2 15.99; 163 3.84 1.2 14.49; 164 1.66 1.2 10.92
56. 165 13.33 1.2 14.99; 166 10.11 1.2 5.64; 167 6.66 1.2 0
57. 168 -2.98023E-08 1.2 5.64; 169 9.32 1.2 13.03; 170 -0.35 1.2 14.49
58. 171 3.08 1.2 14.49; 172 9.92 1.2 13.3; 173 9.32 1.2 11.87; 174 3.08 1.2 11.87
59. 175 6.35 1.2 5.64; 176 10.76 1.2 14.99; 177 10.76 1.2 14.2; 178 9.92 1.2 14.2
60. 179 8.6 1.2 20.26; 180 -0.24 4.3 0; 181 -0.24 4.3 5.64; 182 13.56 4.3 0
61. 183 13.56 4.3 5.64; 184 6.66 4.3 0; 185 10.11 4.3 5.64; 186 -0.24 4.3 3.86
62. 187 3.08 4.3 3.86; 188 6.66 4.3 3.86; 189 10.11 4.3 3.86; 190 13.56 4.3 3.86
63. 191 1.84 4.3 5.64; 192 1.84 4.3 3.86; 193 4.16 4.3 5.64; 194 4.16 4.3 3.86
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65. 199 13.56 4.3 9.58; 200 6.35 4.3 5.64; 201 6.35 4.3 9.58; 202 12.39 4.3 9.58
66. 203 12.39 4.3 5.64; 204 6.35 4.3 7.2; 205 9.32 4.3 7.2; 206 7.76 4.3 7.2
67. 207 7.76 4.3 5.64; 208 6.35 4.3 10.92; 209 3.08 4.3 7.2; 210 4.66 4.3 7.2
68. 211 4.66 4.3 5.64; 212 -0.76 4.3 5.64; 213 -1.11 4.3 10.92; 214 -1.11 4.3 9.16
69. 215 3.08 4.3 9.16; 216 -0.2 4.3 9.16; 217 -0.2 4.3 5.64; 218 0.57 4.3 10.92
70. 219 0.57 4.3 9.16; 220 1.66 4.3 10.92; 221 7.86 4.3 14.49; 222 -1.22 4.3 10.92
71. 223 6.35 4.3 14.49; 224 9.92 4.3 13.3; 225 13.56 4.3 13.3; 226 12.02 4.3 24.45
72. 227 12.02 4.3 20.26; 228 12.02 4.3 22.56; 229 13.56 4.3 22.56
73. 230 10.33 4.3 27.54; 231 10.33 4.3 24.45; 232 8.6 4.3 27.54; 233 1.9 4.3 19.02
74. 234 0.56 4.3 22.34; 235 0.559999 4.3 27.54; 236 0.559999 4.3 25.16
75. 237 3.68 4.3 27.54; 238 3.68 4.3 25.16; 240 0.56 4.3 24.15
76. 241 -1.91 4.3 24.15; 242 -1.91 4.3 19.02; 243 -0.11 4.3 19.02
77. 244 -1.66 4.3 15.99; 245 -1.22 4.3 15.99; 246 8.6 4.3 23.69
78. 247 5.35 4.3 23.69; 248 5.35 4.3 20.26; 249 9.74 4.3 14.99
79. 250 4.125 4.3 19.02; 251 4.125 4.3 15.99; 252 -1.66 4.3 16.9
80. 253 -0.11 4.3 16.9; 254 4.59 4.3 15.99; 255 4.59 4.3 14.49; 256 3.84 4.3 15.99
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82. 261 10.85 4.3 9.58; 262 10.76 4.3 14.99; 263 10.76 4.3 14.2; 264 9.92 4.3 14.2
83. 265 6.35 1.2 14.49; 266 3.84 1.2 15.24; 267 4.59 1.2 15.24
84. 268 -2.21 4.3 24.72; 269 -2.46 4.3 24.72; 270 0 7.4 0; 271 3.08 7.4 0
85. 272 10.11 7.4 0; 273 13.33 7.4 0; 274 -0.35 7.4 5.64; 275 3.08 7.4 5.64
86. 276 6.66 7.4 5.64; 277 9.32 7.4 5.64; 278 13.33 7.4 5.64; 279 9.32 7.4 9.58
87. 280 13.33 7.4 9.58; 281 -0.35 7.4 10.92; 282 3.08 7.4 10.92
88. 283 6.35 7.4 11.87; 284 7.86 7.4 13.03; 285 9.92 7.4 13.03; 286 13.33 7.4 13.3
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91. 293 5.35 7.4 15.99; 294 7.49 7.4 17.68; 295 9.74 7.4 17.68
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94. 302 13.56 7.4 20.26; 303 -1.91 7.4 22.34; 304 1.9 7.4 22.34

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841[illegible]154

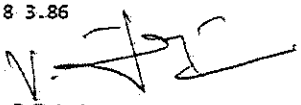
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 98. 315 13.56 7.4 0; 316 13.56 7.4 5.64; 317 6.66 7.4 0; 318 10.11 7.4 5.64
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100. 323 13.56 7.4 3.86; 324 1.84 7.4 5.64; 325 1.84 7.4 3.86; 326 4.16 7.4 5.64
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108. 355 -1.22 7.4 10.92; 356 6.35 7.4 14.49; 357 9.92 7.4 13.3; 358 13.56 7.4 13.3
109. 359 12.02 7.4 24.45; 360 12.02 7.4 20.26; 361 12.02 7.4 22.56
110. 362 13.56 7.4 22.56; 363 10.33 7.4 27.54; 364 10.33 7.4 24.45
111. 365 8.6 7.4 27.54; 366 1.9 7.4 19.02; 367 0.56 7.4 22.34
112. 368 0.559999 7.4 27.54; 369 0.559999 7.4 25.16; 370 3.68 7.4 27.54
113. 371 3.68 7.4 25.16; 372 0.56 7.4 24.15; 373 -1.91 7.4 24.15
114. 374 -1.91 7.4 19.02; 375 -0.11 7.4 19.02; 376 -1.66 7.4 15.99
115. 377 -1.22 7.4 15.99; 378 8.6 7.4 23.69; 379 5.35 7.4 23.69; 380 5.35 7.4 20.26
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117. 384 -1.66 7.4 16.9; 385 -0.11 7.4 16.9; 386 4.59 7.4 15.99; 387 4.59 7.4 14.49
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119. 392 10.85 7.4 13.3; 393 10.85 7.4 9.58; 394 10.76 7.4 14.99
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121. 398 -2.46 7.4 24.72; 399 0 10.5 0; 400 3.08 10.5 0; 401 10.11 10.5 0
122. 402 13.33 10.5 0; 403 -0.35 10.5 5.64; 404 3.08 10.5 5.64; 405 6.66 10.5 5.64
123. 406 9.32 10.5 5.64; 407 13.33 10.5 5.64; 408 9.32 10.5 9.58
124. 409 13.33 10.5 9.58; 410 -0.35 10.5 10.92; 411 3.08 10.5 10.92
125. 412 6.35 10.5 11.87; 413 7.86 10.5 13.03; 414 9.92 10.5 13.03
126. 415 13.33 10.5 13.3; 416 -1.22 10.5 14.49; 417 1.66 10.5 14.49
127. 418 7.86 10.5 14.99; 419 9.92 10.5 14.99; 420 13.56 10.5 14.99
128. 421 -0.11 10.5 15.99; 422 5.35 10.5 15.99; 423 7.49 10.5 17.68
129. 424 9.74 10.5 17.68; 425 13.56 10.5 17.68; 426 -1.66 10.5 19.02
130. 427 -0.24 10.5 19.02; 428 5.35 10.5 19.02; 429 7.49 10.5 20.26
131. 430 9.74 10.5 20.26; 431 13.56 10.5 20.26; 432 -1.91 10.5 22.34
132. 433 1.9 10.5 22.34; 434 -2.21 10.5 24.15; 435 8.6 10.5 24.45
133. 436 13.56 10.5 24.45; 437 5.35 10.5 25.16; 438 -2.46 10.5 27.54
134. 439 5.35 10.5 27.54; 440 10.2 10.5 27.54; 441 13.56 10.5 27.54
135. 442 -0.24 10.5 0; 443 -0.24 10.5 5.64; 444 13.56 10.5 0; 445 13.56 10.5 5.64
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137. 450 6.66 10.5 3.86; 451 10.11 10.5 3.86; 452 13.56 10.5 3.86
138. 453 1.84 10.5 5.64; 454 1.84 10.5 3.86; 455 4.16 10.5 5.64; 456 4.16 10.5 3.86
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145. 477 3.08 10.5 9.16; 478 -0.2 10.5 9.16; 479 -0.2 10.5 5.64
146. 480 0.57 10.5 10.92; 481 0.57 10.5 9.16; 482 1.66 10.5 10.92
147. 483 7.86 10.5 14.49; 484 -1.22 10.5 10.92; 485 6.35 10.5 14.49
148. 486 9.92 10.5 13.3; 487 13.56 10.5 13.3; 488 12.02 10.5 24.45
149. 489 12.02 10.5 20.26; 490 12.02 10.5 22.56; 491 13.56 10.5 22.56
150. 492 10.33 10.5 27.54; 493 10.33 10.5 24.45; 494 8.6 10.5 27.54
```

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

151. 495 1.9 10.5 19.02; 496 0.56 10.5 22.34; 497 0.559999 10.5 27.54
152. 498 0.559999 10.5 25.16; 499 3.68 10.5 27.54; 500 3.68 10.5 25.16
153. 501 0.56 10.5 24.15; 502 -1.91 10.5 24.15; 503 -1.91 10.5 19.02
154. 504 -0.11 10.5 19.02; 506 -1.22 10.5 15.99; 507 8.6 10.5 23.69
155. 508 5.35 10.5 23.69; 509 5.35 10.5 20.26; 510 9.74 10.5 14.99
156. 511 4.125 10.5 19.02; 512 4.125 10.5 15.99; 513 -1.66 10.5 16.9
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158. 517 3.84 10.5 15.99; 518 3.84 10.5 14.49; 519 3.84 10.5 15.24
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160. 523 10.76 10.5 14.99; 524 10.76 10.5 14.2; 525 9.92 10.5 14.2
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162. 530 10.11 13.6 0; 531 13.33 13.6 0; 532 -0.35 13.6 5.64; 533 3.08 13.6 5.64
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166. 543 9.92 13.6 13.03; 544 13.33 13.6 13.3; 545 -1.22 13.6 14.49
167. 546 1.66 13.6 14.49; 547 7.86 13.6 14.99; 548 9.92 13.6 14.99
168. 549 13.56 13.6 14.99; 550 -0.11 13.6 15.99; 551 5.35 13.6 15.99
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171. 558 7.49 13.6 20.26; 559 9.74 13.6 20.26; 560 13.56 13.6 20.26
172. 561 -1.91 13.6 22.34; 562 1.9 13.6 22.34; 563 -2.21 13.6 24.15
173. 564 8.6 13.6 24.45; 565 13.56 13.6 24.45; 566 5.35 13.6 25.16
174. 567 -2.46 13.6 27.54; 568 5.35 13.6 27.54; 569 10.2 13.6 27.54
175. 570 13.56 13.6 27.54; 571 -0.24 13.6 0; 572 -0.24 13.6 5.64; 573 13.56 13.6 0
176. 574 13.56 13.6 5.64; 575 6.66 13.6 0; 576 10.11 13.6 5.64; 577 -0.24 13.6 3.86
177. 578 3.08 13.6 3.86; 579 6.66 13.6 3.86; 580 10.11 13.6 3.86
178. 581 13.56 13.6 3.86; 582 1.84 13.6 5.64; 583 1.84 13.6 3.86
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182. 594 12.39 13.6 5.64; 595 6.35 13.6 7.2; 596 9.32 13.6 7.2; 597 7.76 13.6 7.2
183. 598 7.76 13.6 5.64; 599 6.35 13.6 10.92; 600 3.08 13.6 7.2; 601 4.66 13.6 7.2
184. 602 4.66 13.6 5.64; 603 -0.76 13.6 5.64; 604 -1.11 13.6 10.92
185. 605 -1.11 13.6 9.16; 606 3.08 13.6 9.16; 607 -0.2 13.6 9.16
186. 608 -0.2 13.6 5.64; 609 0.57 13.6 10.92; 610 0.57 13.6 9.16
187. 611 1.66 13.6 10.92; 612 7.86 13.6 14.49; 613 -1.22 13.6 10.92
188. 614 6.35 13.6 14.49; 615 9.92 13.6 13.3; 616 13.56 13.6 13.3
189. 617 12.02 13.6 24.45; 618 12.02 13.6 20.26; 619 12.02 13.6 22.56
190. 620 13.56 13.6 22.56; 621 10.33 13.6 27.54; 622 10.33 13.6 24.45
191. 623 8.6 13.6 27.54; 624 1.9 13.6 19.02; 625 0.56 13.6 22.34
192. 626 0.559999 13.6 27.54; 627 0.559999 13.6 25.16; 628 3.68 13.6 27.54
193. 629 3.68 13.6 25.16; 630 0.56 13.6 24.15; 631 -1.91 13.6 24.15
194. 632 -1.91 13.6 19.02; 633 -0.11 13.6 19.02; 634 -1.66 13.6 15.99
195. 635 -1.22 13.6 15.99; 636 8.6 13.6 23.69; 637 5.35 13.6 23.69
196. 638 5.35 13.6 20.26; 639 9.74 13.6 14.99; 640 4.125 13.6 19.02
197. 641 4.125 13.6 15.99; 642 -1.66 13.6 16.9; 643 -0.11 13.6 16.9
198. 644 4.59 13.6 15.99; 645 4.59 13.6 14.49; 646 3.84 13.6 15.99
199. 647 3.84 13.6 14.49; 648 3.84 13.6 15.24; 649 4.59 13.6 15.24
200. 650 10.85 13.6 13.3; 651 10.85 13.6 9.58; 652 10.76 13.6 14.99
201. 653 10.76 13.6 14.2; 654 9.92 13.6 14.2; 655 -2.21 13.6 24.72
202. 656 -2.46 13.6 24.72; 657 0 16.7 0; 658 3.08 16.7 0; 659 10.11 16.7 0
203. 660 13.33 16.7 0; 661 -0.35 16.7 5.64; 662 3.08 16.7 5.64; 663 6.66 16.7 5.64
204. 664 9.32 16.7 5.64; 665 13.33 16.7 5.64; 666 9.32 16.7 9.58
205. 667 13.33 16.7 9.58; 668 -0.35 16.7 10.92; 669 3.08 16.7 10.92
206. 670 6.35 16.7 11.87; 671 7.86 16.7 13.03; 672 9.92 16.7 13.03

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

207. 673 13.33 16.7 13.3; 674 -1.22 16.7 14.49; 675 1.66 16.7 14.49
208. 676 7.86 16.7 14.99; 677 9.92 16.7 14.99; 678 13.56 16.7 14.99
209. 679 -0.11 16.7 15.99; 680 5.35 16.7 15.99; 681 7.49 16.7 17.68
210. 682 9.74 16.7 17.68; 683 13.56 16.7 17.68; 684 -1.66 16.7 19.02
211. 685 -0.24 16.7 19.02; 686 5.35 16.7 19.02; 687 7.49 16.7 20.26
212. 688 9.74 16.7 20.26; 689 13.56 16.7 20.26; 690 -0.24 16.7 0
213. 691 -0.24 16.7 5.64; 692 13.56 16.7 0; 693 13.56 16.7 5.64; 694 6.66 16.7 0
214. 695 10.11 16.7 5.64; 696 -0.24 16.7 3.86; 697 3.08 16.7 3.86
215. 698 6.66 16.7 3.86; 699 10.11 16.7 3.86; 700 13.56 16.7 3.86
216. 701 1.84 16.7 5.64; 702 1.84 16.7 3.86; 703 4.16 16.7 5.64; 704 4.16 16.7 3.86
217. 705 9.09 16.7 5.64; 706 9.09 16.7 3.86; 707 11.25 16.7 5.64
218. 708 11.25 16.7 3.86; 709 13.56 16.7 9.58; 710 6.35 16.7 5.64
219. 711 6.35 16.7 9.58; 712 12.39 16.7 9.58; 713 12.39 16.7 5.64
220. 714 6.35 16.7 7.2; 715 9.32 16.7 7.2; 716 7.76 16.7 7.2; 717 7.76 16.7 5.64
221. 718 6.35 16.7 10.92; 719 3.08 16.7 7.2; 720 4.66 16.7 7.2; 721 4.66 16.7 5.64
222. 722 -0.76 16.7 5.64; 723 -1.11 16.7 10.92; 724 -1.11 16.7 9.16
223. 725 3.08 16.7 9.16; 726 -0.2 16.7 9.16; 727 -0.2 16.7 5.64
224. 728 0.57 16.7 10.92; 729 0.57 16.7 9.16; 730 1.66 16.7 10.92
225. 731 7.86 16.7 14.49; 732 -1.22 16.7 10.92; 733 6.35 16.7 14.49
226. 734 9.92 16.7 13.3; 735 13.56 16.7 13.3; 736 1.9 16.7 19.02
227. 737 -1.91 16.7 19.02; 738 -0.11 16.7 19.02; 740 -1.22 16.7 15.99
228. 741 9.74 16.7 14.99; 742 4.125 16.7 19.02; 743 4.125 16.7 15.99
229. 744 -1.66 16.7 16.9; 745 -0.11 16.7 16.9; 746 4.59 16.7 15.99
230. 747 4.59 16.7 14.49; 748 3.84 16.7 15.99; 749 3.84 16.7 14.49
231. 750 3.84 16.7 15.24; 751 4.59 16.7 15.24; 752 10.85 16.7 13.3
232. 753 10.85 16.7 9.58; 754 10.76 16.7 14.99; 755 10.76 16.7 14.2
233. 756 9.92 16.7 14.2; 757 -1.91 16.7 22.34; 758 1.9 16.7 22.34
234. 759 -2.21 16.7 24.15; 760 8.6 16.7 24.45; 761 13.56 16.7 24.45
235. 762 5.35 16.7 25.16; 763 -2.46 16.7 27.54; 764 5.35 16.7 27.54
236. 765 10.2 16.7 27.54; 766 13.56 16.7 27.54; 767 12.02 16.7 24.45
237. 768 12.02 16.7 20.26; 769 12.02 16.7 22.56; 770 13.56 16.7 22.56
238. 771 10.33 16.7 27.54; 772 10.33 16.7 24.45; 773 8.6 16.7 27.54
239. 774 0.56 16.7 22.34; 775 0.559999 16.7 27.54; 776 0.559999 16.7 25.16
240. 777 3.68 16.7 27.54; 778 3.68 16.7 25.16; 779 0.56 16.7 24.15
241. 780 -1.91 16.7 24.15; 781 8.6 16.7 23.69; 782 5.35 16.7 23.69
242. 783 5.35 16.7 20.26; 784 -2.21 16.7 24.72; 785 -2.46 16.7 24.72
243. 786 1.9 16.7 25.16; 787 9.74 16.7 24.45; 789 12.02 16.7 21.57
244. 791 12.02 16.7 23.38; 792 1.9 16.7 20.35; 793 1.9 16.7 20.26
245. 794 7.58 16.7 27.54; 796 7.58 16.7 23.69; 797 0 19.8 0; 798 3.08 19.8 0
246. 799 10.11 19.8 0; 800 13.33 19.8 0; 801 -0.35 19.8 5.64; 802 3.08 19.8 5.64
247. 803 6.66 19.8 5.64; 804 9.32 19.8 5.64; 805 13.33 19.8 5.64
248. 806 9.32 19.8 9.58; 807 13.33 19.8 9.58; 808 -0.35 19.8 10.92
249. 809 3.08 19.8 10.92; 810 6.35 19.8 11.87; 811 7.86 19.8 13.03
250. 812 9.92 19.8 13.03; 813 13.33 19.8 13.3; 814 -1.22 19.8 14.49
251. 815 1.66 19.8 14.49; 816 7.86 19.8 14.99; 817 9.92 19.8 14.99
252. 818 13.56 19.8 14.99; 819 -0.11 19.8 15.99; 820 5.35 19.8 15.99
253. 821 7.49 19.8 17.68; 822 9.74 19.8 17.68; 823 13.56 19.8 17.68
254. 824 -1.66 19.8 19.02; 825 -0.24 19.8 19.02; 826 5.35 19.8 19.02
255. 827 7.49 19.8 20.26; 828 9.74 19.8 20.26; 829 13.56 19.8 20.26
256. 830 -1.91 19.8 22.34; 831 1.9 19.8 22.34; 832 -2.21 19.8 24.15
257. 834 13.56 19.8 24.45; 835 5.35 19.8 25.16; 836 -2.46 19.8 27.54
258. 837 5.35 19.8 27.54; 838 10.2 19.8 27.54; 839 13.56 19.8 27.54
259. 840 -0.24 19.8 0; 841 -0.24 19.8 5.64; 842 13.56 19.8 0; 843 13.56 19.8 5.64
260. 844 6.66 19.8 0; 845 10.11 19.8 5.64; 846 -0.24 19.8 3.86; 847 3.08 19.8 3.86
261. 848 6.66 19.8 3.86; 849 10.11 19.8 3.86; 850 13.56 19.8 3.86
262. 851 1.84 19.8 5.64; 852 1.84 19.8 3.86; 853 4.16 19.8 5.64; 854 4.16 19.8 3.86



V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 99

263. 855 9.09 19.8 5.64; 856 9.09 19.8 3.86; 857 11.25 19.8 5.64
264. 858 11.25 19.8 3.86; 859 13.56 19.8 9.58; 860 6.35 19.8 5.64
265. 861 6.35 19.8 9.58; 862 12.39 19.8 9.58; 863 12.39 19.8 5.64
266. 864 6.35 19.8 7.2; 865 9.32 19.8 7.2; 866 7.76 19.8 7.2; 867 7.76 19.8 5.64
267. 868 6.35 19.8 10.92; 869 3.08 19.8 7.2; 870 4.66 19.8 7.2; 871 4.66 19.8 5.64
268. 872 -0.76 19.8 5.64; 873 -1.11 19.8 10.92; 874 -1.11 19.8 9.16
269. 875 3.08 19.8 9.16; 876 -0.2 19.8 9.16; 877 -0.2 19.8 5.64
270. 878 0.57 19.8 10.92; 879 0.57 19.8 9.16; 880 1.66 19.8 10.92
271. 881 7.86 19.8 14.49; 882 -1.22 19.8 10.92; 883 6.35 19.8 14.49
272. 884 9.92 19.8 13.3; 885 13.56 19.8 13.3; 889 13.56 19.8 22.56
273. 890 10.33 19.8 27.54; 892 8.6 19.8 27.54; 893 1.9 19.8 19.02
274. 895 0.559999 19.8 27.54; 897 3.68 19.8 27.54; 900 -1.91 19.8 24.15
275. 901 -1.91 19.8 19.02; 902 -0.11 19.8 19.02; 903 -1.66 19.8 15.99
276. 904 -1.22 19.8 15.99; 907 5.35 19.8 20.26; 908 9.74 19.8 14.99
277. 909 4.125 19.8 19.02; 910 4.125 19.8 15.99; 911 -1.66 19.8 16.9
278. 912 -0.11 19.8 16.9; 913 4.59 19.8 15.99; 914 4.59 19.8 14.49
279. 915 3.84 19.8 15.99; 916 3.84 19.8 14.49; 917 3.84 19.8 15.24
280. 918 4.59 19.8 15.24; 919 10.85 19.8 13.3; 920 10.85 19.8 9.58
281. 921 10.76 19.8 14.99; 922 10.76 19.8 14.2; 923 9.92 19.8 14.2
282. 924 -2.21 19.8 24.72; 925 -2.46 19.8 24.72; 926 1.9 19.8 27.54
283. 927 1.9 19.8 24.15; 928 -1.14 19.8 27.54; 929 -1.14 19.8 24.15
284. 930 1.9 19.8 25.16; 931 1.9 19.8 20.26; 932 9.74 19.8 27.54
285. 933 9.74 19.8 25.16; 934 7.43 19.8 27.54; 936 9.74 19.8 21.44
286. 937 13.56 19.8 21.44; 938 9.74 19.8 23.33; 939 13.56 19.8 23.33
287. 940 11.06 19.8 23.33; 941 11.06 19.8 21.44; 942 0 22.9 0; 943 3.08 22.9 0
288. 944 10.11 22.9 0; 945 13.33 22.9 0; 946 -0.35 22.9 5.64; 947 3.08 22.9 5.64
289. 948 6.66 22.9 5.64; 949 9.32 22.9 5.64; 950 13.33 22.9 5.64
290. 951 9.32 22.9 9.58; 952 13.33 22.9 9.58; 953 -0.35 22.9 10.92
291. 954 3.08 22.9 10.92; 955 6.35 22.9 11.87; 956 7.86 22.9 13.03
292. 957 9.92 22.9 13.03; 958 13.33 22.9 13.3; 959 -1.22 22.9 14.49
293. 960 1.66 22.9 14.49; 961 7.86 22.9 14.99; 962 9.92 22.9 14.99
294. 963 13.56 22.9 14.99; 964 -0.11 22.9 15.99; 965 5.35 22.9 15.99
295. 966 7.49 22.9 17.68; 967 9.74 22.9 17.68; 968 13.56 22.9 17.68
296. 969 -1.66 22.9 19.02; 970 -0.24 22.9 19.02; 971 5.35 22.9 19.02
297. 972 7.49 22.9 20.26; 973 9.74 22.9 20.26; 974 13.56 22.9 20.26
298. 975 -1.91 22.9 22.34; 976 1.9 22.9 22.34; 977 -2.21 22.9 24.15
299. 978 13.56 22.9 24.45; 979 5.35 22.9 25.16; 980 -2.46 22.9 27.54
300. 981 5.35 22.9 27.54; 982 10.2 22.9 27.54; 983 13.56 22.9 27.54
301. 984 -0.24 22.9 0; 985 -0.24 22.9 5.64; 986 13.56 22.9 0; 987 13.56 22.9 5.64
302. 988 6.66 22.9 0; 989 10.11 22.9 5.64; 990 -0.24 22.9 3.86; 991 3.08 22.9 3.86
303. 992 6.66 22.9 3.86; 993 10.11 22.9 3.86; 994 13.56 22.9 3.86
304. 995 1.84 22.9 5.64; 996 1.84 22.9 3.86; 997 4.16 22.9 5.64; 998 4.16 22.9 3.86
305. 999 9.09 22.9 5.64; 1000 9.09 22.9 3.86; 1001 11.25 22.9 5.64
306. 1002 11.25 22.9 3.86; 1003 13.56 22.9 9.58; 1004 6.35 22.9 5.64
307. 1005 6.35 22.9 9.58; 1006 12.39 22.9 9.58; 1007 12.39 22.9 5.64
308. 1008 6.35 22.9 7.2; 1009 9.32 22.9 7.2; 1010 7.76 22.9 7.2
309. 1011 7.76 22.9 5.64; 1012 6.35 22.9 10.92; 1013 3.08 22.9 7.2
310. 1014 4.66 22.9 7.2; 1015 4.66 22.9 5.64; 1016 -0.76 22.9 5.64
311. 1017 -1.11 22.9 10.92; 1018 -1.11 22.9 9.16; 1019 3.08 22.9 9.16
312. 1020 -0.2 22.9 9.16; 1021 -0.2 22.9 5.64; 1022 0.57 22.9 10.92
313. 1023 0.57 22.9 9.16; 1024 1.66 22.9 10.92; 1025 7.86 22.9 14.49
314. 1026 -1.22 22.9 10.92; 1027 6.35 22.9 14.49; 1028 9.92 22.9 13.3
315. 1029 13.56 22.9 13.3; 1030 13.56 22.9 22.56; 1031 10.33 22.9 27.54
316. 1032 8.6 22.9 27.54; 1033 1.9 22.9 19.02; 1034 0.559999 22.9 27.54
317. 1035 3.68 22.9 27.54; 1036 -1.91 22.9 24.15; 1037 -1.91 22.9 19.02
318. 1038 -0.11 22.9 19.02; 1040 -1.22 22.9 15.99; 1041 5.35 22.9 20.26

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 98[illegible]

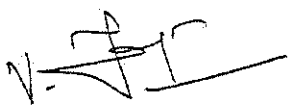
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321. 1048 4.59 22.9 14.49; 1049 3.84 22.9 15.99; 1050 3.84 22.9 14.49
322. 1051 3.84 22.9 15.24; 1052 4.59 22.9 15.24; 1053 10.85 22.9 13.3
323. 1054 10.85 22.9 9.58; 1055 10.76 22.9 14.99; 1056 10.76 22.9 14.2
324. 1057 9.92 22.9 14.2; 1058 -2.21 22.9 24.72; 1059 -2.46 22.9 24.72
325. 1060 1.9 22.9 27.54; 1061 1.9 22.9 24.15; 1062 -1.14 22.9 27.54
326. 1063 -1.14 22.9 24.15; 1064 1.9 22.9 25.16; 1065 1.9 22.9 20.26
327. 1066 9.74 22.9 27.54; 1067 9.74 22.9 25.16; 1068 7.43 22.9 27.54
328. 1069 7.43 22.9 25.16; 1070 9.74 22.9 21.44; 1071 13.56 22.9 21.44
329. 1072 9.74 22.9 23.33; 1073 13.56 22.9 23.33; 1075 11.06 22.9 21.44
330. 1076 9.74 22.9 22.36; 1078 13.56 22.9 22.36; 1079 9.74 22.9 24
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332. 1084 10.11 26 0; 1085 13.33 26 0; 1086 -0.35 26 5.64; 1087 3.08 26 5.64
333. 1088 6.66 26 5.64; 1089 9.32 26 5.64; 1090 13.33 26 5.64; 1091 9.32 26 9.58
334. 1092 13.33 26 9.58; 1093 -0.35 26 10.92; 1094 3.08 26 10.92
335. 1095 6.35 26 11.87; 1096 7.86 26 13.03; 1097 9.92 26 13.03; 1098 13.33 26 13.3
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338. 1105 5.35 26 15.99; 1106 7.49 26 17.68; 1107 9.74 26 17.68
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351. 1151 7.76 26 5.64; 1152 6.35 26 10.92; 1153 3.08 26 7.2; 1154 4.66 26 7.2
352. 1155 4.66 26 5.64; 1156 -0.76 26 5.64; 1157 -1.11 26 10.92; 1158 -1.11 26 9.16
353. 1159 3.08 26 9.16; 1160 -0.2 26 9.16; 1161 -0.2 26 5.64; 1162 0.57 26 10.92
354. 1163 0.57 26 9.16; 1164 1.66 26 10.92; 1165 7.86 26 14.49; 1166 -1.22 26 10.92
355. 1167 6.35 26 14.49; 1168 9.92 26 13.3; 1169 13.56 26 13.3; 1170 13.56 26 22.56
356. 1171 10.33 26 27.54; 1172 8.6 26 27.54; 1173 1.9 26 19.02
357. 1174 0.559999 26 27.54; 1175 3.68 26 27.54; 1176 -1.91 26 24.15
358. 1177 -1.91 26 19.02; 1178 -0.11 26 19.02; 1179 -1.66 26 15.99
359. 1180 -1.22 26 15.99; 1181 5.35 26 20.26; 1182 9.74 26 14.99
360. 1183 4.125 26 19.02; 1184 4.125 26 15.99; 1185 -1.66 26 16.9
361. 1186 -0.11 26 16.9; 1187 4.59 26 15.99; 1188 4.59 26 14.49; 1189 3.84 26 15.99
362. 1190 3.84 26 14.49; 1191 3.84 26 15.24; 1192 4.59 26 15.24; 1193 10.85 26 13.3
363. 1194 10.85 26 9.58; 1195 10.76 26 14.99; 1196 10.76 26 14.2; 1197 9.92 26 14.2
364. 1198 -2.21 26 24.72; 1199 -2.46 26 24.72; 1200 1.9 26 27.54; 1201 1.9 26 24.15
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366. 1206 9.74 26 27.54; 1207 9.74 26 25.16; 1208 7.43 26 27.54; 1209 7.43 26 25.16
367. 1210 9.74 26 21.44; 1211 13.56 26 21.44; 1212 9.74 26 23.33
368. 1213 13.56 26 23.33; 1216 9.74 26 22.36; 1218 13.56 26 22.36; 1219 9.74 26 24
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370. 1225 9.74 26 21.32; 1226 9.74 26 21.29; 1227 11.06 26 21.45
371. 1228 13.56 26 21.32; 1229 10.795 26 23.33; 1230 10.795 26 22.39; 1232 0 29.1 0
372. 1233 3.08 29.1 0; 1234 10.11 29.1 0; 1235 13.33 29.1 0; 1236 -0.35 29.1 5.64
373. 1237 3.08 29.1 5.64; 1238 6.66 29.1 5.64; 1239 9.32 29.1 5.64
374. 1240 13.33 29.1 5.64; 1241 9.32 29.1 9.58; 1242 13.33 29.1 9.58
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Mobile: 9841269154

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375. 1243 -0.35 29.1 10.92; 1244 3.08 29.1 10.92; 1245 6.35 29.1 11.87
376. 1246 7.86 29.1 13.03; 1247 9.92 29.1 13.03; 1248 13.33 29.1 13.3
377. 1249 -1.22 29.1 14.49; 1250 1.66 29.1 14.49; 1251 7.86 29.1 14.99
378. 1252 9.92 29.1 14.99; 1253 13.56 29.1 14.99; 1254 -0.11 29.1 15.99
379. 1255 5.35 29.1 15.99; 1256 7.49 29.1 17.68; 1257 9.74 29.1 17.68
380. 1258 13.56 29.1 17.68; 1259 -1.66 29.1 19.02; 1260 -0.24 29.1 19.02
381. 1261 5.35 29.1 19.02; 1262 7.49 29.1 20.26; 1263 9.74 29.1 20.26
382. 1264 13.56 29.1 20.26; 1265 -1.91 29.1 22.34; 1266 1.9 29.1 22.34
383. 1267 -2.21 29.1 24.15; 1268 13.56 29.1 24.45; 1269 5.35 29.1 25.16
384. 1270 -2.46 29.1 27.54; 1271 5.35 29.1 27.54; 1272 10.2 29.1 27.54
385. 1273 13.56 29.1 27.54; 1274 -0.24 29.1 0; 1275 -0.24 29.1 5.64
386. 1276 13.56 29.1 0; 1277 13.56 29.1 5.64; 1278 6.66 29.1 0
387. 1279 10.11 29.1 5.64; 1280 -0.24 29.1 3.86; 1281 3.08 29.1 3.86
388. 1282 6.66 29.1 3.86; 1283 10.11 29.1 3.86; 1284 13.56 29.1 3.86
389. 1285 1.84 29.1 5.64; 1286 1.84 29.1 3.86; 1287 4.16 29.1 5.64
390. 1288 4.16 29.1 3.86; 1289 9.09 29.1 5.64; 1290 9.09 29.1 3.86
391. 1291 11.25 29.1 5.64; 1292 11.25 29.1 3.86; 1293 13.56 29.1 9.58
392. 1294 6.35 29.1 5.64; 1295 6.35 29.1 9.58; 1296 12.39 29.1 9.58
393. 1297 12.39 29.1 5.64; 1298 6.35 29.1 7.2; 1299 9.32 29.1 7.2
394. 1300 7.76 29.1 7.2; 1301 7.76 29.1 5.64; 1302 6.35 29.1 10.92
395. 1303 3.08 29.1 7.2; 1304 4.66 29.1 7.2; 1305 4.66 29.1 5.64
396. 1306 -0.76 29.1 5.64; 1307 -1.11 29.1 10.92; 1308 -1.11 29.1 9.16
397. 1309 3.08 29.1 9.16; 1310 -0.2 29.1 9.16; 1311 -0.2 29.1 5.64
398. 1312 0.57 29.1 10.92; 1313 0.57 29.1 9.16; 1314 1.66 29.1 10.92
399. 1315 7.86 29.1 14.49; 1316 -1.22 29.1 10.92; 1317 6.35 29.1 14.49
400. 1318 9.92 29.1 13.3; 1319 13.56 29.1 13.3; 1320 13.56 29.1 22.56
401. 1321 10.33 29.1 27.54; 1322 8.6 29.1 27.54; 1323 1.9 29.1 19.02
402. 1324 0.559999 29.1 27.54; 1325 3.68 29.1 27.54; 1326 -1.91 29.1 24.15
403. 1327 -1.91 29.1 19.02; 1328 -0.11 29.1 19.02; 1330 -1.22 29.1 15.99
404. 1331 5.35 29.1 20.26; 1332 9.74 29.1 14.99; 1333 4.125 29.1 19.02
405. 1334 4.125 29.1 15.99; 1335 -1.66 29.1 16.9; 1336 -0.11 29.1 16.9
406. 1337 4.59 29.1 15.99; 1338 4.59 29.1 14.49; 1339 3.84 29.1 15.99
407. 1340 3.84 29.1 14.49; 1341 3.84 29.1 15.24; 1342 4.59 29.1 15.24
408. 1343 10.85 29.1 13.3; 1344 10.85 29.1 9.58; 1345 10.76 29.1 14.99
409. 1346 10.76 29.1 14.2; 1347 9.92 29.1 14.2; 1348 -2.21 29.1 24.72
410. 1349 -2.46 29.1 24.72; 1350 1.9 29.1 27.54; 1351 1.9 29.1 24.15
411. 1352 -1.14 29.1 27.54; 1353 -1.14 29.1 24.15; 1354 1.9 29.1 25.16
412. 1355 1.9 29.1 20.26; 1356 9.74 29.1 27.54; 1357 9.74 29.1 25.16
413. 1358 7.43 29.1 27.54; 1359 7.43 29.1 25.16; 1360 9.74 29.1 21.44
414. 1361 13.56 29.1 21.44; 1362 9.74 29.1 23.33; 1363 13.56 29.1 23.33
415. 1366 9.74 29.1 22.36; 1367 11.06 29.1 22.36; 1368 13.56 29.1 22.36
416. 1369 9.74 29.1 24; 1371 13.56 29.1 24; 1372 1.14 29.1 9.16
417. 1373 1.14 29.1 5.64; 1374 4.84 29.1 3.86; 1375 4.84 29.1 0
418. 1376 9.15 29.1 3.86; 1377 9.15 29.1 0; 1379 9.8 29.1 9.58; 1380 9.8 29.1 13.03
419. 1381 0 32.2 0; 1382 3.08 32.2 0; 1383 10.11 32.2 0; 1384 13.33 32.2 0
420. 1385 -0.35 32.2 5.64; 1386 3.08 32.2 5.64; 1387 6.66 32.2 5.64
421. 1388 9.32 32.2 5.64; 1389 13.33 32.2 5.64; 1390 9.32 32.2 9.58
422. 1391 13.33 32.2 9.58; 1392 -0.35 32.2 10.92; 1393 3.08 32.2 10.92
423. 1394 6.35 32.2 11.87; 1395 7.86 32.2 13.03; 1396 9.92 32.2 13.03
424. 1397 13.33 32.2 13.3; 1398 -1.22 32.2 14.49; 1399 1.66 32.2 14.49
425. 1400 7.86 32.2 14.99; 1401 9.92 32.2 14.99; 1402 13.56 32.2 14.99
426. 1403 -0.11 32.2 15.99; 1404 5.35 32.2 15.99; 1405 7.49 32.2 17.68
427. 1406 9.74 32.2 17.68; 1407 13.56 32.2 17.68; 1408 -1.66 32.2 19.02
428. 1409 -0.24 32.2 19.02; 1410 5.35 32.2 19.02; 1411 7.49 32.2 20.26
429. 1412 9.74 32.2 20.26; 1413 13.56 32.2 20.26; 1414 -1.91 32.2 22.34
430. 1415 1.9 32.2 22.34; 1416 -2.21 32.2 24.15; 1417 13.56 32.2 24.45
```

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841289154

431. 1418 5.35 32.2 25.16; 1419 -2.46 32.2 27.54; 1420 5.35 32.2 27.54
432. 1421 10.2 32.2 27.54; 1422 13.56 32.2 27.54; 1423 -0.24 32.2 0
433. 1424 -0.24 32.2 5.64; 1425 13.56 32.2 0; 1426 13.56 32.2 5.64
434. 1427 6.66 32.2 0; 1428 10.11 32.2 5.64; 1429 -0.24 32.2 3.86
435. 1430 3.08 32.2 3.86; 1431 6.66 32.2 3.86; 1432 10.11 32.2 3.86
436. 1433 13.56 32.2 3.86; 1434 1.84 32.2 5.64; 1435 1.84 32.2 3.86
437. 1436 4.16 32.2 5.64; 1437 4.16 32.2 3.86; 1438 9.09 32.2 5.64
438. 1439 9.09 32.2 3.86; 1440 11.25 32.2 5.64; 1441 11.25 32.2 3.86
439. 1442 13.56 32.2 9.58; 1443 6.35 32.2 5.64; 1444 6.35 32.2 9.58
440. 1445 12.39 32.2 9.58; 1446 12.39 32.2 5.64; 1447 6.35 32.2 7.2
441. 1448 9.32 32.2 7.2; 1449 7.76 32.2 7.2; 1450 7.76 32.2 5.64
442. 1451 6.35 32.2 10.92; 1452 3.08 32.2 7.2; 1453 4.66 32.2 7.2
443. 1454 4.66 32.2 5.64; 1455 -0.76 32.2 5.64; 1456 -1.11 32.2 10.92
444. 1457 -1.11 32.2 9.16; 1458 3.08 32.2 9.16; 1459 -0.2 32.2 9.16
445. 1460 -0.2 32.2 5.64; 1461 0.57 32.2 10.92; 1462 0.57 32.2 9.16
446. 1463 1.66 32.2 10.92; 1464 7.86 32.2 14.49; 1465 -1.22 32.2 10.92
447. 1466 6.35 32.2 14.49; 1467 9.92 32.2 13.3; 1468 13.56 32.2 13.3
448. 1469 13.56 32.2 22.56; 1470 10.33 32.2 27.54; 1471 8.6 32.2 27.54
449. 1472 1.9 32.2 19.02; 1473 0.559999 32.2 27.54; 1474 3.68 32.2 27.54
450. 1475 -1.91 32.2 24.15; 1476 -1.91 32.2 19.02; 1477 -0.11 32.2 19.02
451. 1478 -1.66 32.2 15.99; 1479 -1.22 32.2 15.99; 1480 5.35 32.2 20.26
452. 1481 9.74 32.2 14.99; 1482 4.125 32.2 19.02; 1483 4.125 32.2 15.99
453. 1484 -1.66 32.2 16.9; 1485 -0.11 32.2 16.9; 1486 4.59 32.2 15.99
454. 1487 4.59 32.2 14.49; 1488 3.84 32.2 15.99; 1489 3.84 32.2 14.49
455. 1490 3.84 32.2 15.24; 1491 4.59 32.2 15.24; 1492 10.85 32.2 13.3
456. 1493 10.85 32.2 9.58; 1494 10.76 32.2 14.99; 1495 10.76 32.2 14.2
457. 1496 9.92 32.2 14.2; 1497 -2.21 32.2 24.72; 1498 -2.46 32.2 24.72
458. 1499 1.9 32.2 27.54; 1500 1.9 32.2 24.15; 1501 -1.14 32.2 27.54
459. 1502 -1.14 32.2 24.15; 1503 1.9 32.2 25.16; 1504 1.9 32.2 20.26
460. 1505 9.74 32.2 27.54; 1506 9.74 32.2 25.16; 1507 7.43 32.2 27.54
461. 1508 7.43 32.2 25.16; 1509 9.74 32.2 21.44; 1510 13.56 32.2 21.44
462. 1511 9.74 32.2 23.33; 1512 13.56 32.2 23.33; 1513 9.74 32.2 22.36
463. 1514 11.06 32.2 22.36; 1515 13.56 32.2 22.36; 1516 9.74 32.2 24
464. 1518 13.56 32.2 24; 1519 1.14 32.2 9.16; 1520 1.14 32.2 5.64
465. 1521 4.84 32.2 3.86; 1522 4.84 32.2 0; 1523 9.15 32.2 3.86; 1524 9.15 32.2 0
466. 1525 9.8 32.2 9.58; 1526 9.8 32.2 13.03; 1527 4.84 32.2 5.64
467. 1528 3.35 32.2 3.86; 1529 3.35 32.2 5.64; 1530 9.15 32.2 7.2
468. 1531 9.15 32.2 5.64; 1532 6.22 32.2 3.86; 1533 6.22 32.2 5.64
469. 1534 1.14 32.2 10.92; 1535 7.86 35.3 13.03; 1536 9.92 35.3 13.03
470. 1537 7.86 35.3 14.99; 1538 9.92 35.3 14.99; 1539 13.56 35.3 14.99
471. 1540 -0.11 35.3 15.99; 1541 5.35 35.3 15.99; 1542 7.49 35.3 17.68
472. 1543 9.74 35.3 17.68; 1544 13.56 35.3 17.68; 1545 -0.24 35.3 19.02
473. 1546 5.35 35.3 19.02; 1547 7.49 35.3 20.26; 1548 9.74 35.3 20.26
474. 1549 7.86 35.3 14.49; 1550 6.35 35.3 14.49; 1551 9.92 35.3 13.3
475. 1552 1.9 35.3 19.02; 1553 -0.11 35.3 19.02; 1554 5.35 35.3 20.26
476. 1555 9.74 35.3 14.99; 1556 4.125 35.3 19.02; 1557 4.125 35.3 15.99
477. 1558 -0.11 35.3 16.9; 1559 4.59 35.3 15.99; 1560 4.59 35.3 14.49
478. 1561 3.84 35.3 15.99; 1562 3.84 35.3 14.49; 1563 3.84 35.3 15.24
479. 1564 4.59 35.3 15.24; 1565 10.76 35.3 14.99; 1566 9.92 35.3 14.2
480. 1567 9.8 35.3 13.03; 1568 7.86 36.55 13.03; 1569 9.92 36.55 13.03
481. 1570 7.86 36.55 14.99; 1571 9.92 36.55 14.99; 1572 7.49 36.55 17.68
482. 1573 9.74 36.55 17.68; 1574 7.49 36.55 20.26; 1575 9.74 36.55 20.26
483. 1576 7.86 36.55 14.49; 1577 9.92 36.55 13.3; 1578 9.74 36.55 14.99
484. 1579 9.92 36.55 14.2; 1580 9.8 36.55 13.03; 1581 7.86 0.3 13.03
485. 1582 7.86 0.6 13.03; 1583 7.86 0.9 13.03; 1584 7.86 1.5875 13.03
486. 1585 7.86 1.975 13.03; 1586 7.86 2.3625 13.03; 1587 7.86 2.75 13.03



V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

487. 1588 7.86 3.1375 13.03; 1589 7.86 3.525 13.03; 1590 7.86 3.9125 13.03
488. 1591 7.86 4.6875 13.03; 1592 7.86 5.075 13.03; 1593 7.86 5.4625 13.03
489. 1594 7.86 5.85 13.03; 1595 7.86 6.2375 13.03; 1596 7.86 6.625 13.03
490. 1597 7.86 7.0125 13.03; 1598 7.86 7.7875 13.03; 1599 7.86 8.175 13.03
491. 1600 7.86 8.5625 13.03; 1601 7.86 8.95 13.03; 1602 7.86 9.3375 13.03
492. 1603 7.86 9.725 13.03; 1604 7.86 10.1125 13.03; 1605 7.86 10.8875 13.03
493. 1606 7.86 11.275 13.03; 1607 7.86 11.6625 13.03; 1608 7.86 12.05 13.03
494. 1609 7.86 12.4375 13.03; 1610 7.86 12.825 13.03; 1611 7.86 13.2125 13.03
495. 1612 7.86 13.9875 13.03; 1613 7.86 14.375 13.03; 1614 7.86 14.7625 13.03
496. 1615 7.86 15.15 13.03; 1616 7.86 15.5375 13.03; 1617 7.86 15.925 13.03
497. 1618 7.86 16.3125 13.03; 1619 7.86 17.0875 13.03; 1620 7.86 17.475 13.03
498. 1621 7.86 17.8625 13.03; 1622 7.86 18.25 13.03; 1623 7.86 18.6375 13.03
499. 1624 7.86 19.025 13.03; 1625 7.86 19.4125 13.03; 1626 7.86 20.1875 13.03
500. 1627 7.86 20.575 13.03; 1628 7.86 20.9625 13.03; 1629 7.86 21.35 13.03
501. 1630 7.86 21.7375 13.03; 1631 7.86 22.125 13.03; 1632 7.86 22.5125 13.03
502. 1633 7.86 23.2875 13.03; 1634 7.86 23.675 13.03; 1635 7.86 24.0625 13.03
503. 1636 7.86 24.45 13.03; 1637 7.86 24.8375 13.03; 1638 7.86 25.225 13.03
504. 1639 7.86 25.6125 13.03; 1640 7.86 26.3875 13.03; 1641 7.86 26.775 13.03
505. 1642 7.86 27.1625 13.03; 1643 7.86 27.55 13.03; 1644 7.86 27.9375 13.03
506. 1645 7.86 28.325 13.03; 1646 7.86 28.7125 13.03; 1647 7.86 29.4875 13.03
507. 1648 7.86 29.875 13.03; 1649 7.86 30.2625 13.03; 1650 7.86 30.65 13.03
508. 1651 7.86 31.0375 13.03; 1652 7.86 31.425 13.03; 1653 7.86 31.8125 13.03
509. 1654 7.86 32.5875 13.03; 1655 7.86 32.975 13.03; 1656 7.86 33.3625 13.03
510. 1657 7.86 33.75 13.03; 1658 7.86 34.1375 13.03; 1659 7.86 34.525 13.03
511. 1660 7.86 34.9125 13.03; 1661 7.86 35.6125 13.03; 1662 7.86 35.925 13.03
512. 1663 7.86 36.2375 13.03; 1664 8.345 36.55 13.03; 1665 8.83 36.55 13.03
513. 1666 9.315 36.55 13.03; 1667 9.86 36.55 13.03; 1668 9.92 36.2375 13.03
514. 1669 9.92 35.925 13.03; 1670 9.92 35.6125 13.03; 1671 9.92 34.9125 13.03
515. 1672 9.92 34.525 13.03; 1673 9.92 34.1375 13.03; 1674 9.92 33.75 13.03
516. 1675 9.92 33.3625 13.03; 1676 9.92 32.975 13.03; 1677 9.92 32.5875 13.03
517. 1678 9.92 31.8125 13.03; 1679 9.92 31.425 13.03; 1680 9.92 31.0375 13.03
518. 1681 9.92 30.65 13.03; 1682 9.92 30.2625 13.03; 1683 9.92 29.875 13.03
519. 1684 9.92 29.4875 13.03; 1685 9.92 28.7125 13.03; 1686 9.92 28.325 13.03
520. 1687 9.92 27.9375 13.03; 1688 9.92 27.55 13.03; 1689 9.92 27.1625 13.03
521. 1690 9.92 26.775 13.03; 1691 9.92 26.3875 13.03; 1692 9.92 25.6125 13.03
522. 1693 9.92 25.225 13.03; 1694 9.92 24.8375 13.03; 1695 9.92 24.45 13.03
523. 1696 9.92 24.0625 13.03; 1697 9.92 23.675 13.03; 1698 9.92 23.2875 13.03
524. 1699 9.92 22.5125 13.03; 1700 9.92 22.125 13.03; 1701 9.92 21.7375 13.03
525. 1702 9.92 21.35 13.03; 1703 9.92 20.9625 13.03; 1704 9.92 20.575 13.03
526. 1705 9.92 20.1875 13.03; 1706 9.92 19.4125 13.03; 1707 9.92 19.025 13.03
527. 1708 9.92 18.6375 13.03; 1709 9.92 18.25 13.03; 1710 9.92 17.8625 13.03
528. 1711 9.92 17.475 13.03; 1712 9.92 17.0875 13.03; 1713 9.92 16.3125 13.03
529. 1714 9.92 15.925 13.03; 1715 9.92 15.5375 13.03; 1716 9.92 15.15 13.03
530. 1717 9.92 14.7625 13.03; 1718 9.92 14.375 13.03; 1719 9.92 13.9875 13.03
531. 1720 9.92 13.2125 13.03; 1721 9.92 12.825 13.03; 1722 9.92 12.4375 13.03
532. 1723 9.92 12.05 13.03; 1724 9.92 11.6625 13.03; 1725 9.92 11.275 13.03
533. 1726 9.92 10.8875 13.03; 1727 9.92 10.1125 13.03; 1728 9.92 9.725 13.03
534. 1729 9.92 9.3375 13.03; 1730 9.92 8.95 13.03; 1731 9.92 8.5625 13.03
535. 1732 9.92 8.175 13.03; 1733 9.92 7.7875 13.03; 1734 9.92 7.0125 13.03
536. 1735 9.92 6.625 13.03; 1736 9.92 6.2375 13.03; 1737 9.92 5.85 13.03
537. 1738 9.92 5.4625 13.03; 1739 9.92 5.075 13.03; 1740 9.92 4.6875 13.03
538. 1741 9.92 3.9125 13.03; 1742 9.92 3.525 13.03; 1743 9.92 3.1375 13.03
539. 1744 9.92 2.75 13.03; 1745 9.92 2.3625 13.03; 1746 9.92 1.975 13.03
540. 1747 9.92 1.5875 13.03; 1748 9.92 0.9 13.03; 1749 9.92 0.6 13.03
541. 1750 9.92 0.3 13.03; 1751 9.57667 0 13.03; 1752 9.23333 0 13.03
542. 1753 8.89 0 13.03; 1754 8.54667 0 13.03; 1755 8.20333 0 13.03

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

543. 1756 8.225 1.2 13.03; 1757 8.59 1.2 13.03; 1758 8.955 1.2 13.03
544. 1759 9.62 1.2 13.03; 1760 8.20333 4.3 13.03; 1761 8.54667 4.3 13.03
545. 1762 8.89 4.3 13.03; 1763 9.23333 4.3 13.03; 1764 9.57667 4.3 13.03
546. 1765 8.20333 7.4 13.03; 1766 8.54667 7.4 13.03; 1767 8.89 7.4 13.03
547. 1768 9.23333 7.4 13.03; 1769 9.57667 7.4 13.03; 1770 8.20333 10.5 13.03
548. 1771 8.54667 10.5 13.03; 1772 8.89 10.5 13.03; 1773 9.23333 10.5 13.03
549. 1774 9.57667 10.5 13.03; 1775 8.20333 13.6 13.03; 1776 8.54667 13.6 13.03
550. 1777 8.89 13.6 13.03; 1778 9.23333 13.6 13.03; 1779 9.57667 13.6 13.03
551. 1780 8.20333 16.7 13.03; 1781 8.54667 16.7 13.03; 1782 8.89 16.7 13.03
552. 1783 9.23333 16.7 13.03; 1784 9.57667 16.7 13.03; 1785 8.20333 19.8 13.03
553. 1786 8.54667 19.8 13.03; 1787 8.89 19.8 13.03; 1788 9.23333 19.8 13.03
554. 1789 9.57667 19.8 13.03; 1790 8.20333 22.9 13.03; 1791 8.54667 22.9 13.03
555. 1792 8.89 22.9 13.03; 1793 9.23333 22.9 13.03; 1794 9.57667 22.9 13.03
556. 1795 8.20333 26 13.03; 1796 8.54667 26 13.03; 1797 8.89 26 13.03
557. 1798 9.23333 26 13.03; 1799 9.57667 26 13.03; 1800 8.345 29.1 13.03
558. 1801 8.83 29.1 13.03; 1802 9.315 29.1 13.03; 1803 9.86 29.1 13.03
559. 1804 8.345 32.2 13.03; 1805 8.83 32.2 13.03; 1806 9.315 32.2 13.03
560. 1807 9.86 32.2 13.03; 1808 8.345 35.3 13.03; 1809 8.83 35.3 13.03
561. 1810 9.315 35.3 13.03; 1811 9.86 35.3 13.03; 1812 9.41862 34.5912 13.03
562. 1813 9.29344 33.7468 13.03; 1814 9.42117 32.9004 13.03
563. 1815 8.70469 31.4713 13.03; 1816 9.32343 30.6516 13.03
564. 1817 8.70093 29.8212 13.03; 1818 9.41114 28.4035 13.03
565. 1819 9.25921 27.5799 13.03; 1820 9.23394 26.766 13.03
566. 1821 9.21292 25.241 13.03; 1822 9.17783 24.4514 13.03
567. 1823 9.20752 23.667 13.03; 1824 9.21292 22.141 13.03
568. 1825 9.17783 21.3514 13.03; 1826 9.20752 20.567 13.03
569. 1827 9.21292 19.041 13.03; 1828 9.17783 18.2514 13.03
570. 1829 9.20752 17.467 13.03; 1830 9.21292 15.941 13.03
571. 1831 9.17783 15.1514 13.03; 1832 9.20752 14.367 13.03
572. 1833 9.21292 12.841 13.03; 1834 9.17783 12.0514 13.03
573. 1835 9.20752 11.267 13.03; 1836 9.20813 9.73322 13.03; 1837 9.17737 8.95 13.03
574. 1838 9.20929 8.16666 13.03; 1839 9.21292 6.64102 13.03
575. 1840 9.17783 5.85143 13.03; 1841 9.20752 5.06702 13.03
576. 1842 9.1964 3.53081 13.03; 1843 9.18763 2.7543 13.03
577. 1844 9.23372 1.98501 13.03; 1845 8.55225 0.597789 13.03
578. 1846 8.53189 25.2467 13.03; 1847 8.54552 26.7582 13.03
579. 1848 8.53189 22.1467 13.03; 1849 8.52541 23.6641 13.03
580. 1850 8.53189 19.0467 13.03; 1851 8.52541 20.5641 13.03
581. 1852 8.53189 15.9467 13.03; 1853 8.52541 17.4641 13.03
582. 1854 8.52541 14.3641 13.03; 1855 8.53189 12.8467 13.03
583. 1856 8.52487 9.73576 13.03; 1857 8.52541 11.2641 13.03
584. 1858 8.53189 6.6467 13.03; 1859 8.52357 8.1644 13.03
585. 1860 8.52551 3.53786 13.03; 1861 8.52541 5.06409 13.03
586. 1862 8.54638 1.97259 13.03; 1863 8.64115 34.5372 13.03
587. 1864 8.57513 33.7411 13.03; 1865 8.61832 30.6533 13.03
588. 1866 8.56186 27.5674 13.03; 1867 8.51526 24.4519 13.03
589. 1868 8.51526 21.3519 13.03; 1869 8.51526 18.2519 13.03
590. 1870 8.51526 15.1519 13.03; 1871 8.51526 12.0519 13.03
591. 1872 8.512 8.9496 13.03; 1873 8.51526 5.85193 13.03
592. 1874 8.51759 2.76011 13.03; 1875 8.62707 32.9399 13.03
593. 1876 8.62421 28.3604 13.03; 1877 9.26579 0.577372 13.03
594. 1878 8.74878 35.9236 13.03; 1879 9.52463 35.9408 13.03
595. 1880 9.44209 29.7912 13.03; 1881 9.44698 31.495 13.03
596. 1882 8.90345 0.59069 13.03; 1883 9.28974 0.866756 13.03
597. 1884 8.56986 0.898336 13.03; 1885 8.1966 22.1371 13.03
598. 1886 8.53964 22.5288 13.03; 1887 8.78381 35.601 13.03

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

599. 1888 8.2844 35.925 13.03; 1889 8.79285 36.2436 13.03
600. 1890 9.14675 35.9246 13.03; 1891 9.62996 36.2776 13.03
601. 1892 9.56355 15.932 13.03; 1893 9.22155 16.3334 13.03
602. 1894 8.1966 25.2371 13.03; 1895 8.53964 25.6288 13.03
603. 1896 9.22155 13.2334 13.03; 1897 9.56355 12.832 13.03
604. 1898 9.5582 3.52791 13.03; 1899 9.17804 3.14118 13.03
605. 1900 9.53983 2.75077 13.03; 1901 9.56355 25.232 13.03
606. 1902 9.22155 25.6334 13.03; 1903 9.73549 35.9334 13.03
607. 1904 9.5935 35.5918 13.03; 1905 8.18723 18.2509 13.03
608. 1906 8.5209 18.6505 13.03; 1907 8.1966 19.0371 13.03; 1908 8.1928 23.668 13.03
609. 1909 8.51859 24.0575 13.03; 1910 8.18723 24.4509 13.03
610. 1911 8.1966 15.9371 13.03; 1912 8.53964 16.3288 13.03
611. 1913 9.54861 24.4504 13.03; 1914 9.18893 24.0588 13.03
612. 1915 9.56273 23.6717 13.03; 1916 9.59834 35.0158 13.03
613. 1917 8.72617 34.931 13.03; 1918 9.04484 34.568 13.03
614. 1919 8.18723 21.3509 13.03; 1920 8.5209 21.7505 13.03
615. 1921 9.58837 27.5691 13.03; 1922 9.24136 27.174 13.03
616. 1923 9.57697 26.7705 13.03; 1924 8.53651 13.9784 13.03
617. 1925 8.1928 14.368 13.03; 1926 9.22155 7.03335 13.03
618. 1927 9.56355 6.63201 13.03; 1928 9.09368 29.7989 13.03
619. 1929 9.3576 30.2188 13.03; 1930 8.97912 30.6504 13.03
620. 1931 8.65005 30.2291 13.03; 1932 8.59585 34.1385 13.03
621. 1933 8.24054 34.528 13.03; 1934 8.2177 33.7453 13.03
622. 1935 9.68789 31.4683 13.03; 1936 9.37655 31.0802 13.03
623. 1937 9.62115 30.6491 13.03; 1938 8.27786 29.8407 13.03
624. 1939 8.76638 29.4437 13.03; 1940 9.60715 33.7466 13.03
625. 1941 9.67883 34.585 13.03; 1942 9.3306 34.1642 13.03
626. 1943 9.23363 26.3714 13.03; 1944 9.19556 24.8473 13.03
627. 1945 8.5209 24.8505 13.03; 1946 8.84493 24.452 13.03
628. 1947 8.86962 25.2465 13.03; 1948 9.56315 8.1723 13.03
629. 1949 9.21982 7.77261 13.03; 1950 8.86117 9.73297 13.03
630. 1951 9.21982 10.1274 13.03; 1952 8.53573 10.124 13.03
631. 1953 8.53651 20.1784 13.03; 1954 8.1928 20.568 13.03
632. 1955 9.56355 22.132 13.03; 1956 9.19556 21.7473 13.03
633. 1957 9.54861 21.3504 13.03; 1958 8.84493 21.352 13.03
634. 1959 8.51859 20.9575 13.03; 1960 8.86233 20.5657 13.03
635. 1961 9.18893 20.9588 13.03; 1962 8.1966 12.8371 13.03
636. 1963 8.53964 13.2288 13.03; 1964 9.21982 13.9726 13.03
637. 1965 9.56273 14.3717 13.03; 1966 9.21982 17.0726 13.03
638. 1967 8.86233 17.4657 13.03; 1968 8.53651 17.0784 13.03
639. 1969 9.54861 18.2504 13.03; 1970 9.56355 19.032 13.03
640. 1971 9.19556 18.6473 13.03; 1972 9.68463 29.808 13.03
641. 1973 9.60184 29.3822 13.03; 1974 8.53529 7.77696 13.03
642. 1975 8.86295 8.16539 13.03; 1976 9.56273 5.07173 13.03
643. 1977 9.21982 4.67261 13.03; 1978 8.53964 19.4288 13.03
644. 1979 8.85722 3.53352 13.03; 1980 9.21543 3.92704 13.03
645. 1981 8.53566 3.92493 13.03; 1982 9.54846 8.94992 13.03
646. 1983 9.19358 8.5595 13.03; 1984 9.57692 1.98285 13.03
647. 1985 9.26652 1.59819 13.03; 1986 8.55045 0.299452 13.03
648. 1987 8.19346 0.601121 13.03; 1988 9.60501 0.587311 13.03
649. 1989 9.56273 20.5717 13.03; 1990 9.21982 20.1726 13.03
650. 1991 9.6047 31.915 13.03; 1992 9.19556 12.4473 13.03
651. 1993 9.54861 12.0504 13.03; 1994 8.86962 12.8465 13.03
652. 1995 9.56273 17.4717 13.03; 1996 8.51859 14.7575 13.03
653. 1997 8.18723 15.1509 13.03; 1998 9.32839 33.3249 13.03
654. 1999 9.67872 32.9084 13.03; 2000 8.19244 9.73146 13.03

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile 9841269154

655. 2001 9.56273 9.72827 13.03; 2002 8.56651 1.58231 13.03
656. 2003 8.20334 1.97316 13.03; 2004 9.03216 28.3925 13.03
657. 2005 8.58476 27.9667 13.03; 2006 8.91787 27.5774 13.03
658. 2007 9.314 27.9858 13.03; 2008 8.54611 26.3685 13.03
659. 2009 8.88896 26.7621 13.03; 2010 8.53651 10.8784 13.03
660. 2011 8.1928 11.268 13.03; 2012 8.84493 12.052 13.03
661. 2013 8.51859 11.6575 13.03; 2014 8.86233 11.2657 13.03
662. 2015 9.18893 11.6588 13.03; 2016 8.28038 31.4538 13.03
663. 2017 8.76754 31.8561 13.03; 2018 9.24814 0.283221 13.03
664. 2019 9.22155 19.4334 13.03; 2020 8.86233 14.3657 13.03
665. 2021 9.18893 14.7588 13.03; 2022 8.84493 15.152 13.03
666. 2023 9.54861 15.1504 13.03; 2024 9.21982 23.2726 13.03
667. 2025 8.1966 6.63714 13.03; 2026 8.18723 5.85089 13.03
668. 2027 8.5209 6.25051 13.03; 2028 8.84493 5.85203 13.03
669. 2029 9.19556 6.24732 13.03; 2030 8.86962 6.64654 13.03
670. 2031 9.56273 11.2717 13.03; 2032 9.21982 10.8726 13.03
671. 2033 9.22155 22.5334 13.03; 2034 9.20896 2.36895 13.03
672. 2035 8.85043 2.75554 13.03; 2036 8.53176 2.36635 13.03
673. 2037 8.88918 1.97743 13.03; 2038 8.53651 4.67843 13.03
674. 2039 8.1928 5.06796 13.03; 2040 8.19312 3.53272 13.03
675. 2041 8.53964 7.02883 13.03; 2042 9.54861 5.85044 13.03
676. 2043 9.59605 28.8182 13.03; 2044 8.7212 28.7445 13.03
677. 2045 9.67806 28.3948 13.03; 2046 9.59503 32.4856 13.03
678. 2047 8.22945 32.956 13.03; 2048 8.58833 33.3363 13.03
679. 2049 8.55118 27.1631 13.03; 2050 8.1928 17.468 13.03
680. 2051 8.20352 26.7666 13.03; 2052 8.5209 15.5505 13.03
681. 2053 9.19556 15.5473 13.03; 2054 9.10186 31.4841 13.03
682. 2055 8.65536 31.0668 13.03; 2056 8.23864 28.3438 13.03
683. 2057 8.20956 27.5587 13.03; 2058 8.18881 2.75505 13.03
684. 2059 8.51857 3.149 13.03; 2060 8.86233 5.06571 13.03
685. 2061 9.18893 5.45884 13.03; 2062 8.51859 5.45749 13.03
686. 2063 8.19228 8.1679 13.03; 2064 9.18893 17.8588 13.03
687. 2065 9.03806 32.9172 13.03; 2066 8.72201 32.5565 13.03
688. 2067 8.84493 18.252 13.03; 2068 8.51859 17.8575 13.03
689. 2069 9.18886 9.34124 13.03; 2070 8.51793 8.55686 13.03
690. 2071 8.18418 8.95 13.03; 2072 8.5209 12.4505 13.03; 2073 8.23678 30.6522 13.03
691. 2074 8.86962 19.0465 13.03; 2075 8.93496 33.7406 13.03
692. 2076 8.86962 22.1465 13.03; 2077 8.51534 9.34299 13.03
693. 2078 8.53651 23.2784 13.03; 2079 8.84016 8.94919 13.03
694. 2080 8.18723 12.0509 13.03; 2081 8.86233 23.6657 13.03
695. 2082 8.86962 15.9465 13.03; 2083 8.92793 0.889601 13.03
696. 2084 8.19983 22.5212 13.03; 2085 8.31272 35.6095 13.03
697. 2086 8.31698 36.2374 13.03; 2087 9.22907 36.244 13.03
698. 2088 9.57069 16.3201 13.03; 2089 8.19983 25.6212 13.03
699. 2090 9.57069 13.2201 13.03; 2091 9.54902 3.13934 13.03
700. 2092 9.57069 25.6201 13.03; 2093 9.77195 35.5963 13.03
701. 2094 8.19063 18.6438 13.03; 2095 8.1873 24.0599 13.03
702. 2096 8.19983 16.3212 13.03; 2097 9.55467 24.0623 13.03
703. 2098 9.19225 34.9717 13.03; 2099 8.19063 21.7438 13.03
704. 2100 9.79467 36.2538 13.03; 2101 9.58014 27.1699 13.03
705. 2102 8.19799 13.981 13.03; 2103 9.57069 7.02007 13.03
706. 2104 9.01748 30.2144 13.03; 2105 8.22587 34.1392 13.03
707. 2106 9.65069 31.0607 13.03; 2107 8.30902 29.4643 13.03
708. 2108 9.62803 34.1587 13.03; 2109 9.57682 26.3823 13.03
709. 2110 9.23035 35.5946 13.03; 2111 9.55216 24.8406 13.03
710. 2112 8.84877 24.8485 13.03; 2113 9.5698 7.78296 13.03

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

711. 2114 8.87598 10.1221 13.03; 2115 8.19799 20.181 13.03
712. 2116 9.55216 21.7406 13.03; 2117 8.85024 20.9577 13.03
713. 2118 8.19983 13.2212 13.03; 2119 9.5698 13.983 13.03
714. 2120 8.87598 17.0779 13.03; 2121 9.55216 18.6406 13.03
715. 2122 9.77983 29.3968 13.03; 2123 8.87598 7.77793 13.03
716. 2124 9.5698 4.68296 13.03; 2125 8.19983 19.4212 13.03
717. 2126 8.87403 3.92234 13.03; 2127 9.55588 8.56248 13.03
718. 2128 9.59616 1.59678 13.03; 2129 8.20181 0.300143 13.03
719. 2130 9.61552 0.886438 13.03; 2131 9.5698 20.183 13.03
720. 2132 9.78061 31.899 13.03; 2133 9.2029 29.418 13.03
721. 2134 9.55216 12.4406 13.03; 2135 8.88014 13.2288 13.03
722. 2136 9.5698 17.083 13.03; 2137 8.1873 14.7599 13.03
723. 2138 9.62705 33.3343 13.03; 2139 8.19747 10.1214 13.03
724. 2140 9.5698 10.117 13.03; 2141 8.21387 1.58251 13.03
725. 2142 8.95838 27.9833 13.03; 2143 8.88967 26.3755 13.03
726. 2144 8.19799 10.881 13.03; 2145 8.85024 11.6577 13.03
727. 2146 8.31114 31.8352 13.03; 2147 8.89801 0.293341 13.03
728. 2148 8.20914 0.900129 13.03; 2149 9.57069 19.4201 13.03
729. 2150 8.85024 14.7577 13.03; 2151 9.55467 14.7623 13.03
730. 2152 9.5698 23.283 13.03; 2153 8.19063 6.24379 13.03
731. 2154 8.84877 6.24849 13.03; 2155 9.5698 10.883 13.03
732. 2156 9.57069 22.5201 13.03; 2157 8.87598 20.1779 13.03
733. 2158 9.55467 20.9623 13.03; 2159 9.56757 3.91686 13.03
734. 2160 8.86574 2.36731 13.03; 2161 8.19799 4.68096 13.03
735. 2162 8.19768 3.92187 13.03; 2163 8.19983 7.02119 13.03
736. 2164 9.55216 6.24058 13.03; 2165 9.18626 28.7787 13.03
737. 2166 9.77865 28.8017 13.03; 2167 9.77874 32.4989 13.03
738. 2168 8.2238 33.347 13.03; 2169 9.62169 27.9726 13.03
739. 2170 8.8994 27.1703 13.03; 2171 8.19799 17.081 13.03
740. 2172 8.20324 26.3806 13.03; 2173 8.1873 20.9599 13.03
741. 2174 8.19063 15.5438 13.03; 2175 9.55216 15.5406 13.03
742. 2176 9.56049 2.3678 13.03; 2177 9.03034 31.0728 13.03
743. 2178 8.22091 27.953 13.03; 2179 8.18947 3.14304 13.03
744. 2180 8.85024 5.45774 13.03; 2181 9.55467 5.46227 13.03
745. 2182 8.19765 7.78043 13.03; 2183 9.55467 17.8623 13.03
746. 2184 9.168 32.5327 13.03; 2185 8.85024 17.8577 13.03
747. 2186 9.55052 9.33776 13.03; 2187 8.18688 8.55993 13.03
748. 2188 8.19063 24.8438 13.03; 2189 8.84877 12.4485 13.03
749. 2190 9.59097 0.291747 13.03; 2191 8.20531 27.1622 13.03
750. 2192 8.25678 30.2455 13.03; 2193 9.20995 31.8779 13.03
751. 2194 8.88014 19.4288 13.03; 2195 8.1873 17.8599 13.03
752. 2196 8.96724 33.3207 13.03; 2197 8.97316 34.1512 13.03
753. 2198 8.88014 22.5288 13.03; 2199 8.18688 9.34007 13.03
754. 2200 9.77891 35.0005 13.03; 2201 8.88014 25.6288 13.03
755. 2202 8.87598 10.8779 13.03; 2203 8.19799 23.281 13.03
756. 2204 8.87598 13.9779 13.03; 2205 8.91674 1.58574 13.03
757. 2206 8.84412 9.3417 13.03; 2207 8.88014 7.02876 13.03
758. 2208 8.84811 3.14488 13.03; 2209 8.87598 4.67795 13.03
759. 2210 9.55467 11.6623 13.03; 2211 8.19063 12.4438 13.03
760. 2212 9.64012 30.2331 13.03; 2213 8.87598 23.2779 13.03
761. 2214 8.88014 16.3288 13.03; 2215 8.1873 11.6599 13.03
762. 2216 8.19588 2.36442 13.03; 2217 8.84877 21.7485 13.03
763. 2218 8.85024 24.0577 13.03; 2219 8.25817 31.0532 13.03
764. 2220 8.28851 34.923 13.03; 2221 8.84879 8.55756 13.03
765. 2222 8.84877 18.6485 13.03; 2223 8.84877 15.5485 13.03
766. 2224 8.1873 5.45993 13.03; 2225 8.283 32.5726 13.03



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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

767. 2226 8.28871 28.7344 13.03; 2227 9.92 36.55 13.165; 2228 9.92 36.55 13.75
768. 2229 9.92 36.55 14.595; 2230 9.92 36.2375 14.99; 2231 9.92 35.925 14.99
769. 2232 9.92 35.6125 14.99; 2233 9.92 34.9125 14.99; 2234 9.92 34.525 14.99
770. 2235 9.92 34.1375 14.99; 2236 9.92 33.75 14.99; 2237 9.92 33.3625 14.99
771. 2238 9.92 32.975 14.99; 2239 9.92 32.5875 14.99; 2240 9.92 31.8125 14.99
772. 2241 9.92 31.425 14.99; 2242 9.92 31.0375 14.99; 2243 9.92 30.65 14.99
773. 2244 9.92 30.2625 14.99; 2245 9.92 29.875 14.99; 2246 9.92 29.4875 14.99
774. 2247 9.92 28.7125 14.99; 2248 9.92 28.325 14.99; 2249 9.92 27.9375 14.99
775. 2250 9.92 27.55 14.99; 2251 9.92 27.1625 14.99; 2252 9.92 26.775 14.99
776. 2253 9.92 26.3875 14.99; 2254 9.92 25.6125 14.99; 2255 9.92 25.225 14.99
777. 2256 9.92 24.8375 14.99; 2257 9.92 24.45 14.99; 2258 9.92 24.0625 14.99
778. 2259 9.92 23.675 14.99; 2260 9.92 23.2875 14.99; 2261 9.92 22.5125 14.99
779. 2262 9.92 22.125 14.99; 2263 9.92 21.7375 14.99; 2264 9.92 21.35 14.99
780. 2265 9.92 20.9625 14.99; 2266 9.92 20.575 14.99; 2267 9.92 20.1875 14.99
781. 2268 9.92 19.4125 14.99; 2269 9.92 19.025 14.99; 2270 9.92 18.6375 14.99
782. 2271 9.92 18.25 14.99; 2272 9.92 17.8625 14.99; 2273 9.92 17.475 14.99
783. 2274 9.92 17.0875 14.99; 2275 9.92 16.3125 14.99; 2276 9.92 15.925 14.99
784. 2277 9.92 15.5375 14.99; 2278 9.92 15.15 14.99; 2279 9.92 14.7625 14.99
785. 2280 9.92 14.375 14.99; 2281 9.92 13.9875 14.99; 2282 9.92 13.2125 14.99
786. 2283 9.92 12.825 14.99; 2284 9.92 12.4375 14.99; 2285 9.92 12.05 14.99
787. 2286 9.92 11.6625 14.99; 2287 9.92 11.275 14.99; 2288 9.92 10.8875 14.99
788. 2289 9.92 10.1125 14.99; 2290 9.92 9.725 14.99; 2291 9.92 9.3375 14.99
789. 2292 9.92 8.95 14.99; 2293 9.92 8.5625 14.99; 2294 9.92 8.175 14.99
790. 2295 9.92 7.7875 14.99; 2296 9.92 7.0125 14.99; 2297 9.92 6.625 14.99
791. 2298 9.92 6.2375 14.99; 2299 9.92 5.85 14.99; 2300 9.92 5.4625 14.99
792. 2301 9.92 5.075 14.99; 2302 9.92 4.6875 14.99; 2303 9.92 3.9125 14.99
793. 2304 9.92 3.525 14.99; 2305 9.92 3.1375 14.99; 2306 9.92 2.75 14.99
794. 2307 9.92 2.3625 14.99; 2308 9.92 1.975 14.99; 2309 9.92 1.5875 14.99
795. 2310 9.92 0.9 14.99; 2311 9.92 0.6 14.99; 2312 9.92 0.3 14.99
796. 2313 9.92 0 14.5; 2314 9.92 0 14.01; 2315 9.92 0 13.52; 2316 9.92 1.2 13.165
797. 2317 9.92 1.2 13.75; 2318 9.92 1.2 14.595; 2319 9.92 4.3 14.595
798. 2320 9.92 4.3 13.165; 2321 9.92 4.3 13.75; 2322 9.92 7.4 14.595
799. 2323 9.92 7.4 13.165; 2324 9.92 7.4 13.75; 2325 9.92 10.5 14.595
800. 2326 9.92 10.5 13.165; 2327 9.92 10.5 13.75; 2328 9.92 13.6 14.595
801. 2329 9.92 13.6 13.165; 2330 9.92 13.6 13.75; 2331 9.92 16.7 14.595
802. 2332 9.92 16.7 13.165; 2333 9.92 16.7 13.75; 2334 9.92 19.8 14.595
803. 2335 9.92 19.8 13.165; 2336 9.92 19.8 13.75; 2337 9.92 22.9 14.595
804. 2338 9.92 22.9 13.165; 2339 9.92 22.9 13.75; 2340 9.92 26 14.595
805. 2341 9.92 26 13.165; 2342 9.92 26 13.75; 2343 9.92 29.1 14.595
806. 2344 9.92 29.1 13.165; 2345 9.92 29.1 13.75; 2346 9.92 32.2 14.595
807. 2347 9.92 32.2 13.165; 2348 9.92 32.2 13.75; 2349 9.92 35.3 14.595
808. 2350 9.92 35.3 13.165; 2351 9.92 35.3 13.75; 2352 9.92 34.5463 14.2547
809. 2353 9.92 33.7502 14.2485; 2354 9.92 32.9656 14.2521
810. 2355 9.92 31.4463 14.2537; 2356 9.92 30.65 14.2484; 2357 9.92 29.8655 14.2521
811. 2358 9.92 28.3463 14.2537; 2359 9.92 27.55 14.2484; 2360 9.92 26.7655 14.2521
812. 2361 9.92 25.2409 14.2595; 2362 9.92 24.45 14.2817; 2363 9.92 23.6602 14.2596
813. 2364 9.92 22.1398 14.2595; 2365 9.92 21.35 14.2817; 2366 9.92 20.5602 14.2595
814. 2367 9.92 19.0398 14.2595; 2368 9.92 18.25 14.2817; 2369 9.92 17.4592 14.2595
815. 2370 9.92 15.9463 14.2537; 2371 9.92 15.15 14.2484; 2372 9.92 14.3655 14.2521
816. 2373 9.92 12.8463 14.2537; 2374 9.92 12.05 14.2484; 2375 9.92 11.2655 14.2521
817. 2376 9.92 9.74625 14.2537; 2377 9.92 8.95 14.2484; 2378 9.92 8.16552 14.2521
818. 2379 9.92 6.64626 14.2537; 2380 9.92 5.85 14.2484; 2381 9.92 5.06552 14.2521
819. 2382 9.92 3.54619 14.2536; 2383 9.92 2.74971 14.2485
820. 2384 9.92 1.96533 14.2534; 2385 9.92 33.7523 13.6225; 2386 9.92 30.65 13.6225
821. 2387 9.92 27.55 13.6225; 2388 9.92 24.45 13.6316; 2389 9.92 21.35 13.6225
822. 2390 9.92 18.25 13.6225; 2391 9.92 15.15 13.6225; 2392 9.92 12.05 13.6225

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

823. 2393 9.92 8.95 13.6225; 2394 9.92 5.85 13.6225; 2395 9.92 2.74729 13.6225
824. 2396 9.92 1.96394 13.5808; 2397 9.92 34.5337 13.6014; 2398 9.92 0.6 14.105
825. 2399 9.92 35.9357 14.2354; 2400 9.92 35.9391 13.5103
826. 2401 9.92 28.3337 13.5974; 2402 9.92 31.4337 13.5974
827. 2403 9.92 32.9647 13.5789; 2404 9.92 29.8644 13.5789
828. 2405 9.92 12.8337 13.5974; 2406 9.92 15.9337 13.5974
829. 2407 9.92 14.3644 13.5789; 2408 9.92 6.63366 13.5974
830. 2409 9.92 9.73366 13.5974; 2410 9.92 11.2644 13.5789
831. 2411 9.92 8.16445 13.5789; 2412 9.92 22.1337 13.5974
832. 2413 9.92 25.2337 13.5974; 2414 9.92 26.7644 13.5789
833. 2415 9.92 23.6657 13.5927; 2416 9.92 19.0337 13.5974
834. 2417 9.92 17.4657 13.5924; 2418 9.92 20.5657 13.5924
835. 2419 9.92 5.06445 13.5789; 2420 9.92 3.53354 13.5974; 2421 9.92 24.45 14.6358
836. 2422 9.92 24.0519 14.2677; 2423 9.92 23.6675 14.6217
837. 2424 9.92 34.9257 14.2273; 2425 9.92 34.5357 14.6223
838. 2426 9.92 36.2584 13.4353; 2427 9.92 35.9356 13.8641
839. 2428 9.92 36.2497 14.2138; 2429 9.92 14.7582 13.6099
840. 2430 9.92 14.3602 13.9179; 2431 9.92 14.7553 14.2587; 2432 9.92 15.15 13.9298
841. 2433 9.92 5.06621 14.6204; 2434 9.92 4.68236 14.2274
842. 2435 9.92 19.0321 13.3013; 2436 9.92 19.4209 13.4833; 2437 9.92 19.04 13.9255
843. 2438 9.92 18.6418 13.6099; 2439 9.92 18.25 13.9521; 2440 9.92 18.6481 14.2677
844. 2441 9.92 3.91954 14.2275; 2442 9.92 3.53559 14.6218
845. 2443 9.92 35.9308 13.2577; 2444 9.92 23.2799 14.2275; 2445 9.92 12.832 13.2995
846. 2446 9.92 13.2209 13.4833; 2447 9.92 0.839018 13.3059
847. 2448 9.92 28.3408 13.9185; 2449 9.92 27.9418 13.6099; 2450 9.92 27.5491 13.93
848. 2451 9.92 27.9477 14.2593; 2452 9.92 7.77912 13.4833
849. 2453 9.92 8.16708 13.2904; 2454 9.92 1.96433 14.6224
850. 2455 9.92 1.57842 14.2271; 2456 9.92 12.8408 13.9185
851. 2457 9.92 12.4418 13.6099; 2458 9.92 12.0491 13.93; 2459 9.92 12.4477 14.2593
852. 2460 9.92 18.25 14.6358; 2461 9.92 17.8519 14.2677; 2462 9.92 17.4644 14.6219
853. 2463 9.92 17.8582 13.6099; 2464 9.92 17.46 13.9255; 2465 9.92 35.6197 13.4426
854. 2466 9.92 35.6219 14.2143; 2467 9.92 35.9303 14.6333; 2468 9.92 30.65 14.6025
855. 2469 9.92 30.2553 14.2587; 2470 9.92 29.8662 14.6204
856. 2471 9.92 26.7602 13.9179; 2472 9.92 26.3791 13.4833
857. 2473 9.92 26.3824 14.2274; 2474 9.92 20.5675 14.6217
858. 2475 9.92 20.1799 14.2275; 2476 9.92 24.8481 14.2677
859. 2477 9.92 25.2356 14.6219; 2478 9.92 15.932 13.2995; 2479 9.92 16.3209 13.4833
860. 2480 9.92 19.0356 14.6219; 2481 9.92 26.7662 14.6204
861. 2482 9.92 32.9603 13.9179; 2483 9.92 32.5791 13.4833
862. 2484 9.92 32.5824 14.2274; 2485 9.92 31.4408 13.9185
863. 2486 9.92 31.0418 13.6099; 2487 9.92 30.65 13.9298; 2488 9.92 31.0477 14.2594
864. 2489 9.92 26.7671 13.2904; 2490 9.92 27.1582 13.6099; 2491 9.92 27.55 13.3263
865. 2492 9.92 33.3594 13.61; 2493 9.92 33.3562 14.2587; 2494 9.92 33.75 13.9302
866. 2495 9.92 34.9238 13.4825; 2496 9.92 34.5411 13.9208; 2497 9.92 25.6246 14.227
867. 2498 9.92 7.02392 14.227; 2499 9.92 6.63563 14.6219
868. 2500 9.92 0.299239 14.0574; 2501 9.92 0.579358 13.5113
869. 2502 9.92 1.57893 13.4851; 2503 9.92 1.96685 13.2913
870. 2504 9.92 22.1356 14.6219; 2505 9.92 21.7481 14.2677; 2506 9.92 21.35 14.6358
871. 2507 9.92 20.5675 13.2984; 2508 9.92 20.9582 13.6099; 2509 9.92 21.35 13.3263
872. 2510 9.92 22.5201 14.2275; 2511 9.92 22.1321 13.3013
873. 2512 9.92 22.5209 13.4833; 2513 9.92 9.73201 13.2995
874. 2514 9.92 10.1209 13.4833; 2515 9.92 10.1239 14.227; 2516 9.92 9.73563 14.6219
875. 2517 9.92 11.2662 14.6204; 2518 9.92 10.8824 14.2274
876. 2519 9.92 30.2582 13.6099; 2520 9.92 29.8602 13.9179
877. 2521 9.92 32.9673 13.2905; 2522 9.92 33.7512 13.3263; 2523 9.92 17.0754 14.227
878. 2524 9.92 14.3662 14.6204; 2525 9.92 13.9824 14.2274; 2526 9.92 28.332 13.2995



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3-B, RAMANIYAM GAURAVV - 2
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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

879. 2527 9.92 34.1482 14.2348; 2528 9.92 33.75 14.6025; 2529 9.92 9.34772 14.2593
880. 2530 9.92 8.95 14.6025; 2531 9.92 8.55817 13.6099; 2532 9.92 8.16023 13.9179
881. 2533 9.92 8.55595 14.2588; 2534 9.92 8.94906 13.93; 2535 9.92 20.9519 14.2677
882. 2536 9.92 8.16621 14.6204; 2537 9.92 7.78236 14.2274
883. 2538 9.92 0.899246 14.1524; 2539 9.92 0.598627 14.5812
884. 2540 9.92 19.4201 14.2275; 2541 9.92 29.4824 14.2274
885. 2542 9.92 4.67912 13.4833; 2543 9.92 5.06708 13.2904
886. 2544 9.92 31.4356 14.6219; 2545 9.92 32.9662 14.6203; 2546 9.92 28.7239 14.227
887. 2547 9.92 28.3356 14.6219; 2548 9.92 13.9791 13.4833
888. 2549 9.92 14.3671 13.2904; 2550 9.92 15.5418 13.6099; 2551 9.92 15.15 13.3263
889. 2552 9.92 34.5323 13.3052; 2553 9.92 34.143 13.612; 2554 9.92 9.74079 13.9185
890. 2555 9.92 9.34183 13.6099; 2556 9.92 3.14743 14.2593; 2557 9.92 2.75 14.6025
891. 2558 9.92 1.96023 13.9125; 2559 9.92 29.4791 13.4833
892. 2560 9.92 29.8671 13.2904; 2561 9.92 31.432 13.2995; 2562 9.92 31.8209 13.4833
893. 2563 9.92 31.8239 14.227; 2564 9.92 13.2239 14.227; 2565 9.92 24.0582 13.6145
894. 2566 9.92 23.66 13.9255; 2567 9.92 24.45 13.9566; 2568 9.92 5.45817 13.6099
895. 2569 9.92 5.06023 13.9179; 2570 9.92 5.45595 14.2588; 2571 9.92 5.84906 13.93
896. 2572 9.92 20.56 13.9255; 2573 9.92 21.35 13.9521; 2574 9.92 22.14 13.9255
897. 2575 9.92 11.6582 13.6099; 2576 9.92 11.2602 13.9179
898. 2577 9.92 11.6559 14.2588; 2578 9.92 10.8791 13.4833
899. 2579 9.92 25.2321 13.2992; 2580 9.92 25.6209 13.4833
900. 2581 9.92 2.35183 14.2349; 2582 9.92 3.53185 13.2996
901. 2583 9.92 3.92085 13.4833; 2584 9.92 5.85 14.6025; 2585 9.92 27.55 14.6025
902. 2586 9.92 27.1559 14.2588; 2587 9.92 15.15 14.6025; 2588 9.92 25.24 13.9255
903. 2589 9.92 24.8418 13.6145; 2590 9.92 23.2791 13.4833
904. 2591 9.92 23.6672 13.2961; 2592 9.92 21.7418 13.6099
905. 2593 9.92 17.0791 13.4833; 2594 9.92 17.4675 13.2984
906. 2595 9.92 15.9408 13.9185; 2596 9.92 15.5477 14.2594
907. 2597 9.92 3.54067 13.9185; 2598 9.92 3.14042 13.61; 2599 9.92 2.74893 13.9301
908. 2600 9.92 28.7209 13.4833; 2601 9.92 6.24772 14.2593
909. 2602 9.92 11.2671 13.2904; 2603 9.92 12.05 13.3263; 2604 9.92 6.63201 13.2995
910. 2605 9.92 7.02088 13.4833; 2606 9.92 12.05 14.6025; 2607 9.92 6.64079 13.9185
911. 2608 9.92 6.24183 13.6099; 2609 9.92 2.35681 13.6123
912. 2610 9.92 2.74865 13.3263; 2611 9.92 16.3239 14.227; 2612 9.92 15.9356 14.6219
913. 2613 9.92 8.95 13.3263; 2614 9.92 20.1791 13.4833; 2615 9.92 24.45 13.3308
914. 2616 9.92 12.8356 14.6219; 2617 9.92 30.65 13.3263; 2618 9.92 5.85 13.3263
915. 2619 9.92 18.25 13.3263; 2620 9.92 24.0572 14.6288; 2621 9.92 34.9166 14.6108
916. 2622 9.92 36.2493 13.8095; 2623 9.92 14.755 13.9221; 2624 9.92 4.68136 14.6114
917. 2625 9.92 19.4209 13.2345; 2626 9.92 18.645 13.9388; 2627 9.92 3.9118 14.6088
918. 2628 9.92 36.2448 13.2191; 2629 9.92 23.2863 14.6097; 2630 9.92 13.221 13.2339
919. 2631 9.92 0.980085 13.1769; 2632 9.92 27.945 13.9221
920. 2633 9.92 7.78089 13.2351; 2634 9.92 1.58816 14.6091; 2635 9.92 12.445 13.9221
921. 2636 9.92 17.8572 14.6288; 2637 9.92 17.855 13.9388; 2638 9.92 35.6205 13.8128
922. 2639 9.92 35.6167 14.6114; 2640 9.92 30.2572 14.6122
923. 2641 9.92 26.3763 13.8402; 2642 9.92 20.1863 14.6097
924. 2643 9.92 24.8428 14.6288; 2644 9.92 16.321 13.2339; 2645 9.92 18.6428 14.6288
925. 2646 9.92 26.3814 14.6114; 2647 9.92 32.5763 13.8401; 2648 9.92 31.045 13.9221
926. 2649 9.92 27.1603 13.32; 2650 9.92 33.3556 13.9221; 2651 9.92 34.926 13.8416
927. 2652 9.92 25.6118 14.6089; 2653 9.92 7.01182 14.6089
928. 2654 9.92 0.298934 13.5288; 2655 9.92 1.58088 13.236
929. 2656 9.92 21.7428 14.6288; 2657 9.92 20.9603 13.32; 2658 9.92 22.516 14.6105
930. 2659 9.92 22.5209 13.2345; 2660 9.92 10.121 13.2339; 2661 9.92 10.1118 14.6089
931. 2662 9.92 10.8814 14.6114; 2663 9.92 30.255 13.9221; 2664 9.92 33.3609 13.32
932. 2665 9.92 17.0882 14.6089; 2666 9.92 13.9814 14.6114; 2667 9.92 27.94 13.3174
933. 2668 9.92 34.1428 14.6124; 2669 9.92 9.34281 14.6122
934. 2670 9.92 8.55502 13.9221; 2671 9.92 20.9572 14.6288

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935. 2672 9.92 7.78136 14.6114; 2673 9.92 8.55719 14.6122
936. 2674 9.92 0.897793 14.585; 2675 9.92 0.29981 14.5375; 2676 9.92 19.416 14.6105
937. 2677 9.92 29.4814 14.6114; 2678 9.92 4.68089 13.2351
938. 2679 9.92 31.0428 14.6122; 2680 9.92 32.5814 14.6113
939. 2681 9.92 28.7118 14.6089; 2682 9.92 13.9809 13.2351; 2683 9.92 15.54 13.3174
940. 2684 9.92 34.9229 13.2342; 2685 9.92 34.1456 13.9234
941. 2686 9.92 9.34498 13.9221; 2687 9.92 3.1428 14.6121; 2688 9.92 1.57615 13.8414
942. 2689 9.92 29.4809 13.2351; 2690 9.92 31.821 13.2339; 2691 9.92 31.8118 14.6089
943. 2692 9.92 0.855119 13.6376; 2693 9.92 13.2249 13.8408
944. 2694 9.92 24.055 13.9411; 2695 9.92 5.45502 13.9221; 2696 9.92 20.955 13.9388
945. 2697 9.92 22.525 13.8408; 2698 9.92 11.655 13.9221; 2699 9.92 10.8763 13.8402
946. 2700 9.92 25.621 13.2339; 2701 9.92 2.35716 14.6125; 2702 9.92 3.92101 13.2339
947. 2703 9.92 5.45719 14.6122; 2704 9.92 27.9428 14.6122
948. 2705 9.92 27.1572 14.6122; 2706 9.92 35.6202 13.2136
949. 2707 9.92 14.7572 14.6122; 2708 9.92 24.845 13.9411; 2709 9.92 23.2789 13.2339
950. 2710 9.92 21.745 13.9388; 2711 9.92 17.0788 13.2339; 2712 9.92 15.545 13.9221
951. 2713 9.92 14.7603 13.32; 2714 9.92 3.14426 13.9221; 2715 9.92 28.7249 13.8408
952. 2716 9.92 36.2439 14.6167; 2717 9.92 6.24281 14.6122; 2718 9.92 11.6603 13.32
953. 2719 9.92 7.02104 13.2339; 2720 9.92 11.6572 14.6122; 2721 9.92 12.44 13.3174
954. 2722 9.92 6.24498 13.9221; 2723 9.92 2.35899 13.3163; 2724 9.92 27.155 13.9221
955. 2725 9.92 31.8249 13.8408; 2726 9.92 29.4763 13.8402
956. 2727 9.92 13.9763 13.8402; 2728 9.92 16.3118 14.6089
957. 2729 9.92 9.34001 13.3174; 2730 9.92 10.125 13.8408; 2731 9.92 20.175 13.8408
958. 2732 9.92 25.625 13.8408; 2733 9.92 24.8397 13.3223; 2734 9.92 13.2118 14.6089
959. 2735 9.92 31.04 13.3174; 2736 9.92 12.4428 14.6122; 2737 9.92 6.24001 13.3174
960. 2738 9.92 7.02495 13.8408; 2739 9.92 21.7397 13.32; 2740 9.92 2.35432 13.9236
961. 2741 9.92 23.275 13.8408; 2742 9.92 3.1391 13.3188; 2743 9.92 7.77626 13.8402
962. 2744 9.92 17.8603 13.32; 2745 9.92 18.6397 13.32; 2746 9.92 17.075 13.8408
963. 2747 9.92 34.1405 13.3195; 2748 9.92 33.3572 14.6122; 2749 9.92 28.721 13.2339
964. 2750 9.92 4.67626 13.8402; 2751 9.92 15.5428 14.6122; 2752 9.92 5.46034 13.32
965. 2753 9.92 26.3809 13.2351; 2754 9.92 32.5809 13.2351
966. 2755 9.92 19.4249 13.8408; 2756 9.92 16.3249 13.8408; 2757 9.92 30.2603 13.32
967. 2758 9.92 3.92492 13.8408; 2759 9.92 24.0603 13.3223
968. 2760 9.92 20.1788 13.2339; 2761 9.92 10.8809 13.2351; 2762 9.92 8.56034 13.32
969. 2763 7.86 36.55 13.395; 2764 7.86 36.55 13.76; 2765 7.86 36.55 14.125
970. 2766 7.86 36.55 14.74; 2767 7.86 36.2375 14.99; 2768 7.86 35.925 14.99
971. 2769 7.86 35.6125 14.99; 2770 7.86 34.9125 14.99; 2771 7.86 34.525 14.99
972. 2772 7.86 34.1375 14.99; 2773 7.86 33.75 14.99; 2774 7.86 33.3625 14.99
973. 2775 7.86 32.975 14.99; 2776 7.86 32.5875 14.99; 2777 7.86 31.8125 14.99
974. 2778 7.86 31.425 14.99; 2779 7.86 31.0375 14.99; 2780 7.86 30.65 14.99
975. 2781 7.86 30.2625 14.99; 2782 7.86 29.875 14.99; 2783 7.86 29.4875 14.99
976. 2784 7.86 28.7125 14.99; 2785 7.86 28.325 14.99; 2786 7.86 27.9375 14.99
977. 2787 7.86 27.55 14.99; 2788 7.86 27.1625 14.99; 2789 7.86 26.775 14.99
978. 2790 7.86 26.3875 14.99; 2791 7.86 25.6125 14.99; 2792 7.86 25.225 14.99
979. 2793 7.86 24.8375 14.99; 2794 7.86 24.45 14.99; 2795 7.86 24.0625 14.99
980. 2796 7.86 23.675 14.99; 2797 7.86 23.2875 14.99; 2798 7.86 22.5125 14.99
981. 2799 7.86 22.125 14.99; 2800 7.86 21.7375 14.99; 2801 7.86 21.35 14.99
982. 2802 7.86 20.9625 14.99; 2803 7.86 20.575 14.99; 2804 7.86 20.1875 14.99
983. 2805 7.86 19.4125 14.99; 2806 7.86 19.025 14.99; 2807 7.86 18.6375 14.99
984. 2808 7.86 18.25 14.99; 2809 7.86 17.8625 14.99; 2810 7.86 17.475 14.99
985. 2811 7.86 17.0875 14.99; 2812 7.86 16.3125 14.99; 2813 7.86 15.925 14.99
986. 2814 7.86 15.5375 14.99; 2815 7.86 15.15 14.99; 2816 7.86 14.7625 14.99
987. 2817 7.86 14.375 14.99; 2818 7.86 13.9875 14.99; 2819 7.86 13.2125 14.99
988. 2820 7.86 12.825 14.99; 2821 7.86 12.4375 14.99; 2822 7.86 12.05 14.99
989. 2823 7.86 11.6625 14.99; 2824 7.86 11.275 14.99; 2825 7.86 10.8875 14.99
990. 2826 7.86 10.1125 14.99; 2827 7.86 9.725 14.99; 2828 7.86 9.3375 14.99

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991. 2829 7.86 8.95 14.99; 2830 7.86 8.5625 14.99; 2831 7.86 8.175 14.99
992. 2832 7.86 7.7875 14.99; 2833 7.86 7.0125 14.99; 2834 7.86 6.625 14.99
993. 2835 7.86 6.2375 14.99; 2836 7.86 5.85 14.99; 2837 7.86 5.4625 14.99
994. 2838 7.86 5.075 14.99; 2839 7.86 4.6875 14.99; 2840 7.86 3.9125 14.99
995. 2841 7.86 3.525 14.99; 2842 7.86 3.1375 14.99; 2843 7.86 2.75 14.99
996. 2844 7.86 2.3625 14.99; 2845 7.86 1.975 14.99; 2846 7.86 1.5875 14.99
997. 2847 7.86 0.9 14.99; 2848 7.86 0.6 14.99; 2849 7.86 0.3 14.99
998. 2850 7.86 0 14.5; 2851 7.86 0 14.01; 2852 7.86 0 13.52; 2853 7.86 1.2 14.74
999. 2854 7.86 1.2 14.125; 2855 7.86 1.2 13.76; 2856 7.86 1.2 13.395
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1007. 2878 7.86 19.8 14.125; 2879 7.86 19.8 13.76; 2880 7.86 19.8 13.395
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile:

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1052. 2993 7.86 13.1993 14.4035; 2994 7.86 2.75022 14.6531
1053. 2995 7.86 2.38447 14.3355; 2996 7.86 1.98835 14.6802
1054. 2997 7.86 26.3882 13.7203; 2998 7.86 26.7838 13.3578
1055. 2999 7.86 12.4101 13.6762; 3000 7.86 12.8167 13.36; 3001 7.86 12.0322 13.3486
1056. 3002 7.86 32.9802 13.36; 3003 7.86 33.3809 13.6666; 3004 7.86 33.7617 13.3468
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1061. 3014 7.86 29.8855 14.6732; 3015 7.86 24.8746 13.6794; 3016 7.86 24.4786 13.989
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1070. 3034 7.86 20.2032 14.4064; 3035 7.86 27.5563 14.6604
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1073. 3040 7.86 35.9402 14.0816; 3041 7.86 36.25 14.4493; 3042 7.86 36.2422 13.7406
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1102. 3109 7.86 1.99613 13.3556; 3110 7.86 29.8914 14.0174

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

STAAD SPACE -- PAGE NO. 21

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1103. 3111 7.86 29.4882 13.7203; 3112 7.86 30.6604 13.3471
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1122. 3153 7.86 5.86007 14.6532; 3154 7.86 5.48426 14.3354
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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1206. 3357 7.49 20.1875 17.68; 3358 7.49 20.575 17.68; 3359 7.49 20.9625 17.68
1207. 3360 7.49 21.35 17.68; 3361 7.49 21.7375 17.68; 3362 7.49 22.125 17.68
1208. 3363 7.49 22.5125 17.68; 3364 7.49 23.2875 17.68; 3365 7.49 23.675 17.68
1209. 3366 7.49 24.0625 17.68; 3367 7.49 24.45 17.68; 3368 7.49 24.8375 17.68
1210. 3369 7.49 25.225 17.68; 3370 7.49 25.6125 17.68; 3371 7.49 26.3875 17.68
1211. 3372 7.49 26.775 17.68; 3373 7.49 27.1625 17.68; 3374 7.49 27.55 17.68
1212. 3375 7.49 27.9375 17.68; 3376 7.49 28.325 17.68; 3377 7.49 28.7125 17.68
1213. 3378 7.49 29.4875 17.68; 3379 7.49 29.875 17.68; 3380 7.49 30.2625 17.68
1214. 3381 7.49 30.65 17.68; 3382 7.49 31.0375 17.68; 3383 7.49 31.425 17.68
```

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

1215. 3384 7.49 31.8125 17.68; 3385 7.49 32.5875 17.68; 3386 7.49 32.975 17.68
1216. 3387 7.49 33.3625 17.68; 3388 7.49 33.75 17.68; 3389 7.49 34.1375 17.68
1217. 3390 7.49 34.525 17.68; 3391 7.49 34.9125 17.68; 3392 7.49 35.6125 17.68
1218. 3393 7.49 35.925 17.68; 3394 7.49 36.2375 17.68; 3395 7.49 36.55 18.11
1219. 3396 7.49 36.55 18.54; 3397 7.49 36.55 18.97; 3398 7.49 36.55 19.4
1220. 3399 7.49 36.55 19.83; 3400 7.49 36.2375 20.26; 3401 7.49 35.925 20.26
1221. 3402 7.49 35.6125 20.26; 3403 7.49 34.9125 20.26; 3404 7.49 34.525 20.26
1222. 3405 7.49 34.1375 20.26; 3406 7.49 33.75 20.26; 3407 7.49 33.3625 20.26
1223. 3408 7.49 32.975 20.26; 3409 7.49 32.5875 20.26; 3410 7.49 31.8125 20.26
1224. 3411 7.49 31.425 20.26; 3412 7.49 31.0375 20.26; 3413 7.49 30.65 20.26
1225. 3414 7.49 30.2625 20.26; 3415 7.49 29.875 20.26; 3416 7.49 29.4875 20.26
1226. 3417 7.49 28.7125 20.26; 3418 7.49 28.325 20.26; 3419 7.49 27.9375 20.26
1227. 3420 7.49 27.55 20.26; 3421 7.49 27.1625 20.26; 3422 7.49 26.775 20.26
1228. 3423 7.49 26.3875 20.26; 3424 7.49 25.6125 20.26; 3425 7.49 25.225 20.26
1229. 3426 7.49 24.8375 20.26; 3427 7.49 24.45 20.26; 3428 7.49 24.0625 20.26
1230. 3429 7.49 23.675 20.26; 3430 7.49 23.2875 20.26; 3431 7.49 22.5125 20.26
1231. 3432 7.49 22.125 20.26; 3433 7.49 21.7375 20.26; 3434 7.49 21.35 20.26
1232. 3435 7.49 20.9625 20.26; 3436 7.49 20.575 20.26; 3437 7.49 20.1875 20.26
1233. 3438 7.49 19.4125 20.26; 3439 7.49 19.025 20.26; 3440 7.49 18.6375 20.26
1234. 3441 7.49 18.25 20.26; 3442 7.49 17.8625 20.26; 3443 7.49 17.475 20.26
1235. 3444 7.49 17.0875 20.26; 3445 7.49 16.3125 20.26; 3446 7.49 15.925 20.26
1236. 3447 7.49 15.5375 20.26; 3448 7.49 15.15 20.26; 3449 7.49 14.7625 20.26
1237. 3450 7.49 14.375 20.26; 3451 7.49 13.9875 20.26; 3452 7.49 13.2125 20.26
1238. 3453 7.49 12.825 20.26; 3454 7.49 12.4375 20.26; 3455 7.49 12.05 20.26
1239. 3456 7.49 11.6625 20.26; 3457 7.49 11.275 20.26; 3458 7.49 10.8875 20.26
1240. 3459 7.49 10.1125 20.26; 3460 7.49 9.725 20.26; 3461 7.49 9.3375 20.26
1241. 3462 7.49 8.95 20.26; 3463 7.49 8.5625 20.26; 3464 7.49 8.175 20.26
1242. 3465 7.49 7.7875 20.26; 3466 7.49 7.0125 20.26; 3467 7.49 6.625 20.26
1243. 3468 7.49 6.2375 20.26; 3469 7.49 5.85 20.26; 3470 7.49 5.4625 20.26
1244. 3471 7.49 5.075 20.26; 3472 7.49 4.6875 20.26; 3473 7.49 3.9125 20.26
1245. 3474 7.49 3.525 20.26; 3475 7.49 3.1375 20.26; 3476 7.49 2.75 20.26
1246. 3477 7.49 2.3625 20.26; 3478 7.49 1.975 20.26; 3479 7.49 1.5875 20.26
1247. 3480 7.49 0.9 20.26; 3481 7.49 0.6 20.26; 3482 7.49 0.3 20.26
1248. 3483 7.49 0 19.83; 3484 7.49 0 19.4; 3485 7.49 0 18.97; 3486 7.49 0 18.54
1249. 3487 7.49 0 18.11; 3488 7.49 1.2 19.83; 3489 7.49 1.2 19.4
1250. 3490 7.49 1.2 18.97; 3491 7.49 1.2 18.54; 3492 7.49 1.2 18.11
1251. 3493 7.49 4.3 19.83; 3494 7.49 4.3 19.4; 3495 7.49 4.3 18.97
1252. 3496 7.49 4.3 18.54; 3497 7.49 4.3 18.11; 3498 7.49 7.4 19.83
1253. 3499 7.49 7.4 19.4; 3500 7.49 7.4 18.97; 3501 7.49 7.4 18.54
1254. 3502 7.49 7.4 18.11; 3503 7.49 10.5 19.83; 3504 7.49 10.5 19.4
1255. 3505 7.49 10.5 18.97; 3506 7.49 10.5 18.54; 3507 7.49 10.5 18.11
1256. 3508 7.49 13.6 19.83; 3509 7.49 13.6 19.4; 3510 7.49 13.6 18.97
1257. 3511 7.49 13.6 18.54; 3512 7.49 13.6 18.11; 3513 7.49 16.7 19.83
1258. 3514 7.49 16.7 19.4; 3515 7.49 16.7 18.97; 3516 7.49 16.7 18.54
1259. 3517 7.49 16.7 18.11; 3518 7.49 19.8 19.83; 3519 7.49 19.8 19.4
1260. 3520 7.49 19.8 18.97; 3521 7.49 19.8 18.54; 3522 7.49 19.8 18.11
1261. 3523 7.49 22.9 19.83; 3524 7.49 22.9 19.4; 3525 7.49 22.9 18.97
1262. 3526 7.49 22.9 18.54; 3527 7.49 22.9 18.11; 3528 7.49 26 19.83
1263. 3529 7.49 26 19.4; 3530 7.49 26 18.97; 3531 7.49 26 18.54; 3532 7.49 26 18.11
1264. 3533 7.49 29.1 19.83; 3534 7.49 29.1 19.4; 3535 7.49 29.1 18.97
1265. 3536 7.49 29.1 18.54; 3537 7.49 29.1 18.11; 3538 7.49 32.2 19.83
1266. 3539 7.49 32.2 19.4; 3540 7.49 32.2 18.97; 3541 7.49 32.2 18.54
1267. 3542 7.49 32.2 18.11; 3543 7.49 35.3 19.83; 3544 7.49 35.3 19.4
1268. 3545 7.49 35.3 18.97; 3546 7.49 35.3 18.54; 3547 7.49 35.3 18.11
1269. 3548 7.49 34.5184 19.4004; 3549 7.49 33.7506 19.3943
1270. 3550 7.49 32.9818 19.3961; 3551 7.49 34.5188 18.5378; 3552 7.49 33.7493 18.533

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

1271. 3553 7.49 31.4178 19.3987; 3554 7.49 32.9817 18.5319; 3555 7.49 30.6494 19.397
1272. 3556 7.49 29.8823 19.3978; 3557 7.49 31.4191 18.5352
1273. 3558 7.49 30.6514 18.5357; 3559 7.49 28.3172 19.403; 3560 7.49 29.8824 18.5338
1274. 3561 7.49 27.5497 19.3999; 3562 7.49 26.7822 19.3964
1275. 3563 7.49 28.3172 18.5347; 3564 7.49 27.5491 18.5361; 3565 7.49 25.217 19.3975
1276. 3566 7.49 26.7814 18.5331; 3567 7.49 24.4489 19.4001
1277. 3568 7.49 23.6823 19.4007; 3569 7.49 25.2183 18.5304
1278. 3570 7.49 24.4509 18.5286; 3571 7.49 22.1186 19.4047
1279. 3572 7.49 23.6829 18.5339; 3573 7.49 21.35 19.4054; 3574 7.49 20.5816 19.4008
1280. 3575 7.49 22.1174 18.5401; 3576 7.49 21.3506 18.5424
1281. 3577 7.49 19.0171 19.4169; 3578 7.49 20.5835 18.5308
1282. 3579 7.49 18.2497 19.4132; 3580 7.49 17.4814 19.4031
1283. 3581 7.49 19.0154 18.5439; 3582 7.49 18.2492 18.5485
1284. 3583 7.49 15.9171 19.4007; 3584 7.49 17.4813 18.5412
1285. 3585 7.49 15.1504 19.3965; 3586 7.49 14.3819 19.4009; 3587 7.49 15.918 18.5347
1286. 3588 7.49 15.15 18.536; 3589 7.49 12.8187 19.4105; 3590 7.49 14.3819 18.5392
1287. 3591 7.49 12.049 19.4078; 3592 7.49 11.2807 19.4043; 3593 7.49 12.8167 18.5435
1288. 3594 7.49 12.046 18.5429; 3595 7.49 9.71916 19.4035; 3596 7.49 11.2798 18.5356
1289. 3597 7.49 8.9502 19.4034; 3598 7.49 8.18188 19.4021; 3599 7.49 9.71782 18.5392
1290. 3600 7.49 8.95 18.5434; 3601 7.49 6.61857 19.4038; 3602 7.49 8.18122 18.5387
1291. 3603 7.49 5.85032 19.4077; 3604 7.49 5.08085 19.4023
1292. 3605 7.49 6.61804 18.5403; 3606 7.49 5.85023 18.5443; 3607 7.49 3.51924 19.404
1293. 3608 7.49 5.08172 18.5393; 3609 7.49 2.75068 19.401; 3610 7.49 1.98263 19.3988
1294. 3611 7.49 3.51813 18.5375; 3612 7.49 2.75115 18.5373; 3613 7.49 1.9831 18.5302
1295. 3614 7.49 0.599911 18.5211; 3615 7.49 35.9251 19.4124
1296. 3616 7.49 35.925 18.5252; 3617 7.49 0.600001 19.4056
1297. 3618 7.49 0.89674 19.4011; 3619 7.49 0.60004 19.8452
1298. 3620 7.49 20.1949 19.3991; 3621 7.49 20.5831 18.9638
1299. 3622 7.49 20.1952 18.5344; 3623 7.49 35.925 18.97; 3624 7.49 36.2364 19.4098
1300. 3625 7.49 36.2365 18.5322; 3626 7.49 35.925 18.0918; 3627 7.49 14.3788 19.8317
1301. 3628 7.49 13.9961 19.4001; 3629 7.49 12.4323 19.4092
1302. 3630 7.49 12.0498 19.8348; 3631 7.49 12.8219 19.8379; 3632 7.49 8.56651 18.541
1303. 3633 7.49 8.94997 18.1113; 3634 7.49 8.17866 18.1084
1304. 3635 7.49 2.75083 18.1082; 3636 7.49 3.13313 18.5383
1305. 3637 7.49 3.52237 18.1066; 3638 7.49 9.33339 18.5407
1306. 3639 7.49 9.72221 18.1074; 3640 7.49 35.9246 19.847; 3641 7.49 35.6135 18.532
1307. 3642 7.49 19.0198 18.1067; 3643 7.49 19.4024 18.5413; 3644 7.49 20.58 18.1033
1308. 3645 7.49 22.1212 18.1076; 3646 7.49 21.3508 18.1111
1309. 3647 7.49 21.7331 18.5419; 3648 7.49 25.2216 18.1026
1310. 3649 7.49 25.6054 18.5355; 3650 7.49 15.1499 18.1066
1311. 3651 7.49 15.5322 18.5349; 3652 7.49 15.9213 18.104; 3653 7.49 25.2205 19.831
1312. 3654 7.49 24.8307 19.3991; 3655 7.49 24.4491 19.8311
1313. 3656 7.49 34.1334 19.3978; 3657 7.49 33.7504 19.8277
1314. 3658 7.49 34.5223 19.8321; 3659 7.49 24.8324 18.5282
1315. 3660 7.49 24.4501 18.9644; 3661 7.49 25.2175 18.9613
1316. 3662 7.49 32.9789 19.8311; 3663 7.49 32.5955 19.3967
1317. 3664 7.49 20.9687 18.5374; 3665 7.49 22.5031 18.5399
1318. 3666 7.49 23.6787 19.8323; 3667 7.49 24.0671 19.4002; 3668 7.49 26.7792 19.83
1319. 3669 7.49 26.3955 19.3967; 3670 7.49 16.3043 18.5361
1320. 3671 7.49 7.00483 19.4022; 3672 7.49 6.62172 19.8353
1321. 3673 7.49 2.74993 19.8319; 3674 7.49 2.3686 19.3997; 3675 7.49 1.97922 19.8325
1322. 3676 7.49 29.8795 19.83; 3677 7.49 29.4955 19.399; 3678 7.49 34.5218 18.106
1323. 3679 7.49 34.9067 18.5396; 3680 7.49 28.3212 19.8337
1324. 3681 7.49 27.9318 19.4018; 3682 7.49 27.55 19.8303; 3683 7.49 30.6493 19.8293
1325. 3684 7.49 30.2667 19.397; 3685 7.49 28.321 18.1043; 3686 7.49 28.704 18.5364
1326. 3687 7.49 28.7045 19.4016; 3688 7.49 35.6133 19.406; 3689 7.49 25.6038 19.3984

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841260138

1327. 3690 7.49 24.4506 18.103; 3691 7.49 11.6655 19.4055; 3692 7.49 12.0479 18.9753
1328. 3693 7.49 11.6644 18.539; 3694 7.49 11.2809 18.9698; 3695 7.49 8.17849 19.8339
1329. 3696 7.49 7.79394 19.4012; 3697 7.49 10.103 18.5398
1330. 3698 7.49 0.599807 18.9609; 3699 7.49 0.895805 18.5274
1331. 3700 7.49 12.0482 18.1106; 3701 7.49 11.2772 18.1052
1332. 3702 7.49 33.3674 19.3952; 3703 7.49 33.7494 18.9627
1333. 3704 7.49 33.3663 18.5309; 3705 7.49 32.9819 18.9613; 3706 7.49 12.821 18.108
1334. 3707 7.49 13.2042 18.5428; 3708 7.49 13.2028 19.4052; 3709 7.49 17.478 18.1064
1335. 3710 7.49 17.8668 18.5443; 3711 7.49 18.2495 18.1127; 3712 7.49 17.0948 18.541
1336. 3713 7.49 27.5493 18.1063; 3714 7.49 27.9318 18.5358
1337. 3715 7.49 8.94996 19.8329; 3716 7.49 8.5682 19.4026; 3717 7.49 5.07794 19.834
1338. 3718 7.49 4.69324 19.4003; 3719 7.49 6.62126 18.1088
1339. 3720 7.49 7.00453 18.5401; 3721 7.49 1.98226 18.9608
1340. 3722 7.49 1.59808 18.5348; 3723 7.49 1.59565 19.3992
1341. 3724 7.49 0.600012 18.0888; 3725 7.49 20.5783 19.834
1342. 3726 7.49 31.4223 18.1058; 3727 7.49 31.8047 18.5378
1343. 3728 7.49 3.90427 18.5389; 3729 7.49 5.07782 18.1078
1344. 3730 7.49 5.46674 18.5416; 3731 7.49 5.85014 18.1119; 3732 7.49 31.805 19.3991
1345. 3733 7.49 31.4212 19.8323; 3734 7.49 29.496 18.5361; 3735 7.49 29.8789 18.104
1346. 3736 7.49 15.1501 19.8284; 3737 7.49 14.7669 19.3991
1347. 3738 7.49 17.4776 19.8327; 3739 7.49 17.0954 19.4009
1348. 3740 7.49 14.3818 18.9715; 3741 7.49 13.9943 18.5397
1349. 3742 7.49 33.7497 18.1054; 3743 7.49 32.978 18.1044; 3744 7.49 7.79568 18.5399
1350. 3745 7.49 8.18061 18.9683; 3746 7.49 3.51955 18.9684
1351. 3747 7.49 3.90475 19.4023; 3748 7.49 26.7821 18.9624
1352. 3749 7.49 26.3957 18.5362; 3750 7.49 26.7781 18.1049
1353. 3751 7.49 27.1669 18.5343; 3752 7.49 10.8951 18.5375
1354. 3753 7.49 31.4196 18.9639; 3754 7.49 29.882 18.9667; 3755 7.49 19.016 18.9839
1355. 3756 7.49 19.4043 19.4086; 3757 7.49 16.3837 19.4004
1356. 3758 7.49 15.9216 19.8329; 3759 7.49 15.1505 18.9654
1357. 3760 7.49 15.5334 19.3989; 3761 7.49 15.9183 18.9695; 3762 7.49 23.2954 18.536
1358. 3763 7.49 23.679 18.1046; 3764 7.49 19.0211 19.841; 3765 7.49 18.1048 19.4022
1359. 3766 7.49 9.72186 19.8346; 3767 7.49 11.2782 19.8364; 3768 7.49 18.8945 19.404
1360. 3769 7.49 22.5048 19.4022; 3770 7.49 22.1218 19.8352
1361. 3771 7.49 23.2968 19.4001; 3772 7.49 0.303711 18.5272
1362. 3773 7.49 3.52176 19.8346; 3774 7.49 3.13333 19.4024
1363. 3775 7.49 1.97916 18.1029; 3776 7.49 4.69568 18.5398
1364. 3777 7.49 6.23361 18.5422; 3778 7.49 32.5966 18.5362
1365. 3779 7.49 17.4817 18.9743; 3780 7.49 21.3503 19.8365
1366. 3781 7.49 20.9666 19.4032; 3782 7.49 2.36858 18.534; 3783 7.49 30.2689 18.5344
1367. 3784 7.49 30.6512 18.1065; 3785 7.49 31.0334 18.536; 3786 7.49 34.9044 19.4001
1368. 3787 7.49 5.84989 19.8349; 3788 7.49 5.46702 19.4044; 3789 7.49 34.132 18.5355
1369. 3790 7.49 34.5182 18.9699; 3791 7.49 6.61927 18.9701
1370. 3792 7.49 6.23342 19.4054; 3793 7.49 8.95011 18.9733
1371. 3794 7.49 9.33264 19.4034; 3795 7.49 9.71947 18.9691
1372. 3796 7.49 27.5497 18.9675; 3797 7.49 28.3178 18.9711; 3798 7.49 24.069 18.531
1373. 3799 7.49 5.08213 18.9706; 3800 7.49 5.85043 18.9755
1374. 3801 7.49 18.6297 18.5472; 3802 7.49 27.1672 19.3983
1375. 3803 7.49 18.6331 19.4139; 3804 7.49 18.2499 19.8369
1376. 3805 7.49 22.1182 18.9701; 3806 7.49 14.3789 18.1077; 3807 7.49 12.4288 18.544
1377. 3808 7.49 17.8656 19.4078; 3809 7.49 31.0322 19.3974
1378. 3810 7.49 18.2494 18.9811; 3811 7.49 14.7682 18.5376
1379. 3812 7.49 21.7328 19.4066; 3813 7.49 12.8177 18.9804
1380. 3814 7.49 30.6503 18.9647; 3815 7.49 2.75086 18.9685
1381. 3816 7.49 0.303299 19.4019; 3817 7.49 23.6827 18.9684
1382. 3818 7.49 21.3502 18.9744; 3819 7.49 0.895743 19.8402

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

1383. 3820 7.49 20.1959 18.9656; 3821 7.49 36.2369 18.9701
1384. 3822 7.49 36.2363 18.0992; 3823 7.49 13.9924 19.8315; 3824 7.49 12.435 19.8359
1385. 3825 7.49 8.5647 18.1095; 3826 7.49 3.13591 18.1085; 3827 7.49 9.3351 18.1101
1386. 3828 7.49 36.2341 19.843; 3829 7.49 35.6142 18.0981; 3830 7.49 19.4068 18.1084
1387. 3831 7.49 20.1924 18.1049; 3832 7.49 21.7349 18.1112
1388. 3833 7.49 25.6087 18.1065; 3834 7.49 15.5345 18.1052
1389. 3835 7.49 24.8334 19.8311; 3836 7.49 34.1353 19.8292
1390. 3837 7.49 24.8316 18.9626; 3838 7.49 32.5924 19.8305
1391. 3839 7.49 20.9665 18.1076; 3840 7.49 22.5071 18.1084
1392. 3841 7.49 24.0647 19.8315; 3842 7.49 26.3925 19.8302
1393. 3843 7.49 16.3085 18.1054; 3844 7.49 7.00991 19.8325
1394. 3845 7.49 2.36531 19.8323; 3846 7.49 29.4929 19.8306
1395. 3847 7.49 34.9098 18.1089; 3848 7.49 27.9347 19.832; 3849 7.49 30.2647 19.8295
1396. 3850 7.49 28.7095 18.1068; 3851 7.49 28.7087 19.8315
1397. 3852 7.49 35.6137 19.8406; 3853 7.49 25.6051 18.9658
1398. 3854 7.49 24.8355 18.1035; 3855 7.49 11.6654 18.9724
1399. 3856 7.49 7.79008 19.8319; 3857 7.49 10.1073 18.1085
1400. 3858 7.49 0.896242 18.9631; 3859 7.49 11.6636 18.1082
1401. 3860 7.49 33.3671 18.9606; 3861 7.49 33.3658 19.8289
1402. 3862 7.49 13.2075 18.1092; 3863 7.49 13.2082 19.834; 3864 7.49 17.8651 18.1103
1403. 3865 7.49 17.0919 18.1082; 3866 7.49 27.9341 18.1054; 3867 7.49 8.5655 19.8334
1404. 3868 7.49 4.6901 19.8311; 3869 7.49 7.00722 18.1089; 3870 7.49 1.59609 18.9657
1405. 3871 7.49 0.895826 18.0952; 3872 7.49 20.1917 19.8323
1406. 3873 7.49 31.8093 18.1084; 3874 7.49 3.90791 18.1083
1407. 3875 7.49 5.46514 18.1105; 3876 7.49 31.808 19.8316; 3877 7.49 29.4912 18.1065
1408. 3878 7.49 14.7649 19.8304; 3879 7.49 17.0908 19.8307
1409. 3880 7.49 13.9938 18.9705; 3881 7.49 33.364 18.1043; 3882 7.49 7.79347 18.97
1410. 3883 7.49 3.90545 18.9696; 3884 7.49 26.3951 18.9653
1411. 3885 7.49 27.1646 18.1059; 3886 7.49 10.8904 18.1079
1412. 3887 7.49 31.8057 18.9673; 3888 7.49 29.4952 18.968; 3889 7.49 19.4027 18.9768
1413. 3890 7.49 16.3085 19.831; 3891 7.49 15.533 18.9672; 3892 7.49 23.2912 18.1065
1414. 3893 7.49 7.79151 18.109; 3894 7.49 19.4085 19.8363; 3895 7.49 10.1099 19.8325
1415. 3896 7.49 10.8914 19.8339; 3897 7.49 22.5099 19.8325
1416. 3898 7.49 23.2926 19.8316; 3899 7.49 0.304318 18.0954
1417. 3900 7.49 3.13494 19.8331; 3901 7.49 1.59233 18.1062; 3902 7.49 4.69149 18.109
1418. 3903 7.49 6.23526 18.1104; 3904 7.49 32.5913 18.107; 3905 7.49 15.5352 19.8304
1419. 3906 7.49 17.0942 18.972; 3907 7.49 26.391 18.1073; 3908 7.49 28.9646 19.8344
1420. 3909 7.49 2.36584 18.1057; 3910 7.49 30.2662 18.1055
1421. 3911 7.49 31.0359 18.1065; 3912 7.49 34.9085 19.831; 3913 7.49 3.90987 19.8326
1422. 3914 7.49 5.46454 19.8343; 3915 7.49 25.6075 19.831; 3916 7.49 34.135 18.1057
1423. 3917 7.49 34.1326 18.967; 3918 7.49 7.00564 18.9703; 3919 7.49 6.23503 19.8352
1424. 3920 7.49 9.33289 18.9724; 3921 7.49 27.9318 18.9689
1425. 3922 7.49 24.0661 18.1034; 3923 7.49 5.46755 18.9731
1426. 3924 7.49 18.6333 18.1111; 3925 7.49 27.1653 19.8304; 3926 7.49 18.635 19.8394
1427. 3927 7.49 22.505 18.9702; 3928 7.49 13.9916 18.1083; 3929 7.49 12.4334 18.11
1428. 3930 7.49 17.864 19.8346; 3931 7.49 34.9058 18.9703; 3932 7.49 31.0338 19.8299
1429. 3933 7.49 1.59206 19.832; 3934 7.49 4.69403 18.9693; 3935 7.49 17.8669 18.9784
1430. 3936 7.49 14.766 18.1077; 3937 7.49 11.6645 19.8362; 3938 7.49 9.33424 19.833
1431. 3939 7.49 21.735 19.8357; 3940 7.49 10.8949 18.9698; 3941 7.49 13.2041 18.975
1432. 3942 7.49 30.268 18.9649; 3943 7.49 12.431 18.9781; 3944 7.49 28.7039 18.9701
1433. 3945 7.49 2.36852 18.9658; 3946 7.49 27.1674 18.9652
1434. 3947 7.49 0.304462 19.8399; 3948 7.49 6.23337 18.973
1435. 3949 7.49 16.3049 18.9693; 3950 7.49 14.7675 18.9688
1436. 3951 7.49 23.2954 18.9689; 3952 7.49 32.595 18.9651; 3953 7.49 18.6314 18.9828
1437. 3954 7.49 10.1052 18.9699; 3955 7.49 21.7328 18.973; 3956 7.49 24.0683 18.9662
1438. 3957 7.49 20.9677 18.9702; 3958 7.49 0.303598 18.9643

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9884128154

1439. 3959 7.49 8.56727 18.9716; 3960 7.49 31.0331 18.9651
1440. 3961 7.49 3.13319 18.9698; 3962 7.49 35.6125 18.97; 3963 9.74 0.3 17.68
1441. 3964 9.74 0.6 17.68; 3965 9.74 0.9 17.68; 3966 9.74 1.5875 17.68
1442. 3967 9.74 1.975 17.68; 3968 9.74 2.3625 17.68; 3969 9.74 2.75 17.68
1443. 3970 9.74 3.1375 17.68; 3971 9.74 3.525 17.68; 3972 9.74 3.9125 17.68
1444. 3973 9.74 4.6875 17.68; 3974 9.74 5.075 17.68; 3975 9.74 5.4625 17.68
1445. 3976 9.74 5.85 17.68; 3977 9.74 6.2375 17.68; 3978 9.74 6.625 17.68
1446. 3979 9.74 7.0125 17.68; 3980 9.74 7.7875 17.68; 3981 9.74 8.175 17.68
1447. 3982 9.74 8.5625 17.68; 3983 9.74 8.95 17.68; 3984 9.74 9.3375 17.68
1448. 3985 9.74 9.725 17.68; 3986 9.74 10.1125 17.68; 3987 9.74 10.8875 17.68
1449. 3988 9.74 11.275 17.68; 3989 9.74 11.6625 17.68; 3990 9.74 12.05 17.68
1450. 3991 9.74 12.4375 17.68; 3992 9.74 12.825 17.68; 3993 9.74 13.2125 17.68
1451. 3994 9.74 13.9875 17.68; 3995 9.74 14.375 17.68; 3996 9.74 14.7625 17.68
1452. 3997 9.74 15.15 17.68; 3998 9.74 15.5375 17.68; 3999 9.74 15.925 17.68
1453. 4000 9.74 16.3125 17.68; 4001 9.74 17.0875 17.68; 4002 9.74 17.475 17.68
1454. 4003 9.74 17.8625 17.68; 4004 9.74 18.25 17.68; 4005 9.74 18.6375 17.68
1455. 4006 9.74 19.025 17.68; 4007 9.74 19.4125 17.68; 4008 9.74 20.1875 17.68
1456. 4009 9.74 20.575 17.68; 4010 9.74 20.9625 17.68; 4011 9.74 21.35 17.68
1457. 4012 9.74 21.7375 17.68; 4013 9.74 22.125 17.68; 4014 9.74 22.5125 17.68
1458. 4015 9.74 23.2875 17.68; 4016 9.74 23.675 17.68; 4017 9.74 24.0625 17.68
1459. 4018 9.74 24.45 17.68; 4019 9.74 24.8375 17.68; 4020 9.74 25.225 17.68
1460. 4021 9.74 25.6125 17.68; 4022 9.74 26.3875 17.68; 4023 9.74 26.775 17.68
1461. 4024 9.74 27.1625 17.68; 4025 9.74 27.55 17.68; 4026 9.74 27.9375 17.68
1462. 4027 9.74 28.325 17.68; 4028 9.74 28.7125 17.68; 4029 9.74 29.4875 17.68
1463. 4030 9.74 29.875 17.68; 4031 9.74 30.2625 17.68; 4032 9.74 30.65 17.68
1464. 4033 9.74 31.0375 17.68; 4034 9.74 31.425 17.68; 4035 9.74 31.8125 17.68
1465. 4036 9.74 32.5875 17.68; 4037 9.74 32.975 17.68; 4038 9.74 33.3625 17.68
1466. 4039 9.74 33.75 17.68; 4040 9.74 34.1375 17.68; 4041 9.74 34.525 17.68
1467. 4042 9.74 34.9125 17.68; 4043 9.74 35.6125 17.68; 4044 9.74 35.925 17.68
1468. 4045 9.74 36.2375 17.68; 4046 9.74 36.55 18.11; 4047 9.74 36.55 18.54
1469. 4048 9.74 36.55 18.97; 4049 9.74 36.55 19.4; 4050 9.74 36.55 19.83
1470. 4051 9.74 36.2375 20.26; 4052 9.74 35.925 20.26; 4053 9.74 35.6125 20.26
1471. 4054 9.74 34.9125 20.26; 4055 9.74 34.525 20.26; 4056 9.74 34.1375 20.26
1472. 4057 9.74 33.75 20.26; 4058 9.74 33.3625 20.26; 4059 9.74 32.975 20.26
1473. 4060 9.74 32.5875 20.26; 4061 9.74 31.8125 20.26; 4062 9.74 31.425 20.26
1474. 4063 9.74 31.0375 20.26; 4064 9.74 30.65 20.26; 4065 9.74 30.2625 20.26
1475. 4066 9.74 29.875 20.26; 4067 9.74 29.4875 20.26; 4068 9.74 28.7125 20.26
1476. 4069 9.74 28.325 20.26; 4070 9.74 27.9375 20.26; 4071 9.74 27.55 20.26
1477. 4072 9.74 27.1625 20.26; 4073 9.74 26.775 20.26; 4074 9.74 26.3875 20.26
1478. 4075 9.74 25.6125 20.26; 4076 9.74 25.225 20.26; 4077 9.74 24.8375 20.26
1479. 4078 9.74 24.45 20.26; 4079 9.74 24.0625 20.26; 4080 9.74 23.675 20.26
1480. 4081 9.74 23.2875 20.26; 4082 9.74 22.5125 20.26; 4083 9.74 22.125 20.26
1481. 4084 9.74 21.7375 20.26; 4085 9.74 21.35 20.26; 4086 9.74 20.9625 20.26
1482. 4087 9.74 20.575 20.26; 4088 9.74 20.1875 20.26; 4089 9.74 19.4125 20.26
1483. 4090 9.74 19.025 20.26; 4091 9.74 18.6375 20.26; 4092 9.74 18.25 20.26
1484. 4093 9.74 17.8625 20.26; 4094 9.74 17.475 20.26; 4095 9.74 17.0875 20.26
1485. 4096 9.74 16.3125 20.26; 4097 9.74 15.925 20.26; 4098 9.74 15.5375 20.26
1486. 4099 9.74 15.15 20.26; 4100 9.74 14.7625 20.26; 4101 9.74 14.375 20.26
1487. 4102 9.74 13.9875 20.26; 4103 9.74 13.2125 20.26; 4104 9.74 12.825 20.26
1488. 4105 9.74 12.4375 20.26; 4106 9.74 12.05 20.26; 4107 9.74 11.6625 20.26
1489. 4108 9.74 11.275 20.26; 4109 9.74 10.8875 20.26; 4110 9.74 10.1125 20.26
1490. 4111 9.74 9.725 20.26; 4112 9.74 9.3375 20.26; 4113 9.74 8.95 20.26
1491. 4114 9.74 8.5625 20.26; 4115 9.74 8.175 20.26; 4116 9.74 7.7875 20.26
1492. 4117 9.74 7.0125 20.26; 4118 9.74 6.625 20.26; 4119 9.74 6.2375 20.26
1493. 4120 9.74 5.85 20.26; 4121 9.74 5.4625 20.26; 4122 9.74 5.075 20.26
1494. 4123 9.74 4.6875 20.26; 4124 9.74 3.9125 20.26; 4125 9.74 3.525 20.26

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

1495. 4126 9.74 3.1375 20.26; 4127 9.74 2.75 20.26; 4128 9.74 2.3625 20.26
1496. 4129 9.74 1.975 20.26; 4130 9.74 1.5875 20.26; 4131 9.74 0.9 20.26
1497. 4132 9.74 0.6 20.26; 4133 9.74 0.3 20.26; 4134 9.74 0 19.83; 4135 9.74 0 19.4
1498. 4136 9.74 0 18.97; 4137 9.74 0 18.54; 4138 9.74 0 18.11; 4139 9.74 1.2 19.83
1499. 4140 9.74 1.2 19.4; 4141 9.74 1.2 18.97; 4142 9.74 1.2 18.54
1500. 4143 9.74 1.2 18.11; 4144 9.74 4.3 19.83; 4145 9.74 4.3 19.4
1501. 4146 9.74 4.3 18.97; 4147 9.74 4.3 18.54; 4148 9.74 4.3 18.11
1502. 4149 9.74 7.4 19.83; 4150 9.74 7.4 19.4; 4151 9.74 7.4 18.97
1503. 4152 9.74 7.4 18.54; 4153 9.74 7.4 18.11; 4154 9.74 10.5 19.83
1504. 4155 9.74 10.5 19.4; 4156 9.74 10.5 18.97; 4157 9.74 10.5 18.54
1505. 4158 9.74 10.5 18.11; 4159 9.74 13.6 19.83; 4160 9.74 13.6 19.4
1506. 4161 9.74 13.6 18.97; 4162 9.74 13.6 18.54; 4163 9.74 13.6 18.11
1507. 4164 9.74 16.7 19.83; 4165 9.74 16.7 19.4; 4166 9.74 16.7 18.97
1508. 4167 9.74 16.7 18.54; 4168 9.74 16.7 18.11; 4169 9.74 19.8 19.83
1509. 4170 9.74 19.8 19.4; 4171 9.74 19.8 18.97; 4172 9.74 19.8 18.54
1510. 4173 9.74 19.8 18.11; 4174 9.74 22.9 19.83; 4175 9.74 22.9 19.4
1511. 4176 9.74 22.9 18.97; 4177 9.74 22.9 18.54; 4178 9.74 22.9 18.11
1512. 4179 9.74 26 19.83; 4180 9.74 26 19.4; 4181 9.74 26 18.97; 4182 9.74 26 18.54
1513. 4183 9.74 26 18.11; 4184 9.74 29.1 19.83; 4185 9.74 29.1 19.4
1514. 4186 9.74 29.1 18.97; 4187 9.74 29.1 18.54; 4188 9.74 29.1 18.11
1515. 4189 9.74 32.2 19.83; 4190 9.74 32.2 19.4; 4191 9.74 32.2 18.97
1516. 4192 9.74 32.2 18.54; 4193 9.74 32.2 18.11; 4194 9.74 35.3 19.83
1517. 4195 9.74 35.3 19.4; 4196 9.74 35.3 18.97; 4197 9.74 35.3 18.54
1518. 4198 9.74 35.3 18.11; 4199 9.74 34.5184 19.4004; 4200 9.74 33.7506 19.3943
1519. 4201 9.74 32.9818 19.3961; 4202 9.74 34.5188 18.5378; 4203 9.74 33.7493 18.533
1520. 4204 9.74 31.4178 19.3987; 4205 9.74 32.9817 18.5319; 4206 9.74 30.6494 19.397
1521. 4207 9.74 29.8823 19.3978; 4208 9.74 31.4191 18.5352
1522. 4209 9.74 30.6514 18.5357; 4210 9.74 28.3172 19.403; 4211 9.74 29.8824 18.5338
1523. 4212 9.74 27.5497 19.3999; 4213 9.74 26.7822 19.3964
1524. 4214 9.74 28.3172 18.5347; 4215 9.74 27.5491 18.5361; 4216 9.74 25.217 19.3975
1525. 4217 9.74 26.7814 18.5331; 4218 9.74 24.4489 19.4001
1526. 4219 9.74 23.6823 19.4007; 4220 9.74 25.2183 18.5304
1527. 4221 9.74 24.4509 18.5286; 4222 9.74 22.1186 19.4047
1528. 4223 9.74 23.6829 18.5339; 4224 9.74 21.35 19.4054; 4225 9.74 20.5816 19.4008
1529. 4226 9.74 22.1174 18.5401; 4227 9.74 21.3506 18.5424
1530. 4228 9.74 19.0171 19.4169; 4229 9.74 20.5835 18.5308
1531. 4230 9.74 18.2497 19.4132; 4231 9.74 17.4814 19.4031
1532. 4232 9.74 19.0154 18.5439; 4233 9.74 18.2492 18.5485
1533. 4234 9.74 15.9171 19.4007; 4235 9.74 17.4813 18.5412
1534. 4236 9.74 15.1504 19.3965; 4237 9.74 14.3819 19.4009; 4238 9.74 15.918 18.5347
1535. 4239 9.74 15.15 18.536; 4240 9.74 12.8187 19.4105; 4241 9.74 14.3819 18.5392
1536. 4242 9.74 12.049 19.4078; 4243 9.74 11.2807 19.4043; 4244 9.74 12.8167 18.5435
1537. 4245 9.74 12.046 18.5429; 4246 9.74 9.71916 19.4035; 4247 9.74 11.2798 18.5356
1538. 4248 9.74 8.9502 19.4034; 4249 9.74 8.18188 19.4021; 4250 9.74 9.71782 18.5392
1539. 4251 9.74 8.95 18.5434; 4252 9.74 6.61857 19.4038; 4253 9.74 8.18122 18.5387
1540. 4254 9.74 5.85032 19.4077; 4255 9.74 5.08085 19.4023
1541. 4256 9.74 6.61804 18.5403; 4257 9.74 5.85023 18.5443; 4258 9.74 3.51924 19.404
1542. 4259 9.74 5.08172 18.5393; 4260 9.74 2.75068 19.401; 4261 9.74 1.98263 19.3988
1543. 4262 9.74 3.51813 18.5375; 4263 9.74 2.75115 18.5373; 4264 9.74 1.9831 18.5302
1544. 4265 9.74 0.599911 18.5211; 4266 9.74 35.9251 19.4124
1545. 4267 9.74 35.925 18.5252; 4268 9.74 0.600001 19.4056
1546. 4269 9.74 0.89674 19.4011; 4270 9.74 0.60004 19.8452
1547. 4271 9.74 20.1949 19.3991; 4272 9.74 20.5831 18.9638
1548. 4273 9.74 20.1952 18.5344; 4274 9.74 35.925 18.97; 4275 9.74 36.2364 19.4098
1549. 4276 9.74 36.2365 18.5322; 4277 9.74 35.925 18.0918; 4278 9.74 14.3788 19.8317
1550. 4279 9.74 13.9961 19.4001; 4280 9.74 12.4323 19.4092



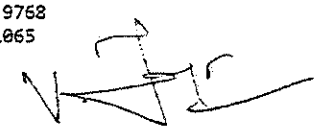
V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

1551. 4281 9.74 12.0498 19.8348; 4282 9.74 12.8219 19.8379; 4283 9.74 8.56651 18.541
1552. 4284 9.74 8.94997 18.1113; 4285 9.74 8.17866 18.1084
1553. 4286 9.74 2.75083 18.1082; 4287 9.74 3.13313 18.5383
1554. 4288 9.74 3.52237 18.1066; 4289 9.74 9.33339 18.5407
1555. 4290 9.74 9.72221 18.1074; 4291 9.74 35.9246 19.847; 4292 9.74 35.6135 18.532
1556. 4293 9.74 19.0198 18.1067; 4294 9.74 19.4024 18.5413; 4295 9.74 20.58 18.1033
1557. 4296 9.74 22.1212 18.1076; 4297 9.74 21.3508 18.1111
1558. 4298 9.74 21.7331 18.5419; 4299 9.74 25.2216 18.1026
1559. 4300 9.74 25.6054 18.5355; 4301 9.74 15.1499 18.1066
1560. 4302 9.74 15.5322 18.5349; 4303 9.74 15.9213 18.104; 4304 9.74 25.2205 19.831
1561. 4305 9.74 24.8307 19.3991; 4306 9.74 24.4491 19.8311
1562. 4307 9.74 34.1334 19.3978; 4308 9.74 33.7504 19.8277
1563. 4309 9.74 34.5223 19.8321; 4310 9.74 24.8324 18.5282
1564. 4311 9.74 24.4501 18.9644; 4312 9.74 25.2175 18.9613
1565. 4313 9.74 32.9789 19.8311; 4314 9.74 32.5955 19.3967
1566. 4315 9.74 20.9687 18.5374; 4316 9.74 22.5031 18.5399
1567. 4317 9.74 23.6787 19.8323; 4318 9.74 24.0671 19.4002; 4319 9.74 26.7792 19.83
1568. 4320 9.74 26.3955 19.3967; 4321 9.74 16.3043 18.5361
1569. 4322 9.74 7.00483 19.4022; 4323 9.74 6.62172 19.8353
1570. 4324 9.74 2.74993 19.8319; 4325 9.74 2.3686 19.3997; 4326 9.74 1.97922 19.8325
1571. 4327 9.74 29.8795 19.83; 4328 9.74 29.4955 19.399; 4329 9.74 34.5218 18.106
1572. 4330 9.74 34.9067 18.5396; 4331 9.74 28.3212 19.8337
1573. 4332 9.74 27.9318 19.4018; 4333 9.74 27.55 19.8303; 4334 9.74 30.6493 19.8293
1574. 4335 9.74 30.2667 19.397; 4336 9.74 28.321 18.1043; 4337 9.74 28.704 18.5364
1575. 4338 9.74 28.7045 19.4016; 4339 9.74 35.6133 19.406; 4340 9.74 25.6038 19.3984
1576. 4341 9.74 24.4506 18.103; 4342 9.74 11.6655 19.4055; 4343 9.74 12.0479 18.9753
1577. 4344 9.74 11.6644 18.539; 4345 9.74 11.2809 18.9698; 4346 9.74 8.17849 19.8339
1578. 4347 9.74 7.79394 19.4012; 4348 9.74 10.103 18.5398
1579. 4349 9.74 0.599807 18.9609; 4350 9.74 0.895805 18.5274
1580. 4351 9.74 12.0482 18.1106; 4352 9.74 11.2772 18.1052
1581. 4353 9.74 33.3674 19.3952; 4354 9.74 33.7494 18.9627
1582. 4355 9.74 33.3663 18.5309; 4356 9.74 32.9819 18.9613; 4357 9.74 12.821 18.108
1583. 4358 9.74 13.2042 18.5428; 4359 9.74 13.2028 19.4052; 4360 9.74 17.478 18.1064
1584. 4361 9.74 17.8668 18.5443; 4362 9.74 18.2495 18.1127; 4363 9.74 17.0948 18.541
1585. 4364 9.74 27.5493 18.1063; 4365 9.74 27.9318 18.5358
1586. 4366 9.74 8.94996 19.8329; 4367 9.74 8.5682 19.4026; 4368 9.74 5.07794 19.834
1587. 4369 9.74 4.69324 19.4003; 4370 9.74 6.62126 18.1088
1588. 4371 9.74 7.00453 18.5401; 4372 9.74 1.98226 18.9608
1589. 4373 9.74 1.59808 18.5348; 4374 9.74 1.59565 19.3992
1590. 4375 9.74 0.600012 18.0888; 4376 9.74 20.5783 19.834
1591. 4377 9.74 31.4223 18.1058; 4378 9.74 31.8047 18.5378
1592. 4379 9.74 3.90427 18.5389; 4380 9.74 5.07782 18.1078
1593. 4381 9.74 5.46674 18.5416; 4382 9.74 5.85014 18.1119; 4383 9.74 31.805 19.3991
1594. 4384 9.74 31.4212 19.8323; 4385 9.74 29.496 18.5361; 4386 9.74 29.8789 18.104
1595. 4387 9.74 15.1501 19.8284; 4388 9.74 14.7669 19.3991
1596. 4389 9.74 17.4776 19.8327; 4390 9.74 17.0954 19.4009
1597. 4391 9.74 14.3818 18.9715; 4392 9.74 13.9943 18.5397
1598. 4393 9.74 33.7497 18.1054; 4394 9.74 32.978 18.1044; 4395 9.74 7.79568 18.5399
1599. 4396 9.74 8.18061 18.9683; 4397 9.74 3.51955 18.9684
1600. 4398 9.74 3.90475 19.4023; 4399 9.74 26.7821 18.9624
1601. 4400 9.74 26.3957 18.5362; 4401 9.74 26.7781 18.1049
1602. 4402 9.74 27.1669 18.5343; 4403 9.74 10.8951 18.5375
1603. 4404 9.74 31.4196 18.9639; 4405 9.74 29.882 18.9667; 4406 9.74 19.016 18.9839
1604. 4407 9.74 19.4043 19.4086; 4408 9.74 16.3037 19.4004
1605. 4409 9.74 15.9216 19.8329; 4410 9.74 15.1505 18.9654
1606. 4411 9.74 15.5334 19.3989; 4412 9.74 15.9183 18.9695; 4413 9.74 23.2954 18.536



V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

1607. 4414 9.74 23.679 18.1046; 4415 9.74 19.0211 19.841; 4416 9.74 10.1048 19.4022
1608. 4417 9.74 9.72186 19.8346; 4418 9.74 11.2782 19.8364; 4419 9.74 10.8945 19.404
1609. 4420 9.74 22.5048 19.4022; 4421 9.74 22.1218 19.8352
1610. 4422 9.74 23.2968 19.4001; 4423 9.74 0.303711 18.5272
1611. 4424 9.74 3.52176 19.8346; 4425 9.74 3.13333 19.4024
1612. 4426 9.74 1.97916 18.1029; 4427 9.74 4.69568 18.5398
1613. 4428 9.74 6.23361 18.5422; 4429 9.74 32.5966 18.5362
1614. 4430 9.74 17.4817 18.9743; 4431 9.74 21.3503 19.8365
1615. 4432 9.74 20.9666 19.4032; 4433 9.74 2.36858 18.534; 4434 9.74 30.2689 18.5344
1616. 4435 9.74 30.6512 18.1065; 4436 9.74 31.0334 18.536; 4437 9.74 34.9044 19.4001
1617. 4438 9.74 5.84989 19.8349; 4439 9.74 5.46702 19.4044; 4440 9.74 34.132 18.5355
1618. 4441 9.74 34.5182 18.9699; 4442 9.74 6.61927 18.9701
1619. 4443 9.74 6.23342 19.4054; 4444 9.74 8.95011 18.9733
1620. 4445 9.74 9.33264 19.4034; 4446 9.74 9.71947 18.9691
1621. 4447 9.74 27.5497 18.9675; 4448 9.74 28.3178 18.9711; 4449 9.74 24.069 18.531
1622. 4450 9.74 5.08213 18.9706; 4451 9.74 5.85043 18.9755
1623. 4452 9.74 18.6297 18.5472; 4453 9.74 27.1672 19.3983
1624. 4454 9.74 18.6331 19.4139; 4455 9.74 18.2499 19.8369
1625. 4456 9.74 22.1182 18.9701; 4457 9.74 14.3789 18.1077; 4458 9.74 12.4288 18.544
1626. 4459 9.74 17.8656 19.4078; 4460 9.74 31.0322 19.3974
1627. 4461 9.74 18.2494 18.9811; 4462 9.74 14.7682 18.5376
1628. 4463 9.74 21.7328 19.4066; 4464 9.74 12.8177 18.9804
1629. 4465 9.74 30.6503 18.9647; 4466 9.74 2.75086 18.9685
1630. 4467 9.74 0.303299 19.4019; 4468 9.74 23.6827 18.9684
1631. 4469 9.74 21.3502 18.9744; 4470 9.74 0.895743 19.8402
1632. 4471 9.74 20.1959 18.9656; 4472 9.74 36.2369 18.9701
1633. 4473 9.74 36.2363 18.0992; 4474 9.74 13.9924 19.8315; 4475 9.74 12.435 19.8359
1634. 4476 9.74 8.5647 18.1095; 4477 9.74 3.13591 18.1085; 4478 9.74 9.3351 18.1101
1635. 4479 9.74 36.2341 19.843; 4480 9.74 35.6142 18.0981; 4481 9.74 19.4068 18.1084
1636. 4482 9.74 20.1924 18.1049; 4483 9.74 21.7349 18.1112
1637. 4484 9.74 25.6087 18.1065; 4485 9.74 15.5345 18.1052
1638. 4486 9.74 24.8334 19.8311; 4487 9.74 34.1353 19.8292
1639. 4488 9.74 24.8316 18.9626; 4489 9.74 32.5924 19.8305
1640. 4490 9.74 20.9665 18.1076; 4491 9.74 22.5071 18.1084
1641. 4492 9.74 24.0647 19.8315; 4493 9.74 26.3925 19.8302
1642. 4494 9.74 16.3085 18.1064; 4495 9.74 7.00991 19.8325
1643. 4496 9.74 2.36531 19.8323; 4497 9.74 29.4929 19.8306
1644. 4498 9.74 34.9098 18.1089; 4499 9.74 27.9347 19.832; 4500 9.74 30.2647 19.8295
1645. 4501 9.74 28.7095 18.1068; 4502 9.74 28.7087 19.8315
1646. 4503 9.74 35.6137 19.8406; 4504 9.74 25.6051 18.9658
1647. 4505 9.74 24.8355 18.1035; 4506 9.74 11.6654 18.9724
1648. 4507 9.74 7.79008 19.8319; 4508 9.74 10.1073 18.1085
1649. 4509 9.74 0.896242 18.9631; 4510 9.74 11.6636 18.1082
1650. 4511 9.74 33.3671 18.9606; 4512 9.74 33.3658 19.8289
1651. 4513 9.74 13.2075 18.1092; 4514 9.74 13.2082 19.834; 4515 9.74 17.8651 18.1103
1652. 4516 9.74 17.0919 18.1082; 4517 9.74 27.9341 18.1054; 4518 9.74 8.5655 19.8334
1653. 4519 9.74 4.6901 19.8311; 4520 9.74 7.00722 18.1089; 4521 9.74 1.59609 18.9657
1654. 4522 9.74 0.895826 18.0952; 4523 9.74 20.1917 19.8323
1655. 4524 9.74 31.8093 18.1084; 4525 9.74 3.90791 18.1083
1656. 4526 9.74 5.46514 18.1105; 4527 9.74 31.808 19.8316; 4528 9.74 29.4912 18.1065
1657. 4529 9.74 14.7649 19.8304; 4530 9.74 17.0908 19.8307
1658. 4531 9.74 13.9938 18.9705; 4532 9.74 33.364 18.1043; 4533 9.74 7.79347 18.97
1659. 4534 9.74 3.90545 18.9696; 4535 9.74 26.3951 18.9653
1660. 4536 9.74 27.1646 18.1059; 4537 9.74 10.8904 18.1079
1661. 4538 9.74 31.8057 18.9673; 4539 9.74 29.4952 18.968; 4540 9.74 19.4027 18.9768
1662. 4541 9.74 16.3085 19.831; 4542 9.74 15.533 18.9672; 4543 9.74 23.2912 18.1065



V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269138

1663. 4544 9.74 7.79151 18.109; 4545 9.74 19.4085 19.8363; 4546 9.74 10.1099 19.8325
1664. 4547 9.74 10.8914 19.8339; 4548 9.74 22.5099 19.8325
1665. 4549 9.74 23.2926 19.8316; 4550 9.74 0.304318 18.0954
1666. 4551 9.74 3.13494 19.8331; 4552 9.74 1.59233 18.1062; 4553 9.74 4.69149 18.109
1667. 4554 9.74 6.23526 18.1104; 4555 9.74 32.5913 18.107; 4556 9.74 15.5352 19.8304
1668. 4557 9.74 17.0942 18.972; 4558 9.74 26.391 18.1073; 4559 9.74 20.9646 19.8344
1669. 4560 9.74 2.36584 18.1057; 4561 9.74 30.2662 18.1055
1670. 4562 9.74 31.0359 18.1065; 4563 9.74 34.9085 19.831; 4564 9.74 3.90987 19.8326
1671. 4565 9.74 5.46454 19.8343; 4566 9.74 25.6075 19.831; 4567 9.74 34.135 18.1057
1672. 4568 9.74 34.1326 18.967; 4569 9.74 7.00564 18.9703; 4570 9.74 6.23503 19.8352
1673. 4571 9.74 9.33289 18.9724; 4572 9.74 27.9318 18.9689
1674. 4573 9.74 24.0661 18.1034; 4574 9.74 5.46755 18.9731
1675. 4575 9.74 18.6333 18.1111; 4576 9.74 27.1653 19.8304; 4577 9.74 18.635 19.8394
1676. 4578 9.74 22.505 18.9702; 4579 9.74 13.9916 18.1083; 4580 9.74 12.4334 18.11
1677. 4581 9.74 17.864 19.8346; 4582 9.74 34.9058 18.9703; 4583 9.74 31.0338 19.8299
1678. 4584 9.74 1.59206 19.832; 4585 9.74 4.69403 18.9693; 4586 9.74 17.8669 18.9784
1679. 4587 9.74 14.766 18.1077; 4588 9.74 11.6645 19.8362; 4589 9.74 9.33424 19.833
1680. 4590 9.74 21.735 19.8357; 4591 9.74 10.8949 18.9698; 4592 9.74 13.2041 18.975
1681. 4593 9.74 30.268 18.9649; 4594 9.74 12.431 18.9781; 4595 9.74 28.7039 18.9701
1682. 4596 9.74 2.36852 18.9658; 4597 9.74 27.1674 18.9652
1683. 4598 9.74 0.304462 19.8399; 4599 9.74 6.23337 18.973
1684. 4600 9.74 16.3049 18.9693; 4601 9.74 14.7675 18.9688
1685. 4602 9.74 23.2954 18.9689; 4603 9.74 32.595 18.9651; 4604 9.74 18.6314 18.9828
1686. 4605 9.74 10.1052 18.9699; 4606 9.74 21.7328 18.973; 4607 9.74 24.0683 18.9662
1687. 4608 9.74 20.9677 18.9702; 4609 9.74 0.303598 18.9643
1688. 4610 9.74 8.56727 18.9716; 4611 9.74 31.0331 18.9651
1689. 4612 9.74 3.13319 18.9698; 4613 9.74 35.6125 18.97; 4614 7.865 36.55 20.26
1690. 4615 8.24 36.55 20.26; 4616 8.615 36.55 20.26; 4617 8.99 36.55 20.26
1691. 4618 9.365 36.55 20.26; 4619 9.365 0 20.26; 4620 8.99 0 20.26
1692. 4621 8.615 0 20.26; 4622 8.24 0 20.26; 4623 7.865 0 20.26
1693. 4624 7.7675 1.2 20.26; 4625 8.045 1.2 20.26; 4626 8.3225 1.2 20.26
1694. 4627 8.885 1.2 20.26; 4628 9.17 1.2 20.26; 4629 9.455 1.2 20.26
1695. 4630 7.865 4.3 20.26; 4631 8.24 4.3 20.26; 4632 8.615 4.3 20.26
1696. 4633 8.99 4.3 20.26; 4634 9.365 4.3 20.26; 4635 7.865 7.4 20.26
1697. 4636 8.24 7.4 20.26; 4637 8.615 7.4 20.26; 4638 8.99 7.4 20.26
1698. 4639 9.365 7.4 20.26; 4640 7.865 10.5 20.26; 4641 8.24 10.5 20.26
1699. 4642 8.615 10.5 20.26; 4643 8.99 10.5 20.26; 4644 9.365 10.5 20.26
1700. 4645 7.865 13.6 20.26; 4646 8.24 13.6 20.26; 4647 8.615 13.6 20.26
1701. 4648 8.99 13.6 20.26; 4649 9.365 13.6 20.26; 4650 7.865 16.7 20.26
1702. 4651 8.24 16.7 20.26; 4652 8.615 16.7 20.26; 4653 8.99 16.7 20.26
1703. 4654 9.365 16.7 20.26; 4655 7.865 19.8 20.26; 4656 8.24 19.8 20.26
1704. 4657 8.615 19.8 20.26; 4658 8.99 19.8 20.26; 4659 9.365 19.8 20.26
1705. 4660 7.865 22.9 20.26; 4661 8.24 22.9 20.26; 4662 8.615 22.9 20.26
1706. 4663 8.99 22.9 20.26; 4664 9.365 22.9 20.26; 4665 7.865 26 20.26
1707. 4666 8.24 26 20.26; 4667 8.615 26 20.26; 4668 8.99 26 20.26
1708. 4669 9.365 26 20.26; 4670 7.865 29.1 20.26; 4671 8.24 29.1 20.26
1709. 4672 8.615 29.1 20.26; 4673 8.99 29.1 20.26; 4674 9.365 29.1 20.26
1710. 4675 7.865 32.2 20.26; 4676 8.24 32.2 20.26; 4677 8.615 32.2 20.26
1711. 4678 8.99 32.2 20.26; 4679 9.365 32.2 20.26; 4680 7.865 35.3 20.26
1712. 4681 8.24 35.3 20.26; 4682 8.615 35.3 20.26; 4683 8.99 35.3 20.26
1713. 4684 9.365 35.3 20.26; 4685 8.99816 35.925 20.26; 4686 8.23268 35.925 20.26
1714. 4687 8.99123 34.5262 20.26; 4688 8.98687 33.7489 20.26
1715. 4689 8.98783 32.9722 20.26; 4690 8.24005 34.5263 20.26
1716. 4691 8.23816 33.7487 20.26; 4692 8.98872 31.4275 20.26
1717. 4693 8.24063 32.9721 20.26; 4694 8.99254 30.6502 20.26
1718. 4695 8.99175 29.8732 20.26; 4696 8.23964 31.4269 20.26

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841209454

1719. 4697 8.24294 30.6501 20.26; 4698 8.98725 28.3272 20.26
1720. 4699 8.24159 29.8735 20.26; 4700 8.98725 27.5499 20.26
1721. 4701 8.98973 26.7733 20.26; 4702 8.24025 28.3276 20.26
1722. 4703 8.23741 27.55 20.26; 4704 8.98846 25.2266 20.26
1723. 4705 8.23906 26.7731 20.26; 4706 8.98717 24.4499 20.26
1724. 4707 8.99011 23.6733 20.26; 4708 8.23829 25.2269 20.26
1725. 4709 8.23642 24.4502 20.26; 4710 8.98984 22.1268 20.26
1726. 4711 8.23926 23.6732 20.26; 4712 8.98723 21.3499 20.26
1727. 4713 8.99036 20.5731 20.26; 4714 8.23922 22.1268 20.26
1728. 4715 8.23738 21.3498 20.26; 4716 8.99074 19.0268 20.26
1729. 4717 8.24128 20.5725 20.26; 4718 8.99358 18.2498 20.26
1730. 4719 8.99074 17.4732 20.26; 4720 8.23989 19.0267 20.26
1731. 4721 8.24267 18.2501 20.26; 4722 8.99074 15.9268 20.26
1732. 4723 8.24012 17.4732 20.26; 4724 8.99358 15.1498 20.26
1733. 4725 8.99171 14.3731 20.26; 4726 8.23989 15.9267 20.26
1734. 4727 8.24283 15.1501 20.26; 4728 8.98839 12.8265 20.26
1735. 4729 8.24154 14.3734 20.26; 4730 8.98604 12.0498 20.26
1736. 4731 8.98733 11.2724 20.26; 4732 8.23824 12.8269 20.26
1737. 4733 8.23779 12.0499 20.26; 4734 8.99072 9.72675 20.26
1738. 4735 8.24036 11.2723 20.26; 4736 8.99358 8.94982 20.26
1739. 4737 8.99205 8.17251 20.26; 4738 8.23989 9.72652 20.26
1740. 4739 8.2427 8.94982 20.26; 4740 8.98982 6.62679 20.26
1741. 4741 8.24316 8.17291 20.26; 4742 8.98655 5.84984 20.26
1742. 4743 8.98734 5.07236 20.26; 4744 8.2392 6.62677 20.26
1743. 4745 8.23787 5.84989 20.26; 4746 8.99617 3.5264 20.26
1744. 4747 8.24036 5.07231 20.26; 4748 9.00095 2.74595 20.26
1745. 4749 9.03193 1.9715 20.26; 4750 8.25083 3.52288 20.26
1746. 4751 8.25375 2.72373 20.26; 4752 9.05053 0.621577 20.26
1747. 4753 8.26055 1.81274 20.26; 4754 8.31531 0.66426 20.26
1748. 4755 7.86456 22.1261 20.26; 4756 8.23974 22.5145 20.26
1749. 4757 8.99452 36.2362 20.26; 4758 9.37534 35.925 20.26
1750. 4759 8.99489 35.6139 20.26; 4760 8.23927 25.6146 20.26
1751. 4761 7.86407 25.2262 20.26; 4762 8.2408 13.985 20.26
1752. 4763 7.86577 14.3742 20.26; 4764 8.09109 1.51964 20.26
1753. 4765 7.87729 1.94426 20.26; 4766 9.36353 24.45 20.26
1754. 4767 9.36423 25.2258 20.26; 4768 8.98733 24.8382 20.26
1755. 4769 8.23603 35.6136 20.26; 4770 7.85519 35.925 20.26
1756. 4771 8.27909 0.327035 20.26; 4772 7.89383 0.604985 20.26
1757. 4773 9.4035 0.610878 20.26; 4774 9.01718 0.316797 20.26
1758. 4775 9.36536 19.0262 20.26; 4776 8.9902 19.4151 20.26
1759. 4777 8.23793 24.0617 20.26; 4778 8.61491 23.6733 20.26
1760. 4779 8.9886 24.0619 20.26; 4780 8.61131 24.45 20.26; 4781 8.98918 13.215 20.26
1761. 4782 9.3642 12.8258 20.26; 4783 7.86498 15.9259 20.26
1762. 4784 8.23984 16.3149 20.26; 4785 8.9892 25.615 20.26
1763. 4786 7.86408 33.7494 20.26; 4787 8.23928 34.1376 20.26
1764. 4788 7.86507 34.5258 20.26; 4789 8.9905 34.9142 20.26
1765. 4790 9.36556 34.5255 20.26; 4791 7.86379 21.3498 20.26
1766. 4792 8.23838 21.7383 20.26; 4793 8.2398 23.2849 20.26
1767. 4794 7.86464 23.6738 20.26; 4795 8.61528 35.925 20.26
1768. 4796 8.24069 28.7154 20.26; 4797 7.86542 28.3266 20.26
1769. 4798 8.61868 15.15 20.26; 4799 8.24267 14.7618 20.26
1770. 4800 8.61688 14.373 20.26; 4801 8.99297 14.7614 20.26
1771. 4802 8.98997 7.01512 20.26; 4803 9.36484 6.62603 20.26
1772. 4804 9.36594 29.8738 20.26; 4805 8.99076 29.4854 20.26
1773. 4806 8.24022 34.9143 20.26; 4807 8.24107 31.0383 20.26
1774. 4808 7.86504 31.4261 20.26; 4809 7.86651 30.65 20.26



V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

1775. 4810 9.36494 26.7741 20.26; 4811 8.98995 26.3855 20.26
1776. 4812 8.23628 36.2365 20.26; 4813 9.36601 8.17343 20.26
1777. 4814 8.9912 7.78491 20.26; 4815 8.23987 10.1144 20.26
1778. 4816 7.86497 9.72585 20.26; 4817 8.61507 9.72664 20.26
1779. 4818 8.99019 10.1151 20.26; 4819 9.38597 1.97325 20.26
1780. 4820 9.10722 1.59724 20.26; 4821 8.12024 0.922454 20.26
1781. 4822 8.24147 20.1845 20.26; 4823 7.86578 20.5734 20.26
1782. 4824 8.61571 20.5724 20.26; 4825 8.98898 20.9617 20.26
1783. 4826 8.61244 21.3499 20.26; 4827 8.23965 20.9611 20.26
1784. 4828 9.36485 22.126 20.26; 4829 8.98998 22.5151 20.26
1785. 4830 9.36302 12.0499 20.26; 4831 8.9871 11.6614 20.26
1786. 4832 9.36343 11.2737 20.26; 4833 9.3635 32.9735 20.26
1787. 4834 8.98896 32.5847 20.26; 4835 7.86405 12.8262 20.26
1788. 4836 8.23924 13.2146 20.26; 4837 9.36593 14.3738 20.26
1789. 4838 8.99073 13.9854 20.26; 4839 9.36679 18.2499 20.26
1790. 4840 8.9918 17.8615 20.26; 4841 9.36542 17.4738 20.26
1791. 4842 8.99207 18.6383 20.26; 4843 8.98869 28.715 20.26
1792. 4844 9.36322 28.3261 20.26; 4845 7.86682 8.17392 20.26
1793. 4846 8.2418 7.78519 20.26; 4847 9.36337 5.07361 20.26
1794. 4848 8.98884 4.68479 20.26; 4849 9.36496 20.5739 20.26
1795. 4850 9.3636 21.3499 20.26; 4851 7.86498 19.0259 20.26
1796. 4852 8.23984 19.4149 20.26; 4853 7.87419 2.73849 20.26
1797. 4854 8.25297 3.12712 20.26; 4855 7.87146 3.52293 20.26
1798. 4856 9.36679 8.94991 20.26; 4857 8.9927 8.56129 20.26
1799. 4858 8.6854 0.615098 20.26; 4859 9.10579 0.891641 20.26
1800. 4860 8.2456 3.91364 20.26; 4861 8.99033 20.1847 20.26
1801. 4862 8.24085 32.5844 20.26; 4863 7.86562 32.9733 20.26
1802. 4864 8.98853 31.8155 20.26; 4865 9.36421 31.4266 20.26
1803. 4866 8.61429 31.4276 20.26; 4867 8.61775 30.6501 20.26
1804. 4868 8.99037 31.0389 20.26; 4869 7.86579 29.8742 20.26
1805. 4870 8.24274 30.2619 20.26; 4871 7.86553 11.2733 20.26
1806. 4872 8.23906 11.6612 20.26; 4873 7.86416 12.0497 20.26
1807. 4874 8.23691 12.4384 20.26; 4875 8.99024 17.0855 20.26
1808. 4876 7.86647 15.15 20.26; 4877 8.2414 15.5381 20.26
1809. 4878 8.61561 34.5263 20.26; 4879 8.61231 33.7489 20.26
1810. 4880 8.98916 34.1373 20.26; 4881 7.86665 8.94983 20.26
1811. 4882 8.2434 8.56147 20.26; 4883 9.36535 9.72622 20.26
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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
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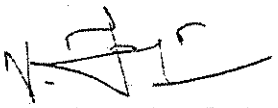
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1889. 5042 7.86532 33.3612 20.26; 5043 9.36268 33.3615 20.26
1890. 5044 9.36247 27.938 20.26; 5045 7.86514 17.0856 20.26
1891. 5046 7.86497 26.3856 20.26; 5047 7.86633 14.7621 20.26
1892. 5048 9.36648 14.762 20.26; 5049 8.6256 3.13207 20.26
1893. 5050 7.86562 29.4858 20.26; 5051 8.61538 34.9143 20.26
1894. 5052 9.36361 12.4378 20.26; 5053 7.86492 7.01383 20.26
1895. 5054 8.61257 11.6612 20.26; 5055 9.36432 34.1371 20.26
1896. 5056 8.6148 26.385 20.26; 5057 7.86351 24.838 20.26
1897. 5058 7.86583 17.8622 20.26; 5059 9.36281 5.46175 20.26
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1899. 5062 8.61413 25.6147 20.26; 5063 9.36496 31.0386 20.26
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1902. 5068 8.61206 12.4383 20.26; 5069 8.61472 32.5838 20.26
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1904. 5072 8.61698 17.8616 20.26; 5073 9.36406 21.7379 20.26
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1908. 5080 8.61687 9.33822 20.26; 5081 9.36654 30.262 20.26
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1930. 5152 6.35 32.2 13.03; 5154 10.76 32.2 13.3; 5155 -1.66 10.5 15.99
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1941. 5186 5.35 7.4 21.75; 5187 5.35 10.5 21.75; 5188 5.35 13.6 21.75
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1949. 5211 8.2 4.3 13.03; 5212 8.20221 4.3 11.8682; 5213 1.94 16.7 27.54
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2043. 560 361 362; 561 363 312; 562 364 359; 563 363 364; 564 365 311; 565 365 306
2044. 566 310 308; 567 308 379; 568 299 5221; 569 292 388; 570 297 298; 571 298 375
2045. 572 303 367; 573 366 382; 574 304 366; 575 367 304; 576 368 5162; 577 368 369
2046. 578 369 372; 579 369 371; 580 370 310; 581 371 308; 582 370 371; 583 309 398
2047. 584 372 367; 585 305 373; 586 373 372; 587 373 303; 588 303 374; 589 374 297
2048. 590 375 366; 591 375 385; 592 297 384; 593 376 377; 594 377 292; 595 377 287
2049. 596 306 378; 597 379 5186; 598 379 5199; 599 380 299; 600 380 300; 601 381 290
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2051. 608 384 385; 609 386 293; 610 387 356; 611 386 391; 612 388 383; 613 389 387
2052. 614 388 390; 615 390 389; 616 391 387; 617 390 391; 618 392 286; 619 393 335
2053. 620 392 5129; 621 394 291; 623 396 395; 624 394 395; 625 398 397; 626 397 305
2054. 627 270 399; 628 271 400; 629 272 401; 630 273 402; 631 274 403; 632 275 404

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.

2055. 633 276 405; 634 277 406; 635 278 407; 636 279 408; 637 280 409; 638 281 410
2056. 639 282 411; 640 283 412; 643 286 415; 644 287 416; 645 288 417; 648 291 420
2057. 649 292 421; 650 293 422; 653 296 425; 654 297 426; 655 298 427; 656 299 428
2058. 659 302 431; 660 303 432; 661 304 433; 662 305 434; 664 307 436; 666 309 438
2059. 669 312 441; 670 399 400; 671 400 446; 672 401 402; 673 403 443; 674 404 455
2060. 675 405 469; 676 406 447; 677 443 479; 678 443 448; 679 442 399; 680 402 444
2061. 681 407 445; 682 445 452; 683 404 449; 684 446 401; 685 405 450; 686 447 459
2062. 687 447 451; 688 448 442; 689 449 400; 690 448 454; 691 450 446; 692 449 456
2063. 693 451 401; 694 450 458; 695 452 444; 696 451 460; 697 453 404; 698 454 449
2064. 699 453 454; 700 455 473; 701 456 450; 702 455 456; 703 457 406; 704 458 451
2065. 705 457 458; 706 459 465; 707 460 452; 708 459 460; 709 409 461; 710 461 445
2066. 711 408 522; 712 408 467; 713 462 405; 714 412 470; 715 463 466; 716 463 408
2067. 717 464 409; 718 465 407; 719 464 465; 720 466 462; 721 467 406; 722 466 468
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2069. 729 411 477; 730 471 404; 731 471 472; 732 472 466; 733 473 462; 734 472 473
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2071. 741 478 481; 742 479 453; 743 478 479; 744 480 482; 745 481 477; 746 480 481
2072. 747 482 411; 748 417 482; 749 416 417; 750 418 510; 755 417 518; 756 416 484
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2077. 787 493 488; 788 492 493; 789 494 440; 790 494 435; 791 439 437; 792 437 508
2078. 793 428 5256; 794 421 517; 795 426 427; 796 427 504; 797 432 496; 798 495 511
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2081. 811 502 501; 812 502 432; 813 432 503; 814 503 426; 815 504 495; 816 504 514
2082. 817 426 513; 819 506 421; 821 435 507; 822 508 5187; 823 508 5200; 824 509 428
2083. 825 509 429; 826 510 419; 827 424 510; 828 511 428; 829 512 515; 830 511 512
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2086. 844 522 464; 845 521 5132; 846 523 420; 848 525 524; 849 523 524; 850 527 526
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2095. 911 576 588; 912 576 580; 913 577 571; 914 578 529; 915 577 583; 916 579 575
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2097. 923 583 578; 924 582 583; 925 584 602; 926 585 579; 927 584 585; 928 586 535
2098. 929 587 580; 930 586 587; 931 588 594; 932 589 581; 933 588 589; 934 538 590
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2103. 959 601 602; 960 603 532; 961 604 539; 962 604 605; 963 605 603; 964 606 600
2104. 965 605 607; 966 607 610; 967 608 582; 968 607 608; 969 609 611; 970 610 606
2105. 971 609 610; 972 611 540; 973 546 611; 974 545 546; 975 547 639; 980 546 647
2106. 981 545 613; 982 613 604; 983 614 612; 984 614 5134; 986 615 5136; 987 544 616
2107. 988 616 590; 989 548 652; 990 549 616; 991 567 626; 992 568 5176; 993 569 621
2108. 994 570 565; 995 565 620; 996 560 554; 997 554 549; 998 553 554; 1001 552 553
2109. 1003 559 618; 1004 564 622; 1005 617 565; 1006 618 560; 1007 617 619
2110. 1008 619 618; 1009 620 560; 1010 619 620; 1011 621 570; 1012 622 617



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2111. 1013 621 622; 1014 623 569; 1015 623 564; 1016 568 566; 1017 566 637
2112. 1018 557 5222; 1019 550 646; 1020 555 556; 1021 556 633; 1022 561 625
2113. 1023 624 640; 1024 562 624; 1025 625 562; 1026 626 5164; 1027 626 627
2114. 1028 627 630; 1029 627 629; 1030 628 568; 1031 629 566; 1032 628 629
2115. 1033 567 656; 1034 630 625; 1035 563 631; 1036 631 630; 1037 631 561
2116. 1038 561 632; 1039 632 555; 1040 633 624; 1041 633 643; 1042 555 642
2117. 1043 634 635; 1044 635 550; 1045 635 545; 1046 564 636; 1047 637 5188
2118. 1048 637 5201; 1049 638 557; 1050 638 558; 1051 639 548; 1052 553 639
2119. 1053 640 557; 1054 641 644; 1055 640 641; 1056 642 634; 1057 643 550
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2121. 1063 647 645; 1064 646 648; 1065 648 647; 1066 649 645; 1067 648 649
2122. 1068 650 544; 1069 651 593; 1070 650 5135; 1071 652 549; 1073 654 653
2123. 1074 652 653; 1075 656 655; 1076 655 563; 1077 528 657; 1078 529 658
2124. 1079 530 659; 1080 531 660; 1081 532 661; 1082 533 662; 1083 534 663
2125. 1084 535 664; 1085 536 665; 1086 537 666; 1087 538 667; 1088 539 668
2126. 1089 540 669; 1090 541 670; 1093 544 673; 1094 545 674; 1095 546 675
2127. 1098 549 678; 1099 550 679; 1100 551 680; 1103 554 683; 1104 555 684
2128. 1105 556 685; 1106 557 686; 1107 657 658; 1108 658 694; 1109 659 660
2129. 1110 661 691; 1111 662 703; 1112 663 717; 1113 664 695; 1114 691 727
2130. 1115 691 696; 1116 690 657; 1117 660 692; 1118 665 693; 1119 693 700
2131. 1120 662 697; 1121 694 659; 1122 663 698; 1123 695 707; 1124 695 699
2132. 1125 696 690; 1126 697 658; 1127 696 702; 1128 698 694; 1129 697 704
2133. 1130 699 659; 1131 698 706; 1132 700 692; 1133 699 708; 1134 701 662
2134. 1135 702 697; 1136 701 702; 1137 703 721; 1138 704 698; 1139 703 704
2135. 1140 705 664; 1141 706 699; 1142 705 706; 1143 707 713; 1144 708 700
2136. 1145 707 708; 1146 667 709; 1147 709 693; 1148 666 753; 1149 666 715
2137. 1150 710 663; 1151 670 718; 1152 711 714; 1153 711 666; 1154 712 667
2138. 1155 713 665; 1156 712 713; 1157 714 710; 1158 715 664; 1159 714 716
2139. 1160 716 715; 1161 717 705; 1162 716 717; 1163 668 728; 1164 718 711
2140. 1165 669 718; 1166 669 725; 1167 719 662; 1168 719 720; 1169 720 714
2141. 1170 721 710; 1171 720 721; 1172 722 661; 1173 723 668; 1174 723 724
2142. 1175 724 722; 1176 725 719; 1177 724 726; 1178 726 729; 1179 727 701
2143. 1180 726 727; 1181 728 730; 1182 729 725; 1183 728 729; 1184 730 669
2144. 1185 675 730; 1186 674 675; 1187 676 741; 1192 675 749; 1193 674 732
2145. 1194 732 723; 1195 733 731; 1196 733 5137; 1198 734 5139; 1200 735 709
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2147. 1209 686 5223; 1210 679 748; 1211 684 685; 1212 685 738; 1213 736 742
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2150. 1227 745 679; 1228 744 745; 1229 746 680; 1230 747 733; 1231 746 751
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2152. 1237 750 751; 1238 752 673; 1239 753 712; 1240 752 5138; 1241 754 678
2153. 1243 756 755; 1244 754 755; 1247 560 689; 1248 561 757; 1249 562 758
2154. 1250 563 759; 1252 565 761; 1254 567 763; 1257 570 766; 1258 763 775
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2156. 1265 760 787; 1266 767 761; 1267 768 689; 1268 767 791; 1269 769 789
2157. 1270 770 689; 1271 769 770; 1272 771 766; 1273 772 5215; 1274 771 772
2158. 1275 773 765; 1276 773 760; 1277 764 762; 1278 762 782; 1279 757 774
2159. 1280 758 792; 1281 774 758; 1282 775 5165; 1283 775 776; 1284 776 779
2160. 1285 776 786; 1286 777 764; 1287 778 762; 1288 777 778; 1289 763 785
2161. 1290 779 774; 1291 759 780; 1292 780 779; 1293 780 757; 1294 757 737
2162. 1295 760 781; 1296 782 5189; 1297 782 5202; 1298 783 687; 1299 785 784
2163. 1300 784 759; 1301 783 686; 1302 786 5214; 1303 786 758; 1304 787 772
2164. 1307 789 768; 1310 791 769; 1312 792 793; 1313 793 736; 1314 793 783
2165. 1315 794 5177; 1317 796 781; 1319 657 797; 1320 658 798; 1321 659 799
2166. 1322 660 800; 1323 661 801; 1324 662 802; 1325 663 803; 1326 664 804

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2167. 1327 665 805; 1328 666 806; 1329 667 807; 1330 668 808; 1331 669 809
2168. 1332 670 810; 1335 673 813; 1336 674 814; 1337 675 815; 1340 678 818
2169. 1341 679 819; 1342 680 820; 1345 683 823; 1346 684 824; 1347 685 825
2170. 1348 686 826; 1351 689 829; 1352 757 830; 1353 758 831; 1354 759 832
2171. 1356 761 834; 1358 763 836; 1361 766 839; 1362 797 798; 1363 798 844
2172. 1364 799 800; 1365 801 841; 1366 802 853; 1367 803 867; 1368 804 845
2173. 1369 841 877; 1370 841 846; 1371 840 797; 1372 800 842; 1373 805 843
2174. 1374 843 850; 1375 802 847; 1376 844 799; 1377 803 848; 1378 845 857
2175. 1379 845 849; 1380 846 840; 1381 847 798; 1382 846 852; 1383 848 844
2176. 1384 847 854; 1385 849 799; 1386 848 856; 1387 850 842; 1388 849 858
2177. 1389 851 802; 1390 852 847; 1391 851 852; 1392 853 871; 1393 854 848
2178. 1394 853 854; 1395 855 804; 1396 856 849; 1397 855 856; 1398 857 863
2179. 1399 858 850; 1400 857 858; 1401 807 859; 1402 859 843; 1403 806 920
2180. 1404 806 865; 1405 860 803; 1406 810 868; 1407 861 864; 1408 861 806
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2193. 1488 825 902; 1490 893 909; 1491 831 931; 1493 895 5166; 1497 897 837
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2212. 1612 839 983; 1613 942 943; 1614 943 988; 1615 944 945; 1616 946 985
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2216. 1632 991 943; 1633 990 996; 1634 992 988; 1635 991 998; 1636 993 944
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2218. 1642 995 996; 1643 997 1015; 1644 998 992; 1645 997 998; 1646 999 949
2219. 1647 1000 993; 1648 999 1000; 1649 1001 1007; 1650 1002 994; 1651 1001 1002
2220. 1652 952 1003; 1653 1003 987; 1654 951 1054; 1655 951 1009; 1656 1004 948
2221. 1657 955 1012; 1658 1005 1008; 1659 1005 951; 1660 1006 952; 1661 1007 950
2222. 1662 1006 1007; 1663 1008 1004; 1664 1009 949; 1665 1008 1010; 1666 1010 1009



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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
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2223. 1667 1011 999; 1668 1010 1011; 1669 953 1022; 1670 1012 1005; 1671 954 1012
2224. 1672 954 1019; 1673 1013 947; 1674 1013 1014; 1675 1014 1008; 1676 1015 1004
2225. 1677 1014 1015; 1678 1016 946; 1679 1017 953; 1680 1017 1018; 1681 1018 1016
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2242. 1776 1062 1034; 1777 1063 1061; 1778 1062 1063; 1779 1064 1061; 1780 1064 979
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2257. 1866 1130 1124; 1867 1131 1083; 1868 1130 1136; 1869 1132 1128; 1870 1131 1138
2258. 1871 1133 1084; 1872 1132 1140; 1873 1134 1126; 1874 1133 1142; 1875 1135 1087
2259. 1876 1136 1131; 1877 1135 1136; 1878 1137 1155; 1879 1138 1132; 1880 1137 1138
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2262. 1891 1144 1088; 1892 1095 1152; 1893 1145 1148; 1894 1145 1091; 1895 1146 1092
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2267. 1916 1158 1156; 1917 1159 1153; 1918 1158 1160; 1919 1160 1163; 1920 1161 1135
2268. 1921 1160 1161; 1922 1162 1164; 1923 1163 1159; 1924 1162 1163; 1925 1164 1094
2269. 1926 1100 1164; 1927 1099 1100; 1928 1101 1182; 1933 1100 1190; 1934 1099 1166
2270. 1935 1166 1157; 1936 1167 1165; 1937 1167 5146; 1939 1168 5148; 1940 1098 1169
2271. 1941 1169 1143; 1942 1102 1195; 1943 1103 1169; 1944 1120 1202; 1945 1121 1208
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2276. 1969 1117 1176; 1970 1176 1115; 1971 1115 1177; 1972 1177 1109; 1973 1178 1173
2277. 1974 1178 1186; 1975 1109 1185; 1976 1179 1180; 1977 1180 1104; 1978 1180 1099
2278. 1979 1181 1111; 1980 1181 1112; 1981 1182 1102; 1982 1107 1182; 1983 1183 1111
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

2279. 1984 1184 1187; 1985 1183 1184; 1986 1185 1179; 1987 1186 1104; 1988 1185 1186
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2305. 2137 1293 1277; 2138 1241 1379; 2139 1241 1299; 2140 1294 1238; 2141 1245 1302
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2307. 2147 1298 1294; 2148 1299 1239; 2149 1298 1300; 2150 1300 1299; 2151 1301 1289
2308. 2152 1300 1301; 2153 1243 1312; 2154 1302 1295; 2155 1244 1302; 2156 1244 1309
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2333. 2297 1376 1283; 2298 1377 1234; 2299 1376 1377; 2300 1379 1344; 2302 1380 1379
2334. 2303 1232 1381; 2304 1233 1382; 2305 1234 1383; 2306 1235 1384; 2307 1236 1385

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

2335. 2308 1237 1386; 2309 1238 1387; 2310 1239 1388; 2311 1240 1389; 2312 1241 1390
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2354. 2425 1400 1481; 2430 1399 1489; 2431 1398 1465; 2432 1465 1456; 2433 1466 1464
2355. 2434 1466 5152; 2436 1467 5154; 2437 1397 1468; 2438 1468 1442; 2439 1401 1494
2356. 2440 1402 1468; 2441 1419 1501; 2442 1420 1507; 2443 1421 1470; 2444 1422 1417
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2377. 2553 1531 1388; 2554 1523 1531; 2555 1532 1431; 2556 1533 1443; 2557 1532 1533
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2383. 2598 1557 1559; 2599 1556 1557; 2600 1558 1540; 2601 1559 1541; 2602 1560 1550
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2386. 2636 1578 1571; 5864 4192 4193; 5865 4193 1406; 5866 4194 4195; 5867 4195 4196
2387. 5868 4196 4197; 5869 4197 4198; 5870 4198 1543; 7095 117 4630; 7096 117 3493
2388. 7097 118 4144; 7098 106 2857; 7099 101 5211; 7100 107 2319; 7101 300 4635
2389. 7102 300 3498; 7103 301 4149; 7104 289 2861; 7105 284 1765; 7106 290 2322
2390. 7107 429 4640; 7108 429 3503; 7109 430 4154; 7110 418 2865; 7111 413 1770

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841265124

2391. 7112 419 2325; 7113 558 4645; 7114 558 3508; 7115 559 4159; 7116 547 2869
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2398. 7147 1246 1800; 7148 1252 2343; 7149 1411 4675; 7150 1411 3538; 7151 1412 4189
2399. 7152 1400 2893; 7153 1395 1804; 7154 1401 2346; 7155 5104 820; 7156 5104 821
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2403. 7199 102 5126; 7200 5127 260; 7201 263 5127; 7202 5128 283; 7203 5129 393
2404. 7204 5130 392; 7205 5128 284; 7206 285 5129; 7207 395 5130; 7208 5131 412
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.

2447. 7427 1806 1526; 7428 1807 1396; 7429 2227 1577; 7430 2228 1579; 7431 2229 1571
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2450. 7442 2329 543; 7443 2330 615; 7444 2331 756; 7445 2332 672; 7446 2333 734
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.

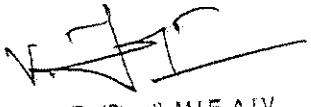
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

2671. 3278 2023 2175 1715 1716; 3279 1831 2053 2175 2023; 3280 2053 1830 1892 2175
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2691. 3338 2195 1905 1869 2068; 3339 2050 2195 2068 1853; 3340 1620 1621 2195 2050
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2712. 3401 2216 2058 1874 2036; 3402 2003 2216 2036 1862; 3403 1585 1586 2216 2003
2713. 3404 2217 2076 1824 1956; 3405 1958 2217 1956 1825; 3406 1868 1920 2217 1958
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2724. 3559 2429 2391 2432 2623; 3560 264 2434 2624 2319; 3561 1707 1706 2625 2435
2725. 3562 2626 2437 2367 2440; 3563 2441 264 2319 2627; 3564 1669 1668 2628 2443
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3-B, RAMANIYAM GAURAV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI-119.
Mobile: 9841269154

2727. 3568 2632 2448 2358 2451; 3569 2323 2633 2452 357; 3570 178 2455 2634 2318
2728. 3571 2635 2456 2373 2459; 3572 2636 2460 2271 2272; 3573 2463 2390 2439 2637
2729. 3574 2638 2427 2399 2466; 3575 2639 2467 2231 2232; 3576 2640 2468 2243 2244
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2734. 3589 2498 396 2322 2653; 3590 2315 2654 2500 2314; 3591 2316 2655 2502 172
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2737. 3598 525 2518 2662 2325; 3599 2519 2386 2487 2663; 3600 1676 1675 2664 2521
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2747. 3628 1749 2447 2692 2501; 3629 2446 615 2330 2693; 3630 2565 2388 2567 2694
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2749. 3634 2575 2392 2458 2698; 3635 2699 2576 2375 2518; 3636 1693 1692 2700 2579
2750. 3637 2454 2701 2307 2308; 3638 1742 1741 2702 2582; 3639 2703 2584 2299 2300
2751. 3640 2585 2704 2249 2250; 3641 2360 2586 2705 2481; 3642 2350 2706 2465 1551
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2753. 3646 2710 2574 2364 2505; 3647 2332 2711 2593 734; 3648 2712 2595 2370 2596
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2755. 3652 2428 1579 2229 2716; 3653 2601 2379 2499 2717; 3654 1725 1724 2718 2602
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2758. 3661 2562 1467 2348 2725; 3662 2726 2520 2357 2541; 3663 2727 2430 2372 2525
2759. 3664 2611 756 2331 2728; 3665 2613 2729 2555 2393; 3666 2514 486 2327 2730
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2769. 3694 2583 224 2321 2758; 3695 1697 1696 2759 2591; 3696 2335 2760 2614 884
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2777. 3718 2390 2438 2626 2439; 3719 2438 2416 2437 2626; 3720 2627 2319 107 2303
2778. 3721 2442 2627 2303 2304; 3722 2382 2441 2627 2442; 3723 1668 1569 2227 2628
2779. 3724 2628 2227 1577 2426; 3725 2443 2628 2426 2400; 3726 2337 2629 2260 962
2780. 3727 1057 2444 2629 2337; 3728 2444 2363 2423 2629; 3729 1720 543 2329 2630
2781. 3730 2630 2329 615 2446; 3731 2445 2630 2446 2405; 3732 1748 59 2316 2631
2782. 3733 2631 2316 172 2447; 3734 2450 2632 2451 2359; 3735 2387 2449 2632 2450

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
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2783. 3736 2449 2401 2448 2632; 3737 285 1733 2633 2323; 3738 1733 1732 2453 2633
2784. 3739 2633 2453 2411 2452; 3740 2455 2384 2454 2634; 3741 2634 2454 2308 2309
2785. 3742 2318 2634 2309 64; 3743 2458 2635 2459 2374; 3744 2392 2457 2635 2458
2786. 3745 2457 2405 2456 2635; 3746 2462 2636 2272 2273; 3747 2369 2461 2636 2462
2787. 3748 2461 2368 2460 2636; 3749 2637 2439 2368 2461; 3750 2464 2637 2461 2369
2788. 3751 2417 2463 2637 2464; 3752 2351 2638 2466 1566; 3753 1551 2465 2638 2351
2789. 3754 2465 2400 2427 2638; 3755 2349 2639 2232 1538; 3756 1566 2466 2639 2349
2790. 3757 2466 2399 2467 2639; 3758 2470 2640 2244 2245; 3759 2357 2469 2640 2470
2791. 3760 2469 2356 2468 2640; 3761 2342 2641 2473 1197; 3762 1168 2472 2641 2342
2792. 3763 2472 2414 2471 2641; 3764 2334 2642 2267 817; 3765 923 2475 2642 2334
2793. 3766 2475 2366 2474 2642; 3767 2643 2477 2255 2256; 3768 2421 2643 2256 2257
2794. 3769 2362 2476 2643 2421; 3770 1713 672 2332 2644; 3771 2644 2332 734 2479
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2837. 3898 2555 2409 2554 2686; 3899 2687 2442 2304 2305; 3900 2557 2687 2305 2306
2838. 3901 2383 2556 2687 2557; 3902 2317 2688 2455 178; 3903 172 2502 2688 2317

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

2839. 3904 2502 2396 2558 2688; 3905 1247 1684 2689 2344; 3906 1684 1683 2560 2689
2840. 3907 2689 2560 2404 2559; 3908 1678 1396 2347 2690; 3909 2690 2347 1467 2562
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9840284138

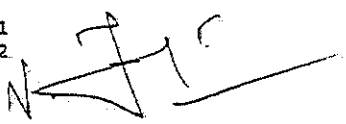
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 98 ~~84~~ 84 ~~84~~

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
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Mobile: 9841230154

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841299154

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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.

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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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V. JAGEN, B.E.,M.E., (Struct). M.I.E.,A.I.V.,
CMDA REGN NOS-
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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9[illegible]

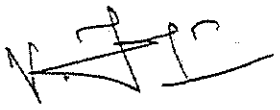
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI- 600 119.
Mobile 9841299154

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3711. MESH PARAM 0.5 4 1
3712. MESH ORG 0 1 14
3713. BOUNDARY 28
3714. 25 0 0 68 0 0 111 0 0 294 0 0 423 0 0 552 0 0 681 0 0 821 0 0 966 0 0 -
3715. 1106 0 0 1256 0 0 1405 0 0 1542 0 0 1572 0 0 1574 0 0 1547 0 0 1411 0 0 -
3716. 1262 0 0 1112 0 0 972 0 0 827 0 0 687 0 0 558 0 0 429 0 0 300 0 0 117 0 0 -
3717. 74 0 0 31 0 0
3718. DENSITY LINE 7.49 1.2 20.26 1 7.49 1.2 17.68 1 0
3719. DENSITY LINE 7.49 4.3 20.26 1 7.49 4.3 17.68 1 0
3720. DENSITY LINE 7.49 7.4 20.26 1 7.49 7.4 17.68 1 0
3721. DENSITY LINE 7.49 10.5 20.26 1 7.49 10.5 17.68 1 0
3722. DENSITY LINE 7.49 13.6 20.26 1 7.49 13.6 17.68 1 0
3723. DENSITY LINE 7.49 16.7 20.26 1 7.49 16.7 17.68 1 0
3724. DENSITY LINE 7.49 19.8 20.26 1 7.49 19.8 17.68 1 0
3725. DENSITY LINE 7.49 22.9 20.26 1 7.49 22.9 17.68 1 0
3726. DENSITY LINE 7.49 26 20.26 1 7.49 26 17.68 1 0
3727. DENSITY LINE 7.49 29.1 20.26 1 7.49 29.1 17.68 1 0
3728. DENSITY LINE 7.49 32.2 20.26 1 7.49 32.2 17.68 1 0
3729. DENSITY LINE 7.49 35.3 20.26 1 7.49 35.3 17.68 1 0
3730. GENERATED NODES 3312 TO 3962
3731. GENERATED PLATES PLATE 5064 TO 5639
3732. END
3733. !> END GENERATED DATA BLOCK
3734. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
```



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BLOCK-2, MODEL SCHOOL ROAD
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Mobile: 9841269154

```
3735. PARAMETRIC MODEL LW4
3736. TYPE WALL
3737. MESH PARAM 0.5 4 1
3738. MESH ORG 0 1 14
3739. BOUNDARY 28
3740. 31 0 0 74 0 0 117 0 0 300 0 0 429 0 0 558 0 0 687 0 0 827 0 0 972 0 0 -
3741. 1112 0 0 1262 0 0 1411 0 0 1547 0 0 1574 0 0 1575 0 0 1548 0 0 1412 0 0 -
3742. 1263 0 0 1113 0 0 973 0 0 828 0 0 688 0 0 559 0 0 430 0 0 301 0 0 118 0 0 -
3743. 75 0 0 32 0 0
3744. DENSITY POINTS 1
3745. 8.6 1.2 20.26 1
3746. DENSITY LINE 7.49 1.2 20.26 1 8.6 1.2 20.26 1 0
3747. DENSITY LINE 8.6 1.2 20.26 1 9.74 1.2 20.26 1 0
3748. DENSITY LINE 7.49 4.3 20.26 1 9.74 4.3 20.26 1 0
3749. DENSITY LINE 7.49 7.4 20.26 1 9.74 7.4 20.26 1 0
3750. DENSITY LINE 7.49 10.5 20.26 1 9.74 10.5 20.26 1 0
3751. DENSITY LINE 7.49 13.6 20.26 1 9.74 13.6 20.26 1 0
3752. DENSITY LINE 7.49 16.7 20.26 1 9.74 16.7 20.26 1 0
3753. DENSITY LINE 7.49 19.8 20.26 1 9.74 19.8 20.26 1 0
3754. DENSITY LINE 7.49 22.9 20.26 1 9.74 22.9 20.26 1 0
3755. DENSITY LINE 7.49 26 20.26 1 9.74 26 20.26 1 0
3756. DENSITY LINE 7.49 29.1 20.26 1 9.74 29.1 20.26 1 0
3757. DENSITY LINE 7.49 32.2 20.26 1 9.74 32.2 20.26 1 0
3758. DENSITY LINE 7.49 35.3 20.26 1 9.74 35.3 20.26 1 0
3759. GENERATED NODES 4614 TO 5103
3760. GENERATED PLATES PLATE 6513 TO 7094
3761. END
3762. !> END GENERATED DATA BLOCK
3763. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
3764. PARAMETRIC MODEL LW3
3765. TYPE WALL
3766. MESH PARAM 0.5 4 1
3767. MESH ORG 0 1 15
3768. BOUNDARY 29
3769. 15 0 0 58 0 0 101 0 0 284 0 0 413 0 0 542 0 0 671 0 0 811 0 0 956 0 0 -
3770. 1096 0 0 1246 0 0 1395 0 0 1535 0 0 1568 0 0 1576 0 0 1570 0 0 1537 0 0 -
3771. 1400 0 0 1251 0 0 1101 0 0 961 0 0 816 0 0 676 0 0 547 0 0 418 0 0 289 0 0 -
3772. 106 0 0 63 0 0 20 0 0
3773. DENSITY POINTS 12
3774. 7.86 1.2 14.49 1 7.86 4.3 14.49 1 7.86 7.4 14.49 1 7.86 10.5 14.49 1 -
3775. 7.86 13.6 14.49 1 7.86 16.7 14.49 1 7.86 19.8 14.49 1 7.86 22.9 14.49 1 -
3776. 7.86 26 14.49 1 7.86 29.1 14.49 1 7.86 32.2 14.49 1 7.86 35.3 14.49 1
3777. DENSITY LINE 7.86 1.2 14.99 1 7.86 1.2 14.49 1 0
3778. DENSITY LINE 7.86 1.2 14.49 1 7.86 1.2 13.03 1 0
3779. DENSITY LINE 7.86 4.3 14.99 1 7.86 4.3 14.49 1 0
3780. DENSITY LINE 7.86 4.3 14.49 1 7.86 4.3 13.03 1 0
3781. DENSITY LINE 7.86 7.4 14.99 1 7.86 7.4 14.49 1 0
3782. DENSITY LINE 7.86 7.4 14.49 1 7.86 7.4 13.03 1 0
3783. DENSITY LINE 7.86 10.5 14.99 1 7.86 10.5 14.49 1 0
3784. DENSITY LINE 7.86 10.5 14.49 1 7.86 10.5 13.03 1 0
3785. DENSITY LINE 7.86 13.6 14.99 1 7.86 13.6 14.49 1 0
3786. DENSITY LINE 7.86 13.6 14.49 1 7.86 13.6 13.03 1 0
3787. DENSITY LINE 7.86 16.7 14.99 1 7.86 16.7 14.49 1 0
3788. DENSITY LINE 7.86 16.7 14.49 1 7.86 16.7 13.03 1 0
3789. DENSITY LINE 7.86 19.8 14.99 1 7.86 19.8 14.49 1 0
3790. DENSITY LINE 7.86 19.8 14.49 1 7.86 19.8 13.03 1 0
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```
3791. DENSITY LINE 7.86 22.9 14.99 1 7.86 22.9 14.49 1 0
3792. DENSITY LINE 7.86 22.9 14.49 1 7.86 22.9 13.03 1 0
3793. DENSITY LINE 7.86 26 14.99 1 7.86 26 14.49 1 0
3794. DENSITY LINE 7.86 26 14.49 1 7.86 26 13.03 1 0
3795. DENSITY LINE 7.86 29.1 14.99 1 7.86 29.1 14.49 1 0
3796. DENSITY LINE 7.86 29.1 14.49 1 7.86 29.1 13.03 1 0
3797. DENSITY LINE 7.86 32.2 14.99 1 7.86 32.2 14.49 1 0
3798. DENSITY LINE 7.86 32.2 14.49 1 7.86 32.2 13.03 1 0
3799. DENSITY LINE 7.86 35.3 14.99 1 7.86 35.3 14.49 1 0
3800. DENSITY LINE 7.86 35.3 14.49 1 7.86 35.3 13.03 1 0
3801. GENERATED NODES 2763 TO 3311
3802. GENERATED PLATES PLATE 4262 TO 4832
3803. END
3804. !> END GENERATED DATA BLOCK
3805. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
3806. PARAMETRIC MODEL LW2
3807. TYPE WALL
3808. MESH PARAM 0.5 4 1
3809. MESH ORG 0 1 16
3810. BOUNDARY 30
3811. 16 0 0 59 0 0 102 0 0 285 0 0 414 0 0 543 0 0 672 0 0 812 0 0 957 0 0 -
3812. 1097 0 0 1247 0 0 1396 0 0 1536 0 0 1569 0 0 1577 0 0 1579 0 0 1571 0 0 -
3813. 1538 0 0 1401 0 0 1252 0 0 1102 0 0 962 0 0 817 0 0 677 0 0 548 0 0 419 0 0 -
3814. 290 0 0 107 0 0 64 0 0 21 0 0
3815. DENSITY POINTS 24
3816. 9.92 1.2 13.3 1 9.92 1.2 14.2 1 9.92 4.3 13.3 1 9.92 4.3 14.2 1 -
3817. 9.92 7.4 13.3 1 9.92 7.4 14.2 1 9.92 10.5 13.3 1 9.92 10.5 14.2 1 -
3818. 9.92 13.6 13.3 1 9.92 13.6 14.2 1 9.92 16.7 13.3 1 9.92 16.7 14.2 1 -
3819. 9.92 19.8 13.3 1 9.92 19.8 14.2 1 9.92 22.9 13.3 1 9.92 22.9 14.2 1 -
3820. 9.92 26 13.3 1 9.92 26 14.2 1 9.92 29.1 13.3 1 9.92 29.1 14.2 1 -
3821. 9.92 32.2 13.3 1 9.92 32.2 14.2 1 9.92 35.3 13.3 1 9.92 35.3 14.2 1
3822. DENSITY LINE 9.92 1.2 13.03 1 9.92 1.2 13.3 1 0
3823. DENSITY LINE 9.92 1.2 13.3 1 9.92 1.2 14.2 1 0
3824. DENSITY LINE 9.92 1.2 14.2 1 9.92 1.2 14.99 1 0
3825. DENSITY LINE 9.92 4.3 14.99 1 9.92 4.3 14.2 1 0
3826. DENSITY LINE 9.92 4.3 13.3 1 9.92 4.3 13.03 1 0
3827. DENSITY LINE 9.92 4.3 14.2 1 9.92 4.3 13.3 1 0
3828. DENSITY LINE 9.92 7.4 14.99 1 9.92 7.4 14.2 1 0
3829. DENSITY LINE 9.92 7.4 13.3 1 9.92 7.4 13.03 1 0
3830. DENSITY LINE 9.92 7.4 14.2 1 9.92 7.4 13.3 1 0
3831. DENSITY LINE 9.92 10.5 14.99 1 9.92 10.5 14.2 1 0
3832. DENSITY LINE 9.92 10.5 13.3 1 9.92 10.5 13.03 1 0
3833. DENSITY LINE 9.92 10.5 14.2 1 9.92 10.5 13.3 1 0
3834. DENSITY LINE 9.92 13.6 14.99 1 9.92 13.6 14.2 1 0
3835. DENSITY LINE 9.92 13.6 13.3 1 9.92 13.6 13.03 1 0
3836. DENSITY LINE 9.92 13.6 14.2 1 9.92 13.6 13.3 1 0
3837. DENSITY LINE 9.92 16.7 14.99 1 9.92 16.7 14.2 1 0
3838. DENSITY LINE 9.92 16.7 13.3 1 9.92 16.7 13.03 1 0
3839. DENSITY LINE 9.92 16.7 14.2 1 9.92 16.7 13.3 1 0
3840. DENSITY LINE 9.92 19.8 14.99 1 9.92 19.8 14.2 1 0
3841. DENSITY LINE 9.92 19.8 13.3 1 9.92 19.8 13.03 1 0
3842. DENSITY LINE 9.92 19.8 14.2 1 9.92 19.8 13.3 1 0
3843. DENSITY LINE 9.92 22.9 14.99 1 9.92 22.9 14.2 1 0
3844. DENSITY LINE 9.92 22.9 13.3 1 9.92 22.9 13.03 1 0
3845. DENSITY LINE 9.92 22.9 14.2 1 9.92 22.9 13.3 1 0
3846. DENSITY LINE 9.92 26 14.99 1 9.92 26 14.2 1 0
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3847. DENSITY LINE 9.92 26 13.3 1 9.92 26 13.03 1 0
3848. DENSITY LINE 9.92 26 14.2 1 9.92 26 13.3 1 0
3849. DENSITY LINE 9.92 29.1 14.99 1 9.92 29.1 14.2 1 0
3850. DENSITY LINE 9.92 29.1 13.3 1 9.92 29.1 13.03 1 0
3851. DENSITY LINE 9.92 29.1 14.2 1 9.92 29.1 13.3 1 0
3852. DENSITY LINE 9.92 32.2 14.99 1 9.92 32.2 14.2 1 0
3853. DENSITY LINE 9.92 32.2 13.3 1 9.92 32.2 13.03 1 0
3854. DENSITY LINE 9.92 32.2 14.2 1 9.92 32.2 13.3 1 0
3855. DENSITY LINE 9.92 35.3 14.99 1 9.92 35.3 14.2 1 0
3856. DENSITY LINE 9.92 35.3 13.3 1 9.92 35.3 13.03 1 0
3857. DENSITY LINE 9.92 35.3 14.2 1 9.92 35.3 13.3 1 0
3858. GENERATED NODES 2227 TO 2762
3859. GENERATED PLATES PLATE 3556 TO 4126
3860. END
3861. !> END GENERATED DATA BLOCK
3862. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
3863. PARAMETRIC MODEL LW1
3864. TYPE WALL
3865. MESH PARAM 0.5 4 1
3866. MESH ORG 0 1 15
3867. BOUNDARY 29
3868. 15 0 0 58 0 0 101 0 0 284 0 0 413 0 0 542 0 0 671 0 0 811 0 0 956 0 0 -
3869. 1096 0 0 1246 0 0 1395 0 0 1535 0 0 1568 0 0 1580 0 0 1569 0 0 1536 0 0 -
3870. 1396 0 0 1247 0 0 1097 0 0 957 0 0 812 0 0 672 0 0 543 0 0 414 0 0 285 0 0 -
3871. 102 0 0 59 0 0 16 0 0
3872. DENSITY POINTS 4
3873. 9.32 1.2 13.03 1 9.8 29.1 13.03 1 9.8 32.2 13.03 1 9.8 35.3 13.03 1
3874. DENSITY LINE 7.86 1.2 13.03 1 9.32 1.2 13.03 1 0
3875. DENSITY LINE 9.32 1.2 13.03 1 9.92 1.2 13.03 1 0
3876. DENSITY LINE 7.86 4.3 13.03 1 9.92 4.3 13.03 1 0
3877. DENSITY LINE 7.86 7.4 13.03 1 9.92 7.4 13.03 1 0
3878. DENSITY LINE 7.86 10.5 13.03 1 9.92 10.5 13.03 1 0
3879. DENSITY LINE 7.86 13.6 13.03 1 9.92 13.6 13.03 1 0
3880. DENSITY LINE 7.86 16.7 13.03 1 9.92 16.7 13.03 1 0
3881. DENSITY LINE 7.86 19.8 13.03 1 9.92 19.8 13.03 1 0
3882. DENSITY LINE 7.86 22.9 13.03 1 9.92 22.9 13.03 1 0
3883. DENSITY LINE 7.86 26 13.03 1 9.92 26 13.03 1 0
3884. DENSITY LINE 7.86 29.1 13.03 1 9.8 29.1 13.03 1 0
3885. DENSITY LINE 9.8 29.1 13.03 1 9.92 29.1 13.03 1 0
3886. DENSITY LINE 7.86 32.2 13.03 1 9.8 32.2 13.03 1 0
3887. DENSITY LINE 9.8 32.2 13.03 1 9.92 32.2 13.03 1 0
3888. DENSITY LINE 7.86 35.3 13.03 1 9.8 35.3 13.03 1 0
3889. DENSITY LINE 9.8 35.3 13.03 1 9.92 35.3 13.03 1 0
3890. GENERATED NODES 1581 TO 2226
3891. GENERATED PLATES PLATE 2858 TO 3433
3892. END
3893. !> END GENERATED DATA BLOCK
3894. START GROUP DEFINITION
3895. FLOOR
3896. _1STFLOORSUNKEN 217 218 220 221 224 225 228 233 237 242 TO 246 248 TO 252 -
3897. 256 261 264 266 TO 269 273 274 276 277 279 280 283 TO 285 289 311 313 322 -
3898. 323 325 328 331 TO 333 338 TO 340 353 355 356 360 361 377 381
3899. _2TO4UTILITYSUNK 449 450 453 456 457 460 465 469 474 TO 478 480 TO 483 488 -
3900. 493 496 498 TO 501 505 506 508 509 511 512 515 TO 517 521 543 545 546 548 -
3901. 553 TO 557 560 563 TO 565 572 576 577 579 582 584 586 587 674 675 678 681 -
3902. 682 685 690 694 699 TO 703 705 TO 708 713 718 721 723 TO 726 730 731 733 -
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3903. 734 736 737 740 TO 742 746 768 770 771 773 778 TO 782 785 789 790 797 801 -
3904. 802 804 807 809 811 812 899 900 903 906 907 910 915 919 924 TO 928 -
3905. 930 TO 933 938 943 946 948 TO 951 955 956 958 959 961 962 965 TO 967 971 -
3906. 993 995 996 998 1003 TO 1007 1010 1013 TO 1015 1022 1026 1027 1029 1032 -
3907. 1034 1036 1037 7103 7109 7115 7271 7273 7275 7571 TO 7585
3908. _2TO4BALCONYSUNK 448 452 456 484 485 492 TO 494 510 513 515 518 556 -
3909. 558 TO 560 566 580 TO 582 673 677 681 709 710 717 TO 719 735 738 740 743 -
3910. 781 783 TO 785 791 805 TO 807 898 902 906 934 935 942 TO 944 960 963 965 -
3911. 968 1006 1008 TO 1010 1016 1030 TO 1032
3912. _2TO4LOBBYSUNK 448 452 456 484 485 492 TO 494 510 513 515 518 525 533 551 -
3913. 556 558 TO 560 566 568 580 TO 582 599 600 602 609 TO 611 616 673 677 681 -
3914. 709 710 717 TO 719 735 738 740 743 750 758 776 781 783 TO 785 791 793 805 -
3915. 806 TO 807 824 825 827 834 TO 836 841 898 902 906 934 935 942 TO 944 960 963 -
3916. 965 968 975 983 1001 1006 1008 TO 1010 1016 1018 1030 TO 1032 1049 1050 -
3917. 1052 1059 TO 1061 1066 7102 7104 7108 7110 7114 7116 7344 7347 7350 7470 -
3918. 7471 TO 7481 7516 TO 7530 7804 7806 7849
3919. _5THUTILITYSUNK 1110 TO 1112 1114 1115 1118 1119 1122 1127 1131 1136 TO 1140 -
3920. 1142 TO 1145 1150 1155 1158 1160 TO 1162 1167 1168 1170 1171 1179 1211 1212 -
3921. 1216 1217 1228 1260 1262 1265 TO 1271 1274 TO 1276 1304 1307 1310
3922. _5THBALCONYSUNK 1110 1114 1118 1146 1147 1154 TO 1156 1172 1175 1177 1180
3923. _5THFLOORLOBBY 1187 1195 1207 1209 1222 1224 1229 TO 1231 1236 1298 1301 -
3924. 7120 7122 7353 7482 TO 7485 7531 TO 7535 7808
3925. _6THFLOORUTILITY 1365 TO 1367 1369 1370 1373 1374 1377 1382 1386 -
3926. 1391 TO 1395 1397 TO 1400 1405 1410 1413 1415 TO 1418 1422 1423 1425 1426 -
3927. 1428 1429 1432 TO 1434 1438 1449 1458 1460 1476 1481 1487 1488 1500 1502 -
3928. 1508 1509 1525 1542 1543 1547 1550 1556 1557 1559 1566 1568 TO 1570 7301 -
3929. 7791 7792 7812
3930. _6THFLOORBALCONY 1365 1369 1373 1401 1402 1409 TO 1411 1427 1430 1432 1435
3931. _7THFLOORUTILITY 1616 TO 1618 1620 1621 1624 1625 1628 1633 1637 -
3932. 1642 TO 1646 1648 TO 1651 1656 1661 1664 1666 TO 1669 1673 1674 1676 1677 -
3933. 1679 1680 1683 TO 1685 1689 1700 1709 1711 1721 1723 1727 1728 1733 1734 -
3934. 1737 1739 1740 1753 1770 1771 1775 1778 1784 1787 TO 1789 1794 1797 1800 -
3935. 1805 7303 7818 7820 TO 7824
3936. _7THFLOORBALCONY 1616 1620 1624 1652 1653 1660 TO 1662 1678 1681 1683 1686
3937. _8THFLOORUTILITY 1851 1853 1855 1856 1859 1860 1863 1868 1872 1877 TO 1881 -
3938. 1883 TO 1886 1891 1896 1902 1904 1911 1913 TO 1915 1918 TO 1920 1924 1935 -
3939. 1944 1946 1956 1958 1962 1963 1968 1969 1972 1974 1975 1988 2005 2006 2010 -
3940. 2013 2019 2022 TO 2024 2026 2029 2035 2039 2040 2043 2050 2052 2053 7305 -
3941. 7829 7833 TO 7836
3942. _8THFLOORBALCONY 1851 1855 1859 1887 1888 1895 TO 1897 1913 1916 1918 1921
3943. _9THFLOORUTILITY 2100 2102 2104 2105 2108 2109 2112 2117 2121 2126 -
3944. 2130 TO 2135 2140 2145 2148 2150 TO 2153 2162 TO 2164 2167 TO 2169 2173 -
3945. 2184 2193 2205 2207 2211 2212 2217 2218 2221 2223 2224 2237 2254 2255 2259 -
3946. 2262 2268 2271 TO 2273 2278 2284 2285 2288 2289 2292 7307 7838 7839 7841
3947. _9THFLOORBALCONY 2100 2104 2108 2136 2137 2144 TO 2146 2162 2165 2167 2170
3948. _WT 2580 TO 2582 2587 TO 2592 2595 TO 2601 2604 2610
3949. _STAIRCASE 293 301 307 315 316 319 336 337 339 341 359 360 368 TO 374 376 -
3950. 378 TO 381 385 390 525 533 539 547 548 551 568 569 571 573 590 591 -
3951. 599 TO 605 607 609 TO 612 616 621 750 758 764 772 773 776 793 794 796 798 -
3952. 815 816 824 TO 830 832 834 TO 837 841 846 975 983 989 997 998 1001 1018 -
3953. 1019 1021 1023 1040 1041 1049 TO 1055 1057 1059 TO 1062 1066 1071 1187 1195 -
3954. 1201 1204 1205 1207 1209 1210 1212 1213 1215 1216 1221 TO 1225 1227 1229 -
3955. 1230 TO 1232 1236 1241 1298 1301 1442 1450 1456 1464 1465 1468 1485 1486 -
3956. 1488 1490 1507 1508 1516 TO 1522 1524 1526 TO 1529 1533 1538 1693 1701 1707 -
3957. 1715 1716 1719 1725 1726 1728 1729 1738 1739 1744 TO 1750 1752 1754 TO 1757 -
3958. 1761 1766 1928 1936 1942 1950 1951 1954 1960 1961 1963 1964 1973 1974 1979 -
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3959. 1980 TO 1985 1987 1989 TO 1992 1996 2001 2177 2185 2191 2199 2200 2203 2209 -
3960. 2210 2212 2213 2222 2223 2228 TO 2234 2236 2238 TO 2241 2245 2250 2425 2433 -
3961. 2439 2447 2448 2451 2457 2458 2460 2461 2470 2471 2476 TO 2482 2484 2486 -
3962. 2487 TO 2489 2493 2498 7096 7098 7102 7104 7108 7110 7114 7116 7120 7122 -
3963. 7126 7128 7132 7134 7138 7140 7144 7146 7150 7152 7155 TO 7164 7341 7344 -
3964. 7347 7350 7353 7356 7359 7362 7365 7369 7466 TO 7505 7511 TO 7560 7802 7804 -
3965. 7806 7808 7849
3966. _1STFLOORBALCONY 216 220 224 252 253 260 TO 262 278 281 283 286 324 -
3967. 326 TO 328 334 348 TO 350
3968. _LOBBY1TO4 293 301 319 336 368 369 371 378 TO 380 385 525 533 551 568 599 -
3969. 600 602 609 TO 611 616 750 758 776 793 824 825 827 834 TO 836 841 975 983 -
3970. 1001 1018 1049 1050 1052 1059 TO 1061 1066 7096 7098 7102 7104 7108 7110 -
3971. 7114 7116 7341 7344 7347 7350 7466 TO 7481 7511 TO 7530 7802 7804 7806 7849
3972. _1STFLOOR150THK 293 301 319 321 322 325 326 330 335 336 341 TO 343 346 347 -
3973. 349 353 365 TO 369 371 TO 374 378 TO 381 385 7095 7098 7313 7341 7466 7621 -
3974. 7622 TO 7625 7671 7802 7803
3975. _2-4FLOOR150THK 486 489 491 502 503 522 523 525 530 533 534 551 553 554 557 -
3976. 558 562 567 573 TO 575 578 579 581 584 596 TO 600 602 TO 605 609 TO 611 613 -
3977. 616 711 714 716 727 728 747 748 750 755 758 759 776 778 779 782 783 787 792 -
3978. 793 798 TO 800 803 804 806 809 821 TO 825 827 TO 830 834 TO 836 838 841 936 -
3979. 939 941 952 953 972 973 975 980 983 984 1001 1003 1004 1007 1008 1012 1017 -
3980. 1023 TO 1025 1028 1029 1031 1034 1046 TO 1050 1052 TO 1055 1059 TO 1061 -
3981. 1063 1066 7101 TO 7105 7107 TO 7111 7113 TO 7117 7202 7203 7206 7208 7209 -
3982. 7212 7214 7215 7218 7315 7317 7319 7344 7347 7350 7386 TO 7400 7470 TO 7481 -
3983. 7516 TO 7530 7626 TO 7640 7672 TO 7674 7804 TO 7806 7849
3984. _5THFLOOR150THK 1148 1151 1153 1164 1165 1184 1185 1187 1192 1195 1196 1207 -
3985. 1209 1221 TO 1225 1229 TO 1233 1236 1265 1278 1280 1287 1295 TO 1298 1301 -
3986. 1302 TO 1303 1312 1314 1317 7119 TO 7123 7220 7221 7223 7224 7321 7353 7401 -
3987. 7402 TO 7405 7482 TO 7485 7531 TO 7535 7641 TO 7645 7675 7782 7808 7809
3988. _6THFLOOR150THK 1403 1406 1408 1419 1420 1439 1440 1442 1447 1450 1451 1468 -
3989. 1485 1487 1488 1490 1491 1502 1504 TO 1507 1516 1517 1519 TO 1522 -
3990. 1526 TO 1530 1533 1546 1547 1549 1551 1553 1557 1562 1565 7125 TO 7129 7155 -
3991. 7156 7226 7227 7229 7230 7356 7406 TO 7410 7486 TO 7489 7536 TO 7540 7646 -
3992. 7647 TO 7650 7676 7677 7686 7789 TO 7791 7810 TO 7812
3993. _7THFLOOR150THK 1654 1657 1659 1670 1671 1690 1691 1693 1698 1701 1702 1707 -
3994. 1719 1725 1730 1744 TO 1747 1749 1750 1754 TO 1758 1760 1761 1774 1779 1780 -
3995. 1782 1785 1786 1788 1790 1793 1798 1802 7131 TO 7135 7157 7158 7232 7233 -
3996. 7235 7236 7359 7411 TO 7415 7490 TO 7493 7541 TO 7545 7596 7651 TO 7655 -
3997. 7678 7679 7687 7813 7814 7819
3998. _8THFLOOR150THK 1889 1892 1894 1905 1906 1925 1926 1928 1933 1936 1937 1954 -
3999. 1960 1964 1965 1979 TO 1985 1989 TO 1994 1996 2009 2014 2015 2017 2020 2021 -
4000. 2023 2025 2028 2033 2037 2041 2045 2046 7137 TO 7142 7159 7160 7238 7239 -
4001. 7241 7242 7362 7364 7416 TO 7420 7453 7454 7494 TO 7497 7546 TO 7550 7656 -
4002. 7657 TO 7660 7680 7681 7688 7825 7827 7830 7832
4003. _9THFLOOR150THK 2138 2141 2143 2154 2155 2174 2175 2177 2182 2185 2186 2203 -
4004. 2209 2213 2214 2228 2229 2231 TO 2234 2238 TO 2240 2242 2245 2258 -
4005. 2263 TO 2265 2269 2270 2272 2274 2277 2282 2286 2300 7143 TO 7147 7161 7162 -
4006. 7244 7245 7247 7248 7365 7368 7421 TO 7424 7457 7498 TO 7501 7661 TO 7665 -
4007. 7682 7683 7689 7840
4008. END GROUP DEFINITION
4009. ELEMENT PROPERTY
4010. 2858 TO 3433 3556 TO 4126 4262 TO 4832 5064 TO 5639 5871 TO 6446 -
4011. 6513 TO 7094 THICKNESS 0.23
4012. DEFINE MATERIAL START
4013. ISOTROPIC CONCRETE
4014. E 2.17185E+07
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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4015. POISSON 0.17
4016. DENSITY 23.5616
4017. ALPHA 1E-05
4018. DAMP 0.05
4019. G 9.28139E+06
4020. TYPE CONCRETE
4021. STRENGTH FCU 27579
4022. ISOTROPIC DUMMY
4023. E 100
4024. POISSON 0.3
4025. DENSITY 76.8195
4026. ALPHA 1.2E-05
4027. DAMP 0.03
4028. G 7.88462E+07
4029. TYPE STEEL
4030. STRENGTH RY 1.5 RT 1.2
4031. END DEFINE MATERIAL
4032. MEMBER PROPERTY
4033. 14 28 33 35 57 71 76 78 415 429 434 TO 437 439 441 640 654 659 TO 662 664 -
4034. 666 865 879 884 TO 887 889 891 1090 1104 1247 TO 1250 1252 1254 1332 1346 -
4035. 1351 TO 1354 1356 1358 1584 1598 1603 TO 1607 1609 1819 1833 1838 TO 1842 -
4036. 1844 2068 2082 2087 TO 2091 2093 2316 2330 2335 TO 2339 2341 7312 7314 7316 -
4037. 7318 7320 7322 TO 7327 7846 PRIS YD 0.3 ZD 0.8
4038. 7 22 TO 24 27 29 30 50 65 TO 67 70 72 73 402 TO 414 418 TO 420 423 TO 425 -
4039. 428 430 431 444 627 TO 639 643 TO 645 648 TO 650 653 655 656 669 852 TO 864 -
4040. 868 TO 870 873 TO 875 878 880 881 894 1077 TO 1089 1093 TO 1095 -
4041. 1098 TO 1100 1103 1105 1106 1257 1319 TO 1331 1335 TO 1337 1340 TO 1342 -
4042. 1345 1347 1348 1361 1571 TO 1583 1587 TO 1589 1592 TO 1594 1597 1599 1600 -
4043. 1612 1806 TO 1818 1822 TO 1824 1827 TO 1829 1832 1834 1835 1847 -
4044. 2055 TO 2067 2071 TO 2073 2076 TO 2078 2081 2083 2084 2096 2303 TO 2315 -
4045. 2319 TO 2321 2324 TO 2326 2329 2331 2332 2344 2563 TO 2565 2568 TO 2570 -
4046. 7272 7274 7276 7278 7280 7282 7284 7286 7288 7294 7296 7298 7300 7302 7304 -
4047. 7306 7308 7310 PRIS YD 0.8 ZD 0.3
4048. 87 TO 112 114 TO 117 120 TO 144 148 TO 153 155 TO 189 192 TO 198 200 TO 207 -
4049. 209 210 212 214 219 221 TO 232 234 236 238 249 252 253 257 258 261 263 270 -
4050. 272 273 280 282 300 310 313 327 348 394 TO 398 446 448 451 TO 464 466 468 -
4051. 470 481 484 489 490 493 495 502 504 505 510 512 514 532 542 545 671 673 676 -
4052. 677 TO 689 691 693 695 706 709 714 715 718 720 727 729 730 735 737 739 757 -
4053. 767 770 896 898 901 TO 914 916 918 920 931 934 939 940 943 945 952 954 955 -
4054. 960 962 964 982 992 995 1108 1110 1113 TO 1126 1128 1130 1132 1143 1146 -
4055. 1151 1152 1155 1157 1164 1166 1167 1172 1174 1176 1194 1196 1259 1286 1363 -
4056. 1365 1368 TO 1381 1383 1385 1387 1398 1401 1406 1407 1410 1412 1419 1421 -
4057. 1422 1427 1429 1431 1449 1459 1497 1544 1614 1619 1621 TO 1632 1634 1636 -
4058. 1638 1649 1657 1658 1661 1663 1670 1672 1673 1680 1682 1700 1702 1710 1732 -
4059. 1772 1849 1854 1856 TO 1867 1869 1871 1873 1884 1892 1893 1896 1898 1905 -
4060. 1907 1908 1915 1917 1935 1945 1967 2007 2098 2100 2103 TO 2116 2118 2120 -
4061. 2122 2133 2136 2141 2142 2145 2147 2154 2156 2157 2162 2164 2166 2184 2194 -
4062. 2216 2256 2295 2298 2346 2348 2351 TO 2357 2359 2361 2363 2370 2381 2384 -
4063. 2385 2389 2390 2393 2395 2402 2404 2405 2410 2414 2432 2464 2504 2539 -
4064. 2542 PRIS YD 0.6 ZD 0.23
4065. 1851 1855 1887 1913 2548 2554 7220 7232 7267 7271 7273 7275 7277 -
4066. 7781 PRIS YD 0.6 ZD 0.23
4067. 7279 7283 7289 7311 PRIS YD 0.6 ZD 0.23
4068. 213 215 TO 218 220 233 235 237 239 TO 248 250 251 254 TO 256 259 260 262 264 -
4069. 265 TO 269 274 TO 279 283 TO 293 298 299 301 304 TO 309 311 312 314 TO 316 -
4070. 319 321 TO 326 328 TO 347 349 TO 351 353 TO 390 392 393 400 401 445 447 449 -
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4071. 450 465 467 469 471 TO 480 482 483 486 TO 488 491 492 494 496 TO 501 503 -
4072. 506 TO 509 511 515 TO 525 530 531 533 534 536 TO 541 543 544 546 TO 548 551 -
4073. 553 TO 558 560 TO 579 581 TO 621 623 TO 626 670 672 674 675 690 692 694 696 -
4074. 697 TO 705 707 708 711 TO 713 716 717 719 721 TO 726 728 731 TO 734 736 740 -
4075. 741 TO 750 755 756 758 759 761 763 764 766 768 769 771 TO 773 776 778 TO 783 -
4076. 785 TO 804 806 TO 817 819 821 TO 830 832 TO 846 848 TO 851 895 897 899 900 -
4077. 915 917 919 921 TO 930 932 933 936 TO 938 941 942 944 946 TO 951 953 956 -
4078. 957 TO 959 961 965 TO 975 980 981 983 984 986 TO 991 993 994 996 TO 998 1001 -
4079. 1003 TO 1008 1010 TO 1029 1031 TO 1071 1073 TO 1076 1107 1109 1111 1112 -
4080. 1127 1129 1131 1133 TO 1142 1144 1145 1148 TO 1150 1153 1154 1156 -
4081. 1158 TO 1163 1165 1168 TO 1171 1173 1177 TO 1187 1192 1193 1195 1198 1200 -
4082. 1201 1203 TO 1205 1207 1209 1258 1282 1451 1458 1493 1548 1709 1731 1776 -
4083. 1937 2193 2215 2260 2441 PRIS YD 0.5 ZD 0.23
4084. 7849 TO 7851 PRIS YD 0.5 ZD 0.23
4085. 7847 PRIS YD 0.5 ZD 0.23
4086. 7838 PRIS YD 0.5 ZD 0.23
4087. 2443 2454 2455 2463 2508 2515 2519 7202 7208 7214 7226 7285 7287 7309 7842 -
4088. 7844 PRIS YD 0.5 ZD 0.23
4089. 2434 7238 7250 7281 7802 TO 7806 7808 7809 7815 TO 7817 PRIS YD 0.5 ZD 0.23
4090. 1210 TO 1217 1219 1221 TO 1225 1227 TO 1241 1243 1244 1260 TO 1262 -
4091. 1264 TO 1281 1283 TO 1285 1287 TO 1302 1304 1307 1310 1312 1313 1315 1317 -
4092. 1362 1364 1366 1367 7691 7695 7782 7784 7786 PRIS YD 0.5 ZD 0.23
4093. 7675 PRIS YD 0.5 ZD 0.23
4094. 7291 7293 7295 7297 7299 7313 7315 7317 7319 7321 7671 TO 7674 7676 TO 7690 -
4095. 7810 7813 7825 PRIS YD 0.5 ZD 0.23
4096. 1382 1384 1386 1388 TO 1397 1399 1400 1403 TO 1405 1408 1409 1411 -
4097. 1413 TO 1418 1420 1423 7255 TO 7260 PRIS YD 0.5 ZD 0.23
4098. 7198 7200 7203 7204 7209 7210 7215 7216 7221 7222 PRIS YD 0.5 ZD 0.23
4099. 2186 7156 7158 7160 7162 7164 7244 PRIS YD 0.5 ZD 0.23
4100. 1424 TO 1426 1428 1432 TO 1442 1447 1448 1450 1453 TO 1457 1460 TO 1465 1468 -
4101. 1476 1478 1481 1483 1485 TO 1488 1490 1491 1500 1502 1504 TO 1512 1516 1517 -
4102. 1519 TO 1538 1540 TO 1543 1545 TO 1547 1549 TO 1551 1553 1555 TO 1557 1559 -
4103. 1562 TO 1570 1613 1615 TO 1618 1620 1633 1635 1637 1639 TO 1648 -
4104. 1650 TO 1652 1654 TO 1656 1659 1660 1662 1664 TO 1669 1671 1674 TO 1679 -
4105. 1683 TO 1692 1698 1699 1701 1704 1706 1707 1711 TO 1716 1719 1721 TO 1730 -
4106. 1733 TO 1740 1742 1744 TO 1750 1752 TO 1766 1768 TO 1771 1773 TO 1775 1777 -
4107. 1778 TO 1785 1787 1789 TO 1794 1797 1798 1800 1802 TO 1805 1848 1850 1852 -
4108. 1853 1868 1870 1872 1874 TO 1883 1885 1886 1889 TO 1891 1894 1895 1897 1899 -
4109. 1900 TO 1904 1906 1909 TO 1912 1914 1918 TO 1927 1933 1934 1936 1939 TO 1944 -
4110. 1946 TO 1951 1954 1956 TO 1966 1968 TO 2001 2003 TO 2006 2008 TO 2026 2028 -
4111. 2029 2033 2035 2037 TO 2041 2043 2045 2046 2048 TO 2050 2052 2053 2097 2099 -
4112. 2101 2102 2117 2119 2121 2123 TO 2132 2134 2135 2138 TO 2140 2143 2144 2146 -
4113. 2148 TO 2153 2155 2158 TO 2161 2163 2167 TO 2176 2182 2183 2185 2188 2190 -
4114. 2191 2195 TO 2200 2203 2205 TO 2214 2217 TO 2224 2226 2228 TO 2234 -
4115. 2236 TO 2250 2252 TO 2255 2257 TO 2259 2261 TO 2265 2267 TO 2275 2277 2278 -
4116. 2282 TO 2289 2291 2292 2294 2297 2300 2345 2347 2349 2350 2365 2367 2369 -
4117. 2371 TO 2376 2378 2379 2382 2383 2386 PRIS YD 0.5 ZD 0.23
4118. 2387 2388 2391 2392 2394 2396 TO 2401 2403 2406 7829 7830 7832 TO 7836 7839 -
4119. 7840 TO 7841 PRIS YD 0.5 ZD 0.23
4120. 2407 TO 2409 2411 TO 2413 2415 TO 2417 2419 2420 2422 2424 7303 7789 TO 7792 -
4121. 7811 7812 7814 7818 TO 7824 7827 PRIS YD 0.5 ZD 0.23
4122. 2430 2431 2433 2436 TO 2440 2442 2444 TO 2448 2451 2453 7301 -
4123. 7848 PRIS YD 0.5 ZD 0.23
4124. 7305 7307 PRIS YD 0.5 ZD 0.23
4125. 2456 TO 2462 2465 TO 2496 2498 2500 TO 2503 2505 TO 2507 2509 TO 2513 2516 -
4126. 2517 TO 2518 2520 TO 2533 2535 2536 7261 TO 7266 7843 -
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4127. 7845 PRIS YD 0.5 ZD 0.23
4128. 7227 7228 7233 7234 7239 7240 7245 7246 7251 7692 TO 7694 7697 TO 7698 -
4129. 7699 PRIS YD 0.5 ZD 0.23
4130. 2538 7155 7157 7159 7161 7163 PRIS YD 0.5 ZD 0.23
4131. 1518 1693 1928 2177 2425 2541 2544 2547 2549 TO 2553 2555 TO 2559 2573 2578 -
4132. 2580 TO 2582 2585 2587 TO 2610 2626 2634 2636 5864 TO 5870 7104 TO 7106 -
4133. 7110 TO 7112 7116 TO 7118 7122 TO 7124 7134 TO 7136 7140 TO 7142 -
4134. 7146 TO 7148 7152 TO 7154 7344 TO 7355 7359 TO 7372 7386 TO 7405 -
4135. 7411 TO 7428 7435 TO 7446 7450 TO 7461 7470 TO 7485 7490 TO 7504 -
4136. 7505 PRIS YD 0.5 ZD 0.23
4137. 271 1303 1314 2293 2296 2299 2302 2537 2540 2543 2546 7095 TO 7103 -
4138. 7107 TO 7109 7113 TO 7115 7119 TO 7121 7125 TO 7133 7137 TO 7139 -
4139. 7143 TO 7145 7149 TO 7151 7190 TO 7195 7199 7201 7205 TO 7207 7211 TO 7213 -
4140. 7217 TO 7219 7223 TO 7225 7229 TO 7231 7235 TO 7237 7241 TO 7243 -
4141. 7247 TO 7249 7252 7254 7341 TO 7343 7356 TO 7358 7373 TO 7385 7406 TO 7410 -
4142. 7429 TO 7434 7447 TO 7449 7462 TO 7469 7486 TO 7489 7506 TO 7613 -
4143. 7616 TO 7670 7696 7793 TO 7801 PRIS YD 0.15 ZD 0.3
4144. 1 TO 6 8 TO 13 17 TO 19 44 TO 49 51 TO 56 60 TO 62 7268 7270 7290 -
4145. 7292 PRIS YD 0.8 ZD 0.3
4146. 34 36 38 40 43 77 79 81 83 86 PRIS YD 0.3 ZD 0.8
4147. 7329 TO 7334 PRIS YD 0.6 ZD 0.3
4148. 281 485 513 559 580 718 738 784 805 935 963 1009 1030 1147 1175 1402 1430 -
4149. 1653 1681 1888 1916 2137 2165 7269 PRIS YD 0.6 ZD 0.23
4150. 7700 TO 7780 PRIS YD 0.23 ZD 0.23
4151. 1786 1788 7783 PRIS YD 0.125 ZD 0.23
4152. CONSTANTS
4153. MATERIAL CONCRETE MEMB 1 TO 14 17 TO 19 22 TO 24 27 TO 30 33 TO 36 38 40 43 -
4154. 44 TO 57 60 TO 62 65 TO 67 70 TO 73 76 TO 79 81 83 86 TO 112 114 TO 117 120 -
4155. 121 TO 144 148 TO 153 155 TO 189 192 TO 198 200 TO 207 209 210 212 TO 270 -
4156. 272 TO 293 298 TO 301 304 TO 316 319 321 TO 351 353 TO 390 392 TO 398 400 -
4157. 401 TO 415 418 TO 420 423 TO 425 428 TO 431 434 TO 437 439 441 444 TO 525 -
4158. 530 TO 534 536 TO 548 551 553 TO 621 623 TO 640 643 TO 645 648 TO 650 653 -
4159. 654 TO 656 659 TO 662 664 666 669 TO 750 755 TO 759 761 763 764 766 TO 773 -
4160. 776 778 TO 817 819 821 TO 830 832 TO 846 848 TO 865 868 TO 870 873 TO 875 -
4161. 878 TO 881 884 TO 887 889 891 894 TO 975 980 TO 984 986 TO 998 1001 1003 -
4162. 1004 TO 1071 1073 TO 1090 1093 TO 1095 1098 TO 1100 1103 TO 1187 -
4163. 1192 TO 1196 1198 1200 1201 1203 TO 1205 1207 1209 TO 1217 1219 -
4164. 1221 TO 1225 1227 TO 1241 1243 1244 1247 TO 1250 1252 1254 1257 TO 1262 -
4165. 1264 TO 1302 1304 1307 1310 1312 1313 1315 1317 1319 TO 1332 1335 TO 1337 -
4166. 1340 TO 1342 1345 TO 1348 1351 TO 1354 1356 1358 1361 TO 1442 1447 TO 1451 -
4167. 1453 TO 1465 1468 1476 1478 1481 1483 1485 TO 1488 1490 1491 1493 1497 1500 -
4168. 1502 1504 TO 1512 1516 TO 1538 1540 TO 1551
4169. MATERIAL CONCRETE MEMB 1553 1555 TO 1557 1559 1562 TO 1584 1587 TO 1589 1592 -
4170. 1593 TO 1594 1597 TO 1600 1603 TO 1607 1609 1612 TO 1693 1698 TO 1702 1704 -
4171. 1706 1707 1709 TO 1716 1719 1721 TO 1740 1742 1744 TO 1750 1752 TO 1766 -
4172. 1768 TO 1794 1797 1798 1800 1802 TO 1819 1822 TO 1824 1827 TO 1829 -
4173. 1832 TO 1835 1838 TO 1842 1844 1847 TO 1928 1933 TO 1937 1939 TO 1951 1954 -
4174. 1956 TO 2001 2003 TO 2026 2028 2029 2033 2035 2037 TO 2041 2043 2045 2046 -
4175. 2048 TO 2050 2052 2053 2055 TO 2068 2071 TO 2073 2076 TO 2078 2081 TO 2084 -
4176. 2087 TO 2091 2093 2096 TO 2177 2182 TO 2186 2188 2190 2191 2193 TO 2200 -
4177. 2203 2205 TO 2224 2226 2228 TO 2234 2236 TO 2250 2252 TO 2265 2267 TO 2275 -
4178. 2277 2278 2282 TO 2289 2291 2292 2294 2295 2297 2298 2300 2303 TO 2316 2319 -
4179. 2320 TO 2321 2324 TO 2326 2329 TO 2332 2335 TO 2339 2341 2344 TO 2357 2359 -
4180. 2361 2363 2365 2367 2369 TO 2376 2378 2379 2381 TO 2417 2419 2420 2422 2424 -
4181. 2425 2430 TO 2434 2436 TO 2448 2451 2453 TO 2496 2498 2500 TO 2513 -
4182. 2515 TO 2533 2535 2536 2538 2539 2541 2542 2544 2547 TO 2559 2563 TO 2565 -
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SHOLINGANALLUR, CHENNAI - 600 119.

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4183. 2568 TO 2570 2573 2578 2580 TO 2582 2585 2587 TO 2610 2626 2634 2636 2858 -
4184. 2859 TO 3433 3556 TO 4126 4262 TO 4832 5064 TO 5639 5864 TO 6446 -
4185. 6513 TO 7094 7104 TO 7106 7110 TO 7112 7116 TO 7118 7122 TO 7124 -
4186. 7134 TO 7136 7140 TO 7142 7146 TO 7148 7152 TO 7164 7198 7200
4187. MATERIAL CONCRETE MEMB 7202 TO 7204 7208 TO 7210 7214 TO 7216 7220 TO 7222 -
4188. 7226 TO 7228 7232 TO 7234 7238 TO 7240 7244 TO 7246 7250 7251 7255 TO 7327 -
4189. 7329 TO 7334 7344 TO 7355 7359 TO 7372 7386 TO 7405 7411 TO 7428 -
4190. 7435 TO 7446 7450 TO 7461 7470 TO 7485 7490 TO 7505 7671 TO 7695 -
4191. 7697 TO 7699 7781 TO 7784 7786 7789 TO 7792 7802 TO 7806 7808 TO 7825 7827 -
4192. 7829 7830 7832 TO 7836 7838 TO 7851
4193. MATERIAL DUMMY MEMB 271 1303 1314 2293 2296 2299 2302 2537 2540 2543 2546 -
4194. 7095 TO 7103 7107 TO 7109 7113 TO 7115 7119 TO 7121 7125 TO 7133 -
4195. 7137 TO 7139 7143 TO 7145 7149 TO 7151 7190 TO 7195 7199 7201 7205 TO 7207 -
4196. 7211 TO 7213 7217 TO 7219 7223 TO 7225 7229 TO 7231 7235 TO 7237 -
4197. 7241 TO 7243 7247 TO 7249 7252 7254 7341 TO 7343 7356 TO 7358 7373 TO 7385 -
4198. 7406 TO 7410 7429 TO 7434 7447 TO 7449 7462 TO 7469 7486 TO 7489 -
4199. 7506 TO 7613 7616 TO 7670 7696 7700 TO 7780 7793 TO 7801
4200. SUPPORTS
4201. 1 TO 36 38 40 43 1751 TO 1755 2313 TO 2315 2850 TO 2852 3483 TO 3487 4134 -
4202. 4135 TO 4138 4619 TO 4623 5159 5171 5183 5196 FIXED
4203. CUT OFF MODE SHAPE 50
4204. DEFINE REFERENCE LOADS

** WARNING ** A SOFT MATERIAL WITH (1.0 / 2.172E+05) TIMES THE STIFFNESS OF
              CONCRETE ENTERED. PLEASE CHECK.

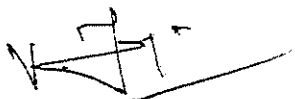

4205. LOAD R1 LOADTYPE MASS  TITLE REF MASS MODEL
4206. MEMBER LOAD
4207. 101 102 114 115 127 129 130 132 156 161 164 170 171 192 TO 194 197 -
4208. 201 TO 205 217 226 228 230 232 TO 237 239 241 TO 251 253 TO 255 259 264 266 -
4209. 267 269 271 TO 274 279 281 282 284 285 287 289 TO 291 321 TO 323 325 330 -
4210. 331 333 338 TO 340 342 343 345 TO 347 353 355 360 367 369 388 389 395 449 -
4211. 458 460 462 464 TO 469 471 473 TO 483 485 TO 487 491 496 498 499 501 503 -
4212. 504 TO 506 511 513 514 516 517 519 521 TO 523 553 TO 555 557 562 563 565 570 -
4213. 571 TO 572 574 575 577 TO 579 584 586 591 598 600 619 620 674 683 685 687 -
4214. 689 TO 694 696 698 TO 708 710 TO 712 716 721 723 724 726 728 TO 731 736 738 -
4215. 739 741 742 744 746 TO 748 778 TO 780 782 787 790 795 TO 797 799 800 802 -
4216. 803 TO 804 809 811 816 823 825 844 845 899 908 910 912 914 TO 919 921 923 -
4217. 924 TO 933 935 TO 937 941 946 948 949 951 953 TO 956 961 963 964 966 967 969 -
4218. 971 TO 973 1003 TO 1005 1007 1012 1013 1015 1020 TO 1022 1024 1025 -
4219. 1027 TO 1029 1034 1036 1041 1048 1050 1069 1070 1111 1120 1122 1124 1126 -
4220. 1127 TO 1131 1133 1135 TO 1145 1147 TO 1149 1153 1158 1160 1161 1163 1165 -
4221. 1166 TO 1168 1173 1175 1176 1178 1179 1181 1183 TO 1185 1211 1212 1216 1239 -
4222. 1240 1280 1292 1303 1312 1313 7311 7671 7695 UNI GX 5
4223. 101 102 114 115 127 129 130 132 156 161 164 170 171 192 TO 194 197 -
4224. 201 TO 205 217 226 228 230 232 TO 237 239 241 TO 251 253 TO 255 259 264 266 -
4225. 267 269 271 TO 274 279 281 282 284 285 287 289 TO 291 321 TO 323 325 330 -
4226. 331 333 338 TO 340 342 343 345 TO 347 353 355 360 367 369 388 389 395 449 -
4227. 458 460 462 464 TO 469 471 473 TO 483 485 TO 487 491 496 498 499 501 503 -
4228. 504 TO 506 511 513 514 516 517 519 521 TO 523 553 TO 555 557 562 563 565 570 -
4229. 571 TO 572 574 575 577 TO 579 584 586 591 598 600 619 620 674 683 685 687 -
4230. 689 TO 694 696 698 TO 708 710 TO 712 716 721 723 724 726 728 TO 731 736 738 -
4231. 739 741 742 744 746 TO 748 778 TO 780 782 787 790 795 TO 797 799 800 802 -
4232. 803 TO 804 809 811 816 823 825 844 845 899 908 910 912 914 TO 919 921 923 -
4233. 924 TO 933 935 TO 937 941 946 948 949 951 953 TO 956 961 963 964 966 967 969 -
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Mob: [illegible]

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4234. 971 TO 973 1003 TO 1005 1007 1012 1013 1015 1020 TO 1022 1024 1025 -
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4236. 1127 TO 1131 1133 1135 TO 1145 1147 TO 1149 1153 1158 1160 1161 1163 1165 -
4237. 1166 TO 1168 1173 1175 1176 1178 1179 1181 1183 TO 1185 1211 1212 1216 1239 -
4238. 1240 1280 1292 1303 1312 1313 7311 7671 7695 UNI GY 5
4239. 101 102 114 115 127 129 130 132 156 161 164 170 171 192 TO 194 197 -
4240. 201 TO 205 217 226 228 230 232 TO 237 239 241 TO 251 253 TO 255 259 264 266 -
4241. 267 269 271 TO 274 279 281 282 284 285 287 289 TO 291 321 TO 323 325 330 -
4242. 331 333 338 TO 340 342 343 345 TO 347 353 355 360 367 369 388 389 395 449 -
4243. 458 460 462 464 TO 469 471 473 TO 483 485 TO 487 491 496 498 499 501 503 -
4244. 504 TO 506 511 513 514 516 517 519 521 TO 523 553 TO 555 557 562 563 565 570 -
4245. 571 TO 572 574 575 577 TO 579 584 586 591 598 600 619 620 674 683 685 687 -
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4247. 739 741 742 744 746 TO 748 778 TO 780 782 787 790 795 TO 797 799 800 802 -
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4255. MEMBER LOAD
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4257. 1792 1797 7672 TO 7674 7821 UNI GY 5
4258. 1792 1797 7672 TO 7674 7821 UNI GZ 5
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4260. 2052 7198 7203 7209 7215 7221 7812 7820 TO 7824 7833 7836 7838 7839 UNI GX 5
4261. 2052 7198 7203 7209 7215 7221 7812 7820 TO 7824 7833 7836 7838 7839 UNI GY 5
4262. 2052 7198 7203 7209 7215 7221 7812 7820 TO 7824 7833 7836 7838 7839 UNI GZ 5
4263. MEMBER LOAD
4264. 1287 1302 1366 1375 1377 1379 1381 TO 1386 1388 1390 TO 1400 1403 1404 1408 -
4265. 1413 1415 1416 1418 1420 TO 1423 1428 1431 1433 1434 1436 1438 TO 1440 1483 -
4266. 1487 1488 1491 1508 1516 1517 1536 1537 1547 1549 1550 1553 1556 1557 1562 -
4267. 1564 1567 TO 1570 1617 1626 1628 1630 1632 TO 1637 1639 1641 TO 1651 1654 -
4268. 1655 1659 1664 1666 1667 1669 1671 TO 1674 1679 1682 1684 1685 1687 1689 -
4269. 1690 TO 1691 1724 1727 1728 1730 1739 1744 1745 1764 1765 1775 1777 1781 -
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4271. 1867 TO 1872 1874 1876 TO 1886 1889 1890 1894 1899 1901 1902 1904 -
4272. 1906 TO 1909 1914 1917 1919 1920 1922 1924 TO 1926 1959 1962 1963 1965 1974 -
4273. 1979 1980 1999 2000 2010 2012 2016 2017 2019 2020 2024 2025 2037 2038 2040 -
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4275. 2125 TO 2135 2138 2141 TO 2143 2148 2150 2151 2153 TO 2158 2163 2168 2169 -
4276. 2171 2173 2174 2208 2211 2212 2214 2223 2228 2229 2248 2259 2261 2265 2268 -
4277. 2269 TO 2270 2272 TO 2274 2283 2285 TO 2287 2289 2292 2294 2296 2297 2299 -
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3-S, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.

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4295. 7830 7832 7833 7835 7840 UNI GY 5
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4307. 2125 TO 2135 2138 2141 TO 2143 2148 2150 2151 2153 TO 2158 2163 2168 2169 -
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4311. 7830 7832 7833 7835 7840 UNI GZ 5
4312. MEMBER LOAD
4313. 137 138 142 150 162 165 198 209 210 213 TO 216 218 220 TO 225 227 231 238 -
4314. 252 256 260 TO 262 265 268 275 TO 278 280 283 286 292 298 TO 301 304 TO 306 -
4315. 309 310 312 TO 314 324 326 328 329 332 344 349 TO 351 356 TO 358 361 371 -
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4317. 453 TO 457 459 463 470 484 488 492 TO 494 497 500 507 TO 510 512 515 518 524 -
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4330. 252 256 260 TO 262 265 268 275 TO 278 280 283 286 292 298 TO 301 304 TO 306 -
4331. 309 310 312 TO 314 324 326 328 329 332 344 349 TO 351 356 TO 358 361 371 -
4332. 374 377 379 382 TO 384 386 387 392 393 396 TO 398 400 445 TO 448 450 452 -
4333. 453 TO 457 459 463 470 484 488 492 TO 494 497 500 507 TO 510 512 515 518 524 -
4334. 530 TO 533 536 TO 538 541 542 544 TO 546 556 558 560 561 564 576 581 TO 583 -
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4343. 1125 1132 1146 1150 1154 TO 1156 1159 1162 1169 TO 1172 1174 1177 1180 1186 -
4344. 1192 TO 1195 1198 7255 UNI GY 6
4345. 137 138 142 150 162 165 198 209 210 213 TO 216 218 220 TO 225 227 231 238 -
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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4346. 252 256 260 TO 262 265 268 275 TO 278 280 283 286 292 298 TO 301 304 TO 306 -
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4348. 374 377 379 382 TO 384 386 387 392 393 396 TO 398 400 445 TO 448 450 452 -
4349. 453 TO 457 459 463 470 484 488 492 TO 494 497 500 507 TO 510 512 515 518 524 -
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4362. 7691 UNI GX 6
4363. 7691 UNI GY 6
4364. 7691 UNI GZ 6
4365. MEMBER LOAD
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4367. 7269 7271 7273 7275 7291 7293 7295 7297 UNI GY 6
4368. 7269 7271 7273 7275 7291 7293 7295 7297 UNI GZ 6
4369. MEMBER LOAD
4370. 7260 UNI GX 6
4371. 7260 UNI GY 6
4372. 7260 UNI GZ 6
4373. MEMBER LOAD
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4375. 7200 7204 7210 7216 7222 UNI GY 6
4376. 7200 7204 7210 7216 7222 UNI GZ 6
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4378. 7156 7158 7160 7162 7164 UNI GX 6
4379. 7156 7158 7160 7162 7164 UNI GY 6
4380. 7156 7158 7160 7162 7164 UNI GZ 6
4381. MEMBER LOAD
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4384. 1362 TO 1365 1367 1369 TO 1374 1376 1380 1387 1401 1405 1409 TO 1411 1414 -
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4401. 7829 7834 UNI GX 6
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4419. 2220 TO 2221 2224 2231 2234 2237 2239 2242 TO 2244 2246 2247 7228 7261 7264 -
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4421. 7829 7834 UNI GY 6
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4423. 1258 1259 1261 1262 1270 1272 1275 1282 1289 1293 1294 1299 1315 -
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4441. 7829 7834 UNI GZ 6
4442. MEMBER LOAD
4443. 7783 7818 UNI GX 6
4444. 7783 7818 UNI GY 6
4445. 7783 7818 UNI GZ 6
4446. MEMBER LOAD
4447. 7279 7281 7283 7285 7299 7301 7303 7305 UNI GX 6
4448. 7279 7281 7283 7285 7299 7301 7303 7305 UNI GY 6
4449. 7279 7281 7283 7285 7299 7301 7303 7305 UNI GZ 6
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4451. 7234 7240 7246 UNI GX 6
4452. 7234 7240 7246 UNI GY 6
4453. 7234 7240 7246 UNI GZ 6
4454. MEMBER LOAD
4455. 2252 TO 2254 2257 2258 2260 2264 2267 2271 2275 2278 2284 2288 2293 2295 -
4456. 2298 2433 2476 2477 2479 2482 2487 2490 TO 2492 2494 2500 2501 7307 7789 -
4457. 7841 UNI GX 6
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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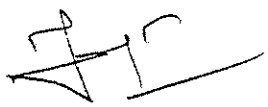
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4464. MEMBER LOAD
4465. 92 117 121 124 128 131 133 TO 136 141 143 144 160 163 175 207 257 258 270 -
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4473. 1754 1757 1766 1892 1893 1905 1928 1937 1950 1951 1960 1961 1964 1973 1983 -
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4480. 547 548 566 TO 569 573 590 597 599 603 604 607 609 612 621 714 715 727 759 -
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4491. 92 117 121 124 128 131 133 TO 136 141 143 144 160 163 175 207 257 258 270 -
4492. 315 316 334 TO 337 341 359 366 368 372 373 376 378 381 390 489 490 502 534 -
4493. 547 548 566 TO 569 573 590 597 599 603 604 607 609 612 621 714 715 727 759 -
4494. 772 773 791 TO 794 798 815 822 824 828 829 832 834 837 846 939 940 952 984 -
4495. 997 998 1016 TO 1019 1023 1040 1047 1049 1053 1054 1057 1059 1062 1071 1151 -
4496. 1152 1164 1196 1204 1205 1209 1210 1213 1215 1223 1224 1227 1229 1232 1241 -
4497. 1406 1407 1419 1451 1464 1465 1485 1486 1490 1507 1520 1521 1524 1526 1529 -
4498. 1538 1657 1658 1670 1693 1702 1715 1716 1725 1726 1729 1738 1748 1749 1752 -
4499. 1754 1757 1766 1892 1893 1905 1928 1937 1950 1951 1960 1961 1964 1973 1983 -
4500. 1984 1987 1989 1992 2001 2177 2186 2199 2200 2209 2210 2213 2222 2232 2233 -
4501. 2236 2238 2241 2250 2425 2447 2448 2457 2458 2461 2470 2471 2480 2481 2484 -
4502. 2486 2489 2498 7155 7157 7159 7161 7163 7202 7208 7214 7220 7226 7232 7238 -
4503. 7244 7313 7315 7317 7319 7802 7804 7806 7808 7849 UNI GZ 7
4504. MEMBER LOAD
4505. 307 308 327 338 339 348 362 TO 364 375 380 385 539 540 559 570 571 580 591 -
4506. 593 TO 595 606 611 616 764 784 795 796 805 816 819 836 841 989 990 1009 -
4507. 1020 1021 1030 1041 1043 TO 1045 1056 1061 1066 1201 1211 1212 1216 1219 -
4508. 1231 1236 1402 1430 1456 1457 1487 1488 1497 1508 1510 TO 1512 1523 1528 -
4509. 1533 1544 1653 1681 1707 1727 1728 1732 1739 1742 1756 1761 1772 1888 1916 -
4510. 1942 1943 1962 1963 1967 1974 1976 TO 1978 1986 1991 1996 2007 2137 2165 -
4511. 2191 2211 2212 2216 2223 2226 2240 2245 2256 2345 TO 2348 2352 TO 2355 2357 -
4512. 2359 2363 2370 2385 2410 2412 2413 2424 2430 TO 2432 2436 TO 2439 -
4513. 2441 TO 2446 2453 TO 2455 2463 TO 2469 2472 TO 2474 2483 2488 2493 2495 -
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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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4514. 2502 TO 2504 2508 2515 2519 2523 2525 2528 2532 2539 2542 7251 7256 TO 7259 -
4515. 7262 7263 7265 7266 7287 7309 7845 UNI GX 3
4516. 307 308 327 338 339 348 362 TO 364 375 380 385 539 540 559 570 571 580 591 -
4517. 593 TO 595 606 611 616 764 784 795 796 805 816 819 836 841 989 990 1009 -
4518. 1020 1021 1030 1041 1043 TO 1045 1056 1061 1066 1201 1211 1212 1216 1219 -
4519. 1231 1236 1402 1430 1456 1457 1487 1488 1497 1508 1510 TO 1512 1523 1528 -
4520. 1533 1544 1653 1681 1707 1727 1728 1732 1739 1742 1756 1761 1772 1888 1916 -
4521. 1942 1943 1962 1963 1967 1974 1976 TO 1978 1986 1991 1996 2007 2137 2165 -
4522. 2191 2211 2212 2216 2223 2226 2240 2245 2256 2345 TO 2348 2352 TO 2355 2357 -
4523. 2359 2363 2370 2385 2410 2412 2413 2424 2430 TO 2432 2436 TO 2439 -
4524. 2441 TO 2446 2453 TO 2455 2463 TO 2469 2472 TO 2474 2483 2488 2493 2495 -
4525. 2502 TO 2504 2508 2515 2519 2523 2525 2528 2532 2539 2542 7251 7256 TO 7259 -
4526. 7262 7263 7265 7266 7287 7309 7845 UNI GY 3
4527. 307 308 327 338 339 348 362 TO 364 375 380 385 539 540 559 570 571 580 591 -
4528. 593 TO 595 606 611 616 764 784 795 796 805 816 819 836 841 989 990 1009 -
4529. 1020 1021 1030 1041 1043 TO 1045 1056 1061 1066 1201 1211 1212 1216 1219 -
4530. 1231 1236 1402 1430 1456 1457 1487 1488 1497 1508 1510 TO 1512 1523 1528 -
4531. 1533 1544 1653 1681 1707 1727 1728 1732 1739 1742 1756 1761 1772 1888 1916 -
4532. 1942 1943 1962 1963 1967 1974 1976 TO 1978 1986 1991 1996 2007 2137 2165 -
4533. 2191 2211 2212 2216 2223 2226 2240 2245 2256 2345 TO 2348 2352 TO 2355 2357 -
4534. 2359 2363 2370 2385 2410 2412 2413 2424 2430 TO 2432 2436 TO 2439 -
4535. 2441 TO 2446 2453 TO 2455 2463 TO 2469 2472 TO 2474 2483 2488 2493 2495 -
4536. 2502 TO 2504 2508 2515 2519 2523 2525 2528 2532 2539 2542 7251 7256 TO 7259 -
4537. 7262 7263 7265 7266 7287 7309 7845 UNI GZ 3
4538. MEMBER LOAD
4539. 120 148 149 151 293 319 370 525 551 601 750 776 826 975 1001 1051 1187 1207 -
4540. 1221 1442 1468 1518 1693 1719 1746 1928 1954 1981 2177 2203 2230 2425 2451 -
4541. 2478 UNI GX 13
4542. 120 148 149 151 293 319 370 525 551 601 750 776 826 975 1001 1051 1187 1207 -
4543. 1221 1442 1468 1518 1693 1719 1746 1928 1954 1981 2177 2203 2230 2425 2451 -
4544. 2478 UNI GY 13
4545. 120 148 149 151 293 319 370 525 551 601 750 776 826 975 1001 1051 1187 1207 -
4546. 1221 1442 1468 1518 1693 1719 1746 1928 1954 1981 2177 2203 2230 2425 2451 -
4547. 2478 UNI GZ 13
4548. FLOOR LOAD
4549. YRANGE 4.2 35.7 FLOAD 3.125 GX
4550. YRANGE 4.2 35.7 FLOAD 3.125 GY
4551. YRANGE 4.2 35.7 FLOAD 3.125 GZ
4552. FLOOR LOAD
4553. _2TO4UTILITYSUNK FLOAD 6.9 GX
4554. _2TO4UTILITYSUNK FLOAD 6.9 GY
4555. _2TO4UTILITYSUNK FLOAD 6.9 GZ
4556. FLOOR LOAD
4557. _5THUTILITYSUNK FLOAD 6.9 GX
4558. _5THUTILITYSUNK FLOAD 6.9 GY
4559. _5THUTILITYSUNK FLOAD 6.9 GZ
4560. FLOOR LOAD
4561. _6THFLOORUTILITY FLOAD 6.9 GX
4562. _6THFLOORUTILITY FLOAD 6.9 GY
4563. _6THFLOORUTILITY FLOAD 6.9 GZ
4564. FLOOR LOAD
4565. _7THFLOORUTILITY FLOAD 6.9 GX
4566. _7THFLOORUTILITY FLOAD 6.9 GY
4567. _7THFLOORUTILITY FLOAD 6.9 GZ
4568. FLOOR LOAD
4569. _8THFLOORUTILITY FLOAD 6.9 GX
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4570. _8THFLOORUTILITY FLOAD 6.9 GY
4571. _8THFLOORUTILITY FLOAD 6.9 GZ
4572. FLOOR LOAD
4573. _9THFLOORUTILITY FLOAD 6.9 GX
4574. _9THFLOORUTILITY FLOAD 6.9 GY
4575. _9THFLOORUTILITY FLOAD 6.9 GZ
4576. FLOOR LOAD
4577. YRANGE 4.2 35.7 FLOAD 1.2 GX
4578. YRANGE 4.2 35.7 FLOAD 1.2 GY
4579. YRANGE 4.2 35.7 FLOAD 1.2 GZ
4580. FLOOR LOAD
4581. YRANGE 32 32.4 FLOAD 2.4 GX
4582. YRANGE 32 32.4 FLOAD 2.4 GY
4583. YRANGE 32 32.4 FLOAD 2.4 GZ
4584. FLOOR LOAD
4585. _1STFLOORSUNKEN FLOAD 6.9 GX
4586. _1STFLOORSUNKEN FLOAD 6.9 GY
4587. _1STFLOORSUNKEN FLOAD 6.9 GZ
4588. FLOOR LOAD
4589. _WT FLOAD 20 GX
4590. _WT FLOAD 20 GY
4591. _WT FLOAD 20 GZ
4592. FLOOR LOAD
4593. YRANGE 36.2 36.6 FLOAD 20 GX
4594. YRANGE 36.2 36.6 FLOAD 20 GY
4595. YRANGE 36.2 36.6 FLOAD 20 GZ
4596. FLOOR LOAD
4597. _1STFLOOR150THK FLOAD 0.625 GX
4598. _1STFLOOR150THK FLOAD 0.625 GY
4599. _1STFLOOR150THK FLOAD 0.625 GZ
4600. FLOOR LOAD
4601. _2-4FLOOR150THK FLOAD 0.625 GX
4602. _2-4FLOOR150THK FLOAD 0.625 GY
4603. _2-4FLOOR150THK FLOAD 0.625 GZ
4604. FLOOR LOAD
4605. _5THFLOOR150THK FLOAD 0.625 GX
4606. _5THFLOOR150THK FLOAD 0.625 GY
4607. _5THFLOOR150THK FLOAD 0.625 GZ
4608. FLOOR LOAD
4609. _6THFLOOR150THK FLOAD 0.625 GX
4610. _6THFLOOR150THK FLOAD 0.625 GY
4611. _6THFLOOR150THK FLOAD 0.625 GZ
4612. FLOOR LOAD
4613. _7THFLOOR150THK FLOAD 0.625 GX
4614. _7THFLOOR150THK FLOAD 0.625 GY
4615. _7THFLOOR150THK FLOAD 0.625 GZ
4616. FLOOR LOAD
4617. _8THFLOOR150THK FLOAD 0.625 GX
4618. _8THFLOOR150THK FLOAD 0.625 GY
4619. _8THFLOOR150THK FLOAD 0.625 GZ
4620. FLOOR LOAD
4621. _9THFLOOR150THK FLOAD 0.625 GX
4622. _9THFLOOR150THK FLOAD 0.625 GY
4623. _9THFLOOR150THK FLOAD 0.625 GZ
4624. SELFWEIGHT X 1 LIST 1 TO 14 17 TO 19 22 TO 24 27 TO 30 33 TO 36 38 40 -
4625. 43 TO 57 60 TO 62 65 TO 67 70 TO 73 76 TO 79 81 83 86 TO 112 114 TO 117 120 -
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4626. 121 TO 144 148 TO 153 155 TO 189 192 TO 198 200 TO 207 209 210 212 TO 293 -
4627. 298 TO 301 304 TO 316 319 321 TO 351 353 TO 390 392 TO 398 400 TO 415 418 -
4628. 419 TO 420 423 TO 425 428 TO 431 434 TO 437 439 441 444 TO 525 530 TO 534 -
4629. 536 TO 548 551 553 TO 621 623 TO 640 643 TO 645 648 TO 650 653 TO 656 659 -
4630. 660 TO 662 664 666 669 TO 750 755 TO 759 761 763 764 766 TO 773 776 -
4631. 778 TO 817 819 821 TO 830 832 TO 846 848 TO 865 868 TO 870 873 TO 875 878 -
4632. 879 TO 881 884 TO 887 889 891 894 TO 975 980 TO 984 986 TO 998 1001 -
4633. 1003 TO 1071 1073 TO 1090 1093 TO 1095 1098 TO 1100 1103 TO 1187 -
4634. 1192 TO 1196 1198 1200 1201 1203 TO 1205 1207 1209 TO 1217 1219 -
4635. 1221 TO 1225 1227 TO 1241 1243 1244 1247 TO 1250 1252 1254 1257 TO 1262 -
4636. 1264 TO 1304 1307 1310 1312 TO 1315 1317 1319 TO 1332 1335 TO 1337 -
4637. 1340 TO 1342 1345 TO 1348 1351 TO 1354 1356 1358 1361 TO 1442 1447 TO 1451 -
4638. 1453 TO 1465 1468 1476 1478 1481 1483 1485 TO 1488 1490 1491 1493 1497 1500 -
4639. 1502 1504 TO 1512 1516 TO 1538 1540 TO 1551 1553 1555 TO 1557
4640. SELFWEIGHT X 1 LIST 1559 1562 TO 1584 1587 TO 1589 1592 TO 1594 1597 TO 1600 -
4641. 1603 TO 1607 1609 1612 TO 1693 1698 TO 1702 1704 1706 1707 1709 TO 1716 -
4642. 1719 1721 TO 1740 1742 1744 TO 1750 1752 TO 1766 1768 TO 1794 1797 1798 -
4643. 1800 1802 TO 1819 1822 TO 1824 1827 TO 1829 1832 TO 1835 1838 TO 1842 1844 -
4644. 1847 TO 1928 1933 TO 1937 1939 TO 1951 1954 1956 TO 2001 2003 TO 2026 2028 -
4645. 2029 2033 2035 2037 TO 2041 2043 2045 2046 2048 TO 2050 2052 2053 -
4646. 2055 TO 2068 2071 TO 2073 2076 TO 2078 2081 TO 2084 2087 TO 2091 2093 2096 -
4647. 2097 TO 2177 2182 TO 2186 2188 2190 2191 2193 TO 2200 2203 2205 TO 2224 2226 -
4648. 2228 TO 2234 2236 TO 2250 2252 TO 2265 2267 TO 2275 2277 2278 2282 TO 2289 -
4649. 2291 TO 2300 2302 TO 2316 2319 TO 2321 2324 TO 2326 2329 TO 2332 -
4650. 2335 TO 2339 2341 2344 TO 2357 2359 2361 2363 2365 2367 2369 TO 2376 2378 -
4651. 2379 2381 TO 2417 2419 2420 2422 2424 2425 2430 TO 2434 2436 TO 2448 2451 -
4652. 2453 TO 2496 2498 2500 TO 2513 2515 TO 2533 2535 TO 2544 2546 TO 2559 2563 -
4653. 2564 TO 2565 2568 TO 2570 2573 2578 2580 TO 2582 2585 2587 TO 2610 2626 2634 -
4654. 2636 2858 TO 3433 3556 TO 4126 4262 TO 4832 5064 TO 5639 5864 TO 6446 6513 -
4655. 6514 TO 7164 7190 TO 7195 7198 TO 7252 7254 TO 7327 7329 TO 7334 -
4656. 7341 TO 7613 7616 TO 7784 7786 7789 TO 7806 7808 TO 7825 7827 7829 7830 -
4657. 7832 TO 7836 7838 TO 7849
4658. SELFWEIGHT Y 1 LIST 1 TO 14 17 TO 19 22 TO 24 27 TO 30 33 TO 36 38 40 -
4659. 43 TO 57 60 TO 62 65 TO 67 70 TO 73 76 TO 79 81 83 86 TO 112 114 TO 117 120 -
4660. 121 TO 144 148 TO 153 155 TO 189 192 TO 198 200 TO 207 209 210 212 TO 293 -
4661. 298 TO 301 304 TO 316 319 321 TO 351 353 TO 390 392 TO 398 400 TO 415 418 -
4662. 419 TO 420 423 TO 425 428 TO 431 434 TO 437 439 441 444 TO 525 530 TO 534 -
4663. 536 TO 548 551 553 TO 621 623 TO 640 643 TO 645 648 TO 650 653 TO 656 659 -
4664. 660 TO 662 664 666 669 TO 750 755 TO 759 761 763 764 766 TO 773 776 -
4665. 778 TO 817 819 821 TO 830 832 TO 846 848 TO 865 868 TO 870 873 TO 875 878 -
4666. 879 TO 881 884 TO 887 889 891 894 TO 975 980 TO 984 986 TO 998 1001 -
4667. 1003 TO 1071 1073 TO 1090 1093 TO 1095 1098 TO 1100 1103 TO 1187 -
4668. 1192 TO 1196 1198 1200 1201 1203 TO 1205 1207 1209 TO 1217 1219 -
4669. 1221 TO 1225 1227 TO 1241 1243 1244 1247 TO 1250 1252 1254 1257 TO 1262 -
4670. 1264 TO 1304 1307 1310 1312 TO 1315 1317 1319 TO 1332 1335 TO 1337 -
4671. 1340 TO 1342 1345 TO 1348 1351 TO 1354 1356 1358 1361 TO 1442 1447 TO 1451 -
4672. 1453 TO 1465 1468 1476 1478 1481 1483 1485 TO 1488 1490 1491 1493 1497 1500 -
4673. 1502 1504 TO 1512 1516 TO 1538 1540 TO 1551 1553 1555 TO 1557
4674. SELFWEIGHT Y 1 LIST 1559 1562 TO 1584 1587 TO 1589 1592 TO 1594 1597 TO 1600 -
4675. 1603 TO 1607 1609 1612 TO 1693 1698 TO 1702 1704 1706 1707 1709 TO 1716 -
4676. 1719 1721 TO 1740 1742 1744 TO 1750 1752 TO 1766 1768 TO 1794 1797 1798 -
4677. 1800 1802 TO 1819 1822 TO 1824 1827 TO 1829 1832 TO 1835 1838 TO 1842 1844 -
4678. 1847 TO 1928 1933 TO 1937 1939 TO 1951 1954 1956 TO 2001 2003 TO 2026 2028 -
4679. 2029 2033 2035 2037 TO 2041 2043 2045 2046 2048 TO 2050 2052 2053 -
4680. 2055 TO 2068 2071 TO 2073 2076 TO 2078 2081 TO 2084 2087 TO 2091 2093 2096 -
4681. 2097 TO 2177 2182 TO 2186 2188 2190 2191 2193 TO 2200 2203 2205 TO 2224 2226 -
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3-B, RAMANIYAM GAURAVV - 2
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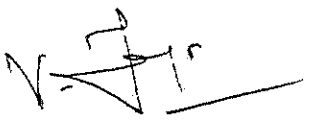
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4682. 2228 TO 2234 2236 TO 2250 2252 TO 2265 2267 TO 2275 2277 2278 2282 TO 2289 -
4683. 2291 TO 2300 2302 TO 2316 2319 TO 2321 2324 TO 2326 2329 TO 2332 -
4684. 2335 TO 2339 2341 2344 TO 2357 2359 2361 2363 2365 2367 2369 TO 2376 2378 -
4685. 2379 2381 TO 2417 2419 2420 2422 2424 2425 2430 TO 2434 2436 TO 2448 2451 -
4686. 2453 TO 2496 2498 2500 TO 2513 2515 TO 2533 2535 TO 2544 2546 TO 2559 2563 -
4687. 2564 TO 2565 2568 TO 2570 2573 2578 2580 TO 2582 2585 2587 TO 2610 2626 2634 -
4688. 2636 2858 TO 3433 3556 TO 4126 4262 TO 4832 5064 TO 5639 5864 TO 6446 6513 -
4689. 6514 TO 7164 7190 TO 7195 7198 TO 7252 7254 TO 7327 7329 TO 7334 -
4690. 7341 TO 7613 7616 TO 7784 7786 7789 TO 7806 7808 TO 7825 7827 7829 7830 -
4691. 7832 TO 7836 7838 TO 7849
4692. SELFWEIGHT Z 1 LIST 1 TO 14 17 TO 19 22 TO 24 27 TO 30 33 TO 36 38 40 -
4693. 43 TO 57 60 TO 62 65 TO 67 70 TO 73 76 TO 79 81 83 86 TO 112 114 TO 117 120 -
4694. 121 TO 144 148 TO 153 155 TO 189 192 TO 198 200 TO 207 209 210 212 TO 293 -
4695. 298 TO 301 304 TO 316 319 321 TO 351 353 TO 390 392 TO 398 400 TO 415 418 -
4696. 419 TO 420 423 TO 425 428 TO 431 434 TO 437 439 441 444 TO 525 530 TO 534 -
4697. 536 TO 548 551 553 TO 621 623 TO 640 643 TO 645 648 TO 650 653 TO 656 659 -
4698. 660 TO 662 664 666 669 TO 750 755 TO 759 761 763 764 766 TO 773 776 -
4699. 778 TO 817 819 821 TO 830 832 TO 846 848 TO 865 868 TO 870 873 TO 875 878 -
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4702. 1192 TO 1196 1198 1200 1201 1203 TO 1205 1207 1209 TO 1217 1219 -
4703. 1221 TO 1225 1227 TO 1241 1243 1244 1247 TO 1250 1252 1254 1257 TO 1262 -
4704. 1264 TO 1304 1307 1310 1312 TO 1315 1317 1319 TO 1332 1335 TO 1337 -
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4706. 1453 TO 1465 1468 1476 1478 1481 1483 1485 TO 1488 1490 1491 1493 1497 1500 -
4707. 1502 1504 TO 1512 1516 TO 1538 1540 TO 1551 1553 1555 TO 1557
4708. SELFWEIGHT Z 1 LIST 1559 1562 TO 1584 1587 TO 1589 1592 TO 1594 1597 TO 1600 -
4709. 1603 TO 1607 1609 1612 TO 1693 1698 TO 1702 1704 1706 1707 1709 TO 1716 -
4710. 1719 1721 TO 1740 1742 1744 TO 1750 1752 TO 1766 1768 TO 1794 1797 1798 -
4711. 1800 1802 TO 1819 1822 TO 1824 1827 TO 1829 1832 TO 1835 1838 TO 1842 1844 -
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4714. 2055 TO 2068 2071 TO 2073 2076 TO 2078 2081 TO 2084 2087 TO 2091 2093 2096 -
4715. 2097 TO 2177 2182 TO 2186 2188 2190 2191 2193 TO 2200 2203 2205 TO 2224 2226 -
4716. 2228 TO 2234 2236 TO 2250 2252 TO 2265 2267 TO 2275 2277 2278 2282 TO 2289 -
4717. 2291 TO 2300 2302 TO 2316 2319 TO 2321 2324 TO 2326 2329 TO 2332 -
4718. 2335 TO 2339 2341 2344 TO 2357 2359 2361 2363 2365 2367 2369 TO 2376 2378 -
4719. 2379 2381 TO 2417 2419 2420 2422 2424 2425 2430 TO 2434 2436 TO 2448 2451 -
4720. 2453 TO 2496 2498 2500 TO 2513 2515 TO 2533 2535 TO 2544 2546 TO 2559 2563 -
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4722. 2636 2858 TO 3433 3556 TO 4126 4262 TO 4832 5064 TO 5639 5864 TO 6446 6513 -
4723. 6514 TO 7164 7190 TO 7195 7198 TO 7252 7254 TO 7327 7329 TO 7334 -
4724. 7341 TO 7613 7616 TO 7784 7786 7789 TO 7806 7808 TO 7825 7827 7829 7830 -
4725. 7832 TO 7836 7838 TO 7849
4726. FLOOR LOAD
4727. YRANGE 4.2 29.2 FLOAD 0.5 GX
4728. YRANGE 4.2 29.2 FLOAD 0.5 GY
4729. YRANGE 4.2 29.2 FLOAD 0.5 GZ
4730. FLOOR LOAD
4731. _2TO4BALCONYSUNK FLOAD 0.25 GX
4732. _2TO4BALCONYSUNK FLOAD 0.25 GY
4733. _2TO4BALCONYSUNK FLOAD 0.25 GZ
4734. FLOOR LOAD
4735. _5THBALCONYSUNK FLOAD 0.25 GX
4736. _5THBALCONYSUNK FLOAD 0.25 GY
4737. _5THBALCONYSUNK FLOAD 0.25 GZ
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4738. FLOOR LOAD
4739. _6THFLOORBALCONY FLOAD 0.25 GX
4740. _6THFLOORBALCONY FLOAD 0.25 GY
4741. _6THFLOORBALCONY FLOAD 0.25 GZ
4742. FLOOR LOAD
4743. _7THFLOORBALCONY FLOAD 0.25 GX
4744. _7THFLOORBALCONY FLOAD 0.25 GY
4745. _7THFLOORBALCONY FLOAD 0.25 GZ
4746. FLOOR LOAD
4747. _8THFLOORBALCONY FLOAD 0.25 GX
4748. _8THFLOORBALCONY FLOAD 0.25 GY
4749. _8THFLOORBALCONY FLOAD 0.25 GZ
4750. FLOOR LOAD
4751. _9THFLOORBALCONY FLOAD 0.25 GX
4752. _9THFLOORBALCONY FLOAD 0.25 GY
4753. _9THFLOORBALCONY FLOAD 0.25 GZ
4754. FLOOR LOAD
4755. _1STFLOORBALCONY FLOAD 0.25 GX
4756. _1STFLOORBALCONY FLOAD 0.25 GY
4757. _1STFLOORBALCONY FLOAD 0.25 GZ
4758. FLOOR LOAD
4759. _STAIRCASE FLOAD 0.25 GX
4760. _STAIRCASE FLOAD 0.25 GY
4761. _STAIRCASE FLOAD 0.25 GZ
4762. END DEFINE REFERENCE LOADS

 *** NOTE: MASS MODEL FORMED WILL BE USED IN SEISMIC/RESPONSE/TIME HISTORY LOADING, IF ANY.
           IF MASS MODEL IS SEPARATELY PROVIDED IN INDIVIDUAL LOADING, THE GENERATED MASS
           WILL BE REPLACED BY THE MASS PROVIDED IN INDIVIDUAL LOADING.

4763. FLOOR DIAPHRAGM
4764. DIA 1 TYPE RIG HEI 4.3
4765. DIA 2 TYPE RIG HEI 7.4
4766. DIA 3 TYPE RIG HEI 10.5
4767. DIA 4 TYPE RIG HEI 13.6
4768. DIA 5 TYPE RIG HEI 16.7
4769. DIA 6 TYPE RIG HEI 19.8
4770. DIA 7 TYPE RIG HEI 22.9
4771. DIA 8 TYPE RIG HEI 26
4772. DIA 9 TYPE RIG HEI 29.1
4773. DIA 10 TYPE RIG HEI 32.2
4774. DIA 11 TYPE RIG HEI 35.3
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FLOOR DIAPHRAGM

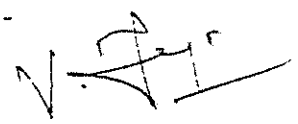
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FLOOR DIAPHRAGM UNIT - KN METE

NO.	TYPE	FL. LEVEL	FL. WT	CENTRE OF MASS X	Z	CONTROL JOINT NO.
1	RIGID	4.300	5702.40	6.023	13.930	5257
2	RIGID	7.400	5773.79	6.012	14.013	5258
3	RIGID	10.500	5637.77	5.981	13.887	5259
4	RIGID	13.600	5852.43	6.087	14.088	5260
5	RIGID	16.700	5455.48	6.015	13.477	5261
6	RIGID	19.800	5739.72	5.979	13.859	5262
7	RIGID	22.900	5666.35	6.020	13.830	5263
8	RIGID	26.000	5501.33	5.985	13.581	5264
9	RIGID	29.100	5565.85	6.050	13.857	5265
10	RIGID	32.200	4771.62	6.113	14.275	5266
11	RIGID	35.300	898.21	6.400	17.187	5267

****

```
4776. DEFINE IS1893 2016 LOAD
4777. ZONE 0.16 RF 5 I 1 SS 2 ST 1 DM 0.05 PX 0.69 PZ 0.53
4778. DEFINE WIND LOAD
4779. TYPE 1 IS875 RECT CLAD (+X)
4780. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
4781. IS875-2015:PARAMS 1 0 0 36.550 0.000 5.000 0 CHENNAI 50.000 0 1.000 2 9 -
4782. 0.910 0.910 0.910 0.970 1.010 1.035 1.060 1.075 1.080 1.000 2 1.000 0.200 0 -
4783. 16.020 27.540 36.550 1 1 1 0.200 0 0 4 0 4 1.000 0.000 0.000 0.000 NA NA 6 -
4784. 0.000 0.000 0.000 0.000 0.000 0.000 1 1 4 0.000 1.000 0.000 0.000 NA NA 6 -
4785. 0.000 0.000 0.000 0.000 0.000 0.000 1 2 4 0.000 0.000 1.000 0.000 NA NA 6 -
4786. 0.000 0.000 0.000 0.000 0.000 0.000 1 3 4 0.000 0.000 0.000 1.000 NA NA 6 -
4787. 0.000 0.000 0.000 0.000 0.000 0.000 1 0.900 1.000 0.900 TYPES 4 1 2 3 4 -
4788. LOADS 4 13 14 15 16
4789. !> END GENERATED DATA BLOCK
4790. INT 1.00614 1.00614 1.00614 1.14319 1.23942 1.30154 1.36517 1.40408 1.41626 -
4791. HEIG 0 5 10 15 20 25 30 35 36.55
4792. TYPE 2 IS875 RECT CLAD (-X)
4793. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
4794. IS875-2015:PARAMS 1 1
4795. !> END GENERATED DATA BLOCK
4796. INT 1.00614 1.00614 1.00614 1.14319 1.23942 1.30154 1.36517 1.40408 1.41626 -
4797. HEIG 0 5 10 15 20 25 30 35 36.55
4798. TYPE 3 IS875 RECT CLAD (+Z)
4799. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
4800. IS875-2015:PARAMS 1 1
4801. !> END GENERATED DATA BLOCK
4802. INT 1.00614 1.00614 1.00614 1.14319 1.23942 1.30154 1.36517 1.40408 1.41626 -
```



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BLOCK-2, MODEL SCHOOL ROAD
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```
4803. HEIG 0 5 10 15 20 25 30 35 36.55
4804. TYPE 4 IS875 RECT CLAD (-Z)
4805. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
4806. IS875-2015:PARAMS 1  1
4807. !> END GENERATED DATA BLOCK
4808. INT 1.00614 1.00614 1.00614 1.14319 1.23942 1.30154 1.36517 1.40408 1.41626 -
4809. HEIG 0 5 10 15 20 25 30 35 36.55
4810. LOAD 5 LOADTYPE NONE  TITLE EQ+X
4811. 1893 LOAD X 1
4812. LOAD 6 LOADTYPE NONE  TITLE EQ-X
4813. 1893 LOAD X -1.
4814. LOAD 7 LOADTYPE NONE  TITLE EQ+Z
4815. 1893 LOAD Z 1
4816. LOAD 8 LOADTYPE NONE  TITLE EQ-Z
4817. 1893 LOAD Z -1.
4818. LOAD 1 LOADTYPE DEAD  TITLE DL
4819. MEMBER LOAD
4820. 101 102 114 115 127 129 130 132 156 161 164 170 171 192 TO 194 197 -
4821. 201 TO 205 217 226 228 230 232 TO 237 239 241 TO 251 253 TO 255 259 264 266 -
4822. 267 269 271 TO 274 279 281 282 284 285 287 289 TO 291 321 TO 323 325 330 -
4823. 331 333 338 TO 340 342 343 345 TO 347 353 355 360 367 369 388 389 395 449 -
4824. 458 460 462 464 TO 469 471 473 TO 483 485 TO 487 491 496 498 499 501 503 -
4825. 504 TO 506 511 513 514 516 517 519 521 TO 523 553 TO 555 557 562 563 565 570 -
4826. 571 TO 572 574 575 577 TO 579 584 586 591 598 600 619 620 674 683 685 687 -
4827. 689 TO 694 696 698 TO 708 710 TO 712 716 721 723 724 726 728 TO 731 736 738 -
4828. 739 741 742 744 746 TO 748 778 TO 780 782 787 790 795 TO 797 799 800 802 -
4829. 803 TO 804 809 811 816 823 825 844 845 899 908 910 912 914 TO 919 921 923 -
4830. 924 TO 933 935 TO 937 941 946 948 949 951 953 TO 956 961 963 964 966 967 969 -
4831. 971 TO 973 1003 TO 1005 1007 1012 1013 1015 1020 TO 1022 1024 1025 -
4832. 1027 TO 1029 1034 1036 1041 1048 1050 1069 1070 1111 1120 1122 1124 1126 -
4833. 1127 TO 1131 1133 1135 TO 1145 1147 TO 1149 1153 1158 1160 1161 1163 1165 -
4834. 1166 TO 1168 1173 1175 1176 1178 1179 1181 1183 TO 1185 1211 1212 1216 1239 -
4835. 1240 1280 1292 1303 1312 1313 7311 7671 7695 UNI GY -5
4836. 1792 1797 7672 TO 7674 7821 UNI GY -5
4837. 2052 7198 7203 7209 7215 7221 7812 7820 TO 7824 7833 7836 7838 7839 UNI GY -5
4838. 1287 1302 1366 1375 1377 1379 1381 TO 1386 1388 1390 TO 1400 1403 1404 1408 -
4839. 1413 1415 1416 1418 1420 TO 1423 1428 1431 1433 1434 1436 1438 TO 1440 1483 -
4840. 1487 1488 1491 1508 1516 1517 1536 1537 1547 1549 1550 1553 1556 1557 1562 -
4841. 1564 1567 TO 1570 1617 1626 1628 1630 1632 TO 1637 1639 1641 TO 1651 1654 -
4842. 1655 1659 1664 1666 1667 1669 1671 TO 1674 1679 1682 1684 1685 1687 1689 -
4843. 1690 TO 1691 1724 1727 1728 1730 1739 1744 1745 1764 1765 1775 1777 1781 -
4844. 1782 1784 TO 1786 1788 TO 1790 1802 1803 1805 1852 1861 1863 1865 -
4845. 1867 TO 1872 1874 1876 TO 1886 1889 1890 1894 1899 1901 1902 1904 -
4846. 1906 TO 1909 1914 1917 1919 1920 1922 1924 TO 1926 1959 1962 1963 1965 1974 -
```



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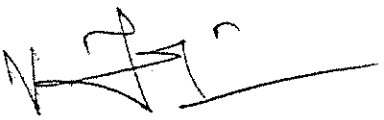
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4847. 1979 1980 1999 2000 2010 2012 2016 2017 2019 2020 2024 2025 2037 2038 2040 -
4848. 2045 2046 2048 2050 2053 2101 2110 2112 2114 2117 2119 2121 2123 -
4849. 2125 TO 2135 2138 2141 TO 2143 2148 2150 2151 2153 TO 2158 2163 2168 2169 -
4850. 2171 2173 2174 2208 2211 2212 2214 2223 2228 2229 2248 2259 2261 2265 2268 -
4851. 2269 TO 2270 2272 TO 2274 2283 2285 TO 2287 2289 2292 2294 2296 2297 2299 -
4852. 2300 2302 7227 7233 7239 7782 7790 TO 7792 7811 7814 7819 7823 7824 7827 -
4853. 7830 7832 7833 7835 7840 UNI GY -5
4854. 137 138 142 150 162 165 198 209 210 213 TO 216 218 220 TO 225 227 231 238 -
4855. 252 256 260 TO 262 265 268 275 TO 278 280 283 286 292 298 TO 301 304 TO 306 -
4856. 309 310 312 TO 314 324 326 328 329 332 344 349 TO 351 356 TO 358 361 371 -
4857. 374 377 379 382 TO 384 386 387 392 393 396 TO 398 400 445 TO 448 450 452 -
4858. 453 TO 457 459 463 470 484 488 492 TO 494 497 500 507 TO 510 512 515 518 524 -
4859. 530 TO 533 536 TO 538 541 542 544 TO 546 556 558 560 561 564 576 581 TO 583 -
4860. 587 TO 589 592 602 605 608 610 613 TO 615 617 618 623 TO 625 670 TO 673 675 -
4861. 677 TO 682 684 688 695 709 713 717 TO 719 722 725 732 TO 735 737 740 743 -
4862. 749 755 TO 758 761 763 766 767 769 TO 771 781 783 785 786 789 801 -
4863. 806 TO 808 812 TO 814 817 827 830 833 835 838 TO 840 842 843 848 TO 850 895 -
4864. 896 TO 898 900 902 TO 907 909 913 920 934 938 942 TO 944 947 950 957 TO 960 -
4865. 962 965 968 974 980 TO 983 986 TO 988 991 992 994 TO 996 1006 1008 1010 -
4866. 1011 1014 1026 1031 TO 1033 1037 TO 1039 1042 1052 1055 1058 1060 -
4867. 1063 TO 1065 1067 1068 1073 TO 1075 1107 TO 1110 1112 1114 TO 1119 1121 -
4868. 1125 1132 1146 1150 1154 TO 1156 1159 1162 1169 TO 1172 1174 1177 1180 1186 -
4869. 1192 TO 1195 1198 7255 UNI GY -6
4870. 7691 UNI GY -6
4871. 7269 7271 7273 7275 7291 7293 7295 7297 UNI GY -6
4872. 7260 UNI GY -6
4873. 7200 7204 7210 7216 7222 UNI GY -6
4874. 7156 7158 7160 7162 7164 UNI GY -6
4875. 1200 1203 1214 1217 1222 1225 1228 1230 1233 TO 1235 1237 1238 1243 1244 -
4876. 1258 1259 1261 1262 1270 1272 1275 1282 1289 1293 1294 1299 1315 -
4877. 1362 TO 1365 1367 1369 TO 1374 1376 1380 1387 1401 1405 1409 TO 1411 1414 -
4878. 1417 1424 TO 1427 1429 1432 1435 1441 1447 TO 1450 1453 TO 1455 1458 1459 -
4879. 1461 TO 1463 1476 1478 1481 1493 1500 1504 TO 1506 1509 1519 1522 1525 1527 -
4880. 1530 TO 1532 1534 1535 1540 TO 1542 1545 1546 1548 1555 1559 1563 1566 1613 -
4881. 1614 TO 1616 1618 1620 TO 1625 1627 1631 1638 1652 1656 1660 TO 1662 1665 -
4882. 1668 1675 TO 1678 1680 1683 1686 1692 1698 TO 1701 1704 1706 1709 1710 1712 -
4883. 1713 TO 1714 1721 TO 1723 1731 1733 1735 TO 1737 1740 1747 1750 1753 1755 -
4884. 1758 TO 1760 1762 1763 1768 TO 1770 1773 1774 1776 1780 1783 1787 1791 1794 -
4885. 1800 1804 1848 TO 1851 1853 1855 TO 1860 1862 1866 1873 1887 1891 -
4886. 1895 TO 1897 1900 1903 1910 TO 1913 1915 1918 1921 1927 1933 TO 1936 1939 -
4887. 1940 TO 1941 1944 1945 1947 TO 1949 1956 TO 1958 1966 1968 1970 TO 1972 1975 -
4888. 1982 1985 1988 1990 1993 TO 1995 1997 1998 2003 TO 2005 2008 2009 2011 2015 -
4889. 2018 2022 2026 2029 2035 2039 2043 2049 2097 TO 2100 2102 2104 TO 2109 2111 -
4890. 2115 2122 2136 2140 2144 TO 2146 2149 2152 2159 TO 2162 2164 2167 2176 2182 -
4891. 2183 TO 2185 2188 2190 2193 2194 2196 TO 2198 2205 TO 2207 2215 2217 2219 -
4892. 2220 TO 2221 2224 2231 2234 2237 2239 2242 TO 2244 2246 2247 7228 7261 7264 -
4893. 7277 7781 UNI GY -6
4894. 7829 7834 UNI GY -6
4895. 7783 7818 UNI GY -6
4896. 7279 7281 7283 7285 7299 7301 7303 7305 UNI GY -6
4897. 7234 7240 7246 UNI GY -6
4898. 2252 TO 2254 2257 2258 2260 2264 2267 2271 2275 2278 2284 2288 2293 2295 -
4899. 2298 2433 2476 2477 2479 2482 2487 2490 TO 2492 2494 2500 2501 7307 7789 -
4900. 7841 UNI GY -6
4901. 92 117 121 124 128 131 133 TO 136 141 143 144 160 163 175 207 257 258 270 -
4902. 315 316 334 TO 337 341 359 366 368 372 373 376 378 381 390 489 490 502 534 -
```

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4903. 547 548 566 TO 569 573 590 597 599 603 604 607 609 612 621 714 715 727 759 -
4904. 772 773 791 TO 794 798 815 822 824 828 829 832 834 837 846 939 940 952 984 -
4905. 997 998 1016 TO 1019 1023 1040 1047 1049 1053 1054 1057 1059 1062 1071 1151 -
4906. 1152 1164 1196 1204 1205 1209 1210 1213 1215 1223 1224 1227 1229 1232 1241 -
4907. 1406 1407 1419 1451 1464 1465 1485 1486 1490 1507 1520 1521 1524 1526 1529 -
4908. 1538 1657 1658 1670 1693 1702 1715 1716 1725 1726 1729 1738 1748 1749 1752 -
4909. 1754 1757 1766 1892 1893 1905 1928 1937 1950 1951 1960 1961 1964 1973 1983 -
4910. 1984 1987 1989 1992 2001 2177 2186 2199 2200 2209 2210 2213 2222 2232 2233 -
4911. 2236 2238 2241 2250 2425 2447 2448 2457 2458 2461 2470 2471 2480 2481 2484 -
4912. 2486 2489 2498 7155 7157 7159 7161 7163 7202 7208 7214 7220 7226 7232 7238 -
4913. 7244 7313 7315 7317 7319 7802 7804 7806 7808 7849 UNI GY -7
4914. 307 308 327 338 339 348 362 TO 364 375 380 385 539 540 559 570 571 580 591 -
4915. 593 TO 595 606 611 616 764 784 795 796 805 816 819 836 841 989 990 1009 -
4916. 1020 1021 1030 1041 1043 TO 1045 1056 1061 1066 1201 1211 1212 1216 1219 -
4917. 1231 1236 1402 1430 1456 1457 1487 1488 1497 1508 1510 TO 1512 1523 1528 -
4918. 1533 1544 1653 1681 1707 1727 1728 1732 1739 1742 1756 1761 1772 1888 1916 -
4919. 1942 1943 1962 1963 1967 1974 1976 TO 1978 1986 1991 1996 2007 2137 2165 -
4920. 2191 2211 2212 2216 2223 2226 2240 2245 2256 2345 TO 2348 2352 TO 2355 2357 -
4921. 2359 2363 2370 2385 2410 2412 2413 2424 2430 TO 2432 2436 TO 2439 -
4922. 2441 TO 2446 2453 TO 2455 2463 TO 2469 2472 TO 2474 2483 2488 2493 2495 -
4923. 2502 TO 2504 2508 2515 2519 2523 2525 2528 2532 2539 2542 7251 7256 TO 7259 -
4924. 7262 7263 7265 7266 7287 7309 7845 UNI GY -3
4925. 120 148 149 151 293 319 370 525 551 601 750 776 826 975 1001 1051 1187 1207 -
4926. 1221 1442 1468 1518 1693 1719 1746 1928 1954 1981 2177 2203 2230 2425 2451 -
4927. 2478 UNI GY -13
4928. FLOOR LOAD
4929. YRANGE 4.2 35.7 FLOAD -3.125 GY
**NOTE** about Floor/OneWay Loads/Weights.
  Please note that depending on the shape of the floor you may
  have to break up the FLOOR/ONEWAY LOAD into multiple commands.
  For details please refer to Technical Reference Manual
  Section 5.32.4.2 Note d and/or "5.32.4.3 Note f.

4930. FLOOR LOAD
4931. _2TO4UTILITYSUNK FLOAD -6.9 GY
**NOTE** about FLOOR GROUP command
  All floor panels in a floor group should lie in a single plane.
  If not lying in a single plane break single FLOOR GROUP
  command into multiple FLOOR GROUP commands where each
  floor group lie in a single plane / height.

4932. _5THUTILITYSUNK FLOAD -6.9 GY
4933. _6THFLOORUTILITY FLOAD -6.9 GY
4934. _7THFLOORUTILITY FLOAD -6.9 GY
4935. _8THFLOORUTILITY FLOAD -6.9 GY
4936. _9THFLOORUTILITY FLOAD -6.9 GY
4937. YRANGE 4.2 35.7 FLOAD -1.2 GY
4938. YRANGE 32 32.4 FLOAD -2.4 GY
4939. _1STFLOORSUNKEN FLOAD -6.9 GY
4940. _WT FLOAD -20 GY
4941. YRANGE 36.2 36.6 FLOAD -20 GY
4942. FLOOR LOAD
4943. _1STFLOOR150THK FLOAD -0.625 GY
```

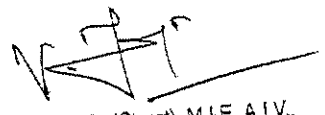


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```
4944. _2-4FLOOR150THK FLOAD -0.625 GY
4945. _5THFLOOR150THK FLOAD -0.625 GY
4946. _6THFLOOR150THK FLOAD -0.625 GY
4947. _7THFLOOR150THK FLOAD -0.625 GY
4948. _8THFLOOR150THK FLOAD -0.625 GY
4949. _9THFLOOR150THK FLOAD -0.625 GY
4950. SELFWEIGHT Y -1 LIST 1 TO 14 17 TO 19 22 TO 24 27 TO 30 33 TO 36 38 40 43 -
4951. 44 TO 57 60 TO 62 65 TO 67 70 TO 73 76 TO 79 81 83 86 TO 112 114 TO 117 120 -
4952. 121 TO 144 148 TO 153 155 TO 189 192 TO 198 200 TO 207 209 210 212 TO 293 -
4953. 298 TO 301 304 TO 316 319 321 TO 351 353 TO 390 392 TO 398 400 TO 415 418 -
4954. 419 TO 420 423 TO 425 428 TO 431 434 TO 437 439 441 444 TO 525 530 TO 534 -
4955. 536 TO 548 551 553 TO 621 623 TO 640 643 TO 645 648 TO 650 653 TO 656 659 -
4956. 660 TO 662 664 666 669 TO 750 755 TO 759 761 763 764 766 TO 773 776 -
4957. 778 TO 817 819 821 TO 830 832 TO 846 848 TO 865 868 TO 870 873 TO 875 878 -
4958. 879 TO 881 884 TO 887 889 891 894 TO 975 980 TO 984 986 TO 998 1001 -
4959. 1003 TO 1071 1073 TO 1090 1093 TO 1095 1098 TO 1100 1103 TO 1187 -
4960. 1192 TO 1196 1198 1200 1201 1203 TO 1205 1207 1209 TO 1217 1219 -
4961. 1221 TO 1225 1227 TO 1241 1243 1244 1247 TO 1250 1252 1254 1257 TO 1262 -
4962. 1264 TO 1304 1307 1310 1312 TO 1315 1317 1319 TO 1332 1335 TO 1337 -
4963. 1340 TO 1342 1345 TO 1348 1351 TO 1354 1356 1358 1361 TO 1442 1447 TO 1451 -
4964. 1453 TO 1465 1468 1476 1478 1481 1483 1485 TO 1488 1490 1491 1493 1497 1500 -
4965. 1502 1504 TO 1512 1516 TO 1538 1540 TO 1551 1553 1555 TO 1557
4966. SELFWEIGHT Y -1 LIST 1559 1562 TO 1584 1587 TO 1589 1592 TO 1594 -
4967. 1597 TO 1600 1603 TO 1607 1609 1612 TO 1693 1698 TO 1702 1704 1706 1707 -
4968. 1709 TO 1716 1719 1721 TO 1740 1742 1744 TO 1750 1752 TO 1766 1768 TO 1794 -
4969. 1797 1798 1800 1802 TO 1819 1822 TO 1824 1827 TO 1829 1832 TO 1835 -
4970. 1838 TO 1842 1844 1847 TO 1928 1933 TO 1937 1939 TO 1951 1954 1956 TO 2001 -
4971. 2003 TO 2026 2028 2029 2033 2035 2037 TO 2041 2043 2045 2046 2048 TO 2050 -
4972. 2052 2053 2055 TO 2068 2071 TO 2073 2076 TO 2078 2081 TO 2084 2087 TO 2091 -
4973. 2093 2096 TO 2177 2182 TO 2186 2188 2190 2191 2193 TO 2200 2203 -
4974. 2205 TO 2224 2226 2228 TO 2234 2236 TO 2250 2252 TO 2265 2267 TO 2275 2277 -
4975. 2278 2282 TO 2289 2291 TO 2300 2302 TO 2316 2319 TO 2321 2324 TO 2326 2329 -
4976. 2330 TO 2332 2335 TO 2339 2341 2344 TO 2357 2359 2361 2363 2365 2367 2369 -
4977. 2370 TO 2376 2378 2379 2381 TO 2417 2419 2420 2422 2424 2425 2430 TO 2434 -
4978. 2436 TO 2448 2451 2453 TO 2496 2498 2500 TO 2513 2515 TO 2533 2535 TO 2544 -
4979. 2546 TO 2559 2563 TO 2565 2568 TO 2570 2573 2578 2580 TO 2582 2585 -
4980. 2587 TO 2610 2626 2634 2636 2858 TO 3433 3556 TO 4126 4262 TO 4832 -
4981. 5064 TO 5639 5864 TO 6446 6513 TO 7164 7190 TO 7195 7198 TO 7252 -
4982. 7254 TO 7327 7329 TO 7334 7341 TO 7613 7616 TO 7784 7786 7789 TO 7806 7808 -
4983. 7809 TO 7825 7827 7829 7830 7832 TO 7836 7838 TO 7849
4984. LOAD 2 LOADTYPE LIVE  TITLE LL
4985. FLOOR LOAD
4986. YRANGE 4.2 29.2 FLOAD -2 GY
4987. YRANGE 32.1 32.3 FLOAD -1.5 GY
4988. _2TO4BALCONYSUNK FLOAD -1 GY
4989. _5THBALCONYSUNK FLOAD -1 GY
4990. _6THFLOORBALCONY FLOAD -1 GY
4991. _7THFLOORBALCONY FLOAD -1 GY
4992. _8THFLOORBALCONY FLOAD -1 GY
4993. _9THFLOORBALCONY FLOAD -1 GY
4994. _1STFLOORBALCONY FLOAD -1 GY
4995. _STAIRCASE FLOAD -1 GY
4996. LOAD 9 LOADTYPE SEISMIC-H  TITLE RS+X
```

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Mobile: 9841[illegible]

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4997. SPECTRUM CQC IS1893 2016 X 0.016 SCALE 2.54 DAMP 0.05 MIS 0
4998. SOIL TYPE 2
4999. LOAD 10 LOADTYPE SEISMIC-H  TITLE RS-X
5000. SPECTRUM CQC IS1893 2016 X -0.016 SCALE 2.54 DAMP 0.05 MIS 0
5001. SOIL TYPE 2
5002. LOAD 11 LOADTYPE SEISMIC-H  TITLE RS+Z
5003. SPECTRUM CQC IS1893 2016 Z 0.016 SCALE 3.88 DAMP 0.05 MIS 0
5004. SOIL TYPE 2
5005. LOAD 12 LOADTYPE SEISMIC-H  TITLE RS-Z
5006. SPECTRUM CQC IS1893 2016 Z -0.016 SCALE 3.88 DAMP 0.05 MIS 0
5007. SOIL TYPE 2
5008. CHECK STORY DRIFT
5009. LOAD 13 LOADTYPE WIND  TITLE WIND (+X) IS875 RECT CLAD
5010. WIND LOAD X 1 TYPE 1 XR -5 10
5011. LOAD 14 LOADTYPE WIND  TITLE WIND (-X) IS875 RECT CLAD
5012. WIND LOAD X -1 TYPE 2
 **WARNING-fx fy fz wind forces: -1.0449E+00  0.0000E+00  0.0000E+00
          at coordinates:        3.0800E+00  1.2000E+00  9.5800E+00 ignored.
 **WARNING-fx fy fz wind forces: -1.0449E+00  0.0000E+00  0.0000E+00
          at coordinates:        3.0800E+00  4.3000E+00  9.5800E+00 ignored.
5013. LOAD 15 LOADTYPE WIND  TITLE WIND (+Z) IS875 RECT CLAD
5014. WIND LOAD Z 1 TYPE 3 ZR 0 20
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  6.9424E-02
          at coordinates:        0.0000E+00  0.0000E+00  5.6400E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  2.6260E-01
          at coordinates:       -3.5000E-01  0.0000E+00  1.4490E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  3.6221E-02
          at coordinates:       -1.1000E-01  0.0000E+00  5.6400E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  3.6221E-02
          at coordinates:       -2.4000E-01  0.0000E+00  5.6400E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  4.7590E-01
          at coordinates:       -1.2200E+00  1.2000E+00  1.9020E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  1.3281E-01
          at coordinates:       -1.2200E+00  0.0000E+00  1.9020E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  6.7839E-01
          at coordinates:       -3.5000E-01  4.3000E+00  1.4490E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  3.4309E-01
          at coordinates:       -1.2200E+00  4.3000E+00  1.9020E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  3.1580E-01
          at coordinates:       -7.6000E-01  4.3000E+00  1.0920E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  6.3160E-01
          at coordinates:       -7.6000E-01  7.4000E+00  1.0920E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  6.8722E-01
          at coordinates:       -7.6000E-01  1.0500E+01  1.0920E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  7.2092E-01
          at coordinates:       -7.6000E-01  1.3600E+01  1.0920E+01 ignored.
```



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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile 9841269154

```
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  7.7805E-01
          at coordinates:        -7.6000E-01  1.6700E+01  1.0920E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  7.9533E-01
          at coordinates:        -7.6000E-01  1.9800E+01  1.0920E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  8.1704E-01
          at coordinates:        -7.6000E-01  2.2900E+01  1.0920E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  8.4928E-01
          at coordinates:        -7.6000E-01  2.6000E+01  1.0920E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  8.6251E-01
          at coordinates:        -7.6000E-01  2.9100E+01  1.0920E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  4.7109E-01
          at coordinates:        -1.2200E+00  2.9100E+01  1.9020E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  4.4071E-01
          at coordinates:        -7.6000E-01  3.2200E+01  1.0920E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  4.7879E-01
          at coordinates:        -1.2200E+00  3.2200E+01  1.9020E+01 ignored.
5015. LOAD 16 LOADTYPE WIND  TITLE WIND (-Z) IS875 RECT CLAD
5016. WIND LOAD Z -1 TYPE 4
5017. **LIMIT STATE OF SERVICABILITY**
5018. LOAD COMB 3 DL+LL
5019. 1 1.0 2 1.0
5020. LOAD COMB 17 DL+RS(+X)
5021. 1 1.0 9 1.0
5022. LOAD COMB 18 DL+RS(-X)
5023. 1 1.0 10 1.0
5024. LOAD COMB 19 DL+RS(+Z)
5025. 1 1.0 11 1.0
5026. LOAD COMB 20 DL+RS(-Z)
5027. 1 1.0 12 1.0
5028. LOAD COMB 21 DL+WL(+X)
5029. 1 1.0 13 1.0
5030. LOAD COMB 22 DL+WL(-X)
5031. 1 1.0 14 1.0
5032. LOAD COMB 23 DL+WL(+Z)
5033. 1 1.0 15 1.0
5034. LOAD COMB 24 DL+WL(-Z)
5035. 1 1.0 16 1.0
5036. LOAD COMB 25 1.0DL+0.8LL+0.8RS(+X)
5037. 1 1.0 9 0.8 2 0.8
5038. LOAD COMB 26 1.0DL+0.8LL+0.8RS(-X)
5039. 1 1.0 10 0.8 2 0.8
5040. LOAD COMB 27 1.0DL+0.8LL+0.8RS(+Z)
5041. 1 1.0 11 0.8 2 0.8
5042. LOAD COMB 28 1.0DL+0.8LL+0.8RS(-Z)
5043. 1 1.0 12 0.8 2 0.8
5044. LOAD COMB 29 1.0DL+0.8LL+0.8WL(+X)
5045. 1 1.0 13 0.8 2 0.8
5046. LOAD COMB 30 1.0DL+0.8LL+0.8WL(-X)
5047. 1 1.0 14 0.8 2 0.8
5048. LOAD COMB 31 1.0DL+0.8LL+0.8WL(+Z)
5049. 1 1.0 15 0.8 2 0.8
5050. LOAD COMB 32 1.0DL+0.8LL+0.8WL(-Z)
5051. 1 1.0 16 0.8 2 0.8
```

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```
5052. **LIMIT STATE OF COLLAPSE**
5053. LOAD COMB 4 1.5DL+1.5LL
5054. 1 1.5 2 1.5
5055. LOAD COMB 33 1.2DL+1.2LL+1.2RS(+X)
5056. 1 1.2 2 1.2 9 1.2
5057. LOAD COMB 34 1.2DL+1.2LL+1.2RS(-X)
5058. 1 1.2 2 1.2 10 1.2
5059. LOAD COMB 35 1.2DL+1.2LL+1.2RS(+Z)
5060. 1 1.2 2 1.2 11 1.2
5061. LOAD COMB 36 1.2DL+1.2LL+1.2RS(-Z)
5062. 1 1.2 2 1.2 12 1.2
5063. LOAD COMB 37 1.2DL+1.2LL+1.2WL(+X)
5064. 1 1.2 2 1.2 13 1.2
5065. LOAD COMB 38 1.2DL+1.2LL+1.2WL(-X)
5066. 1 1.2 2 1.2 14 1.2
5067. LOAD COMB 39 1.2DL+1.2LL+1.2WL(+Z)
5068. 1 1.2 2 1.2 15 1.2
5069. LOAD COMB 40 1.2DL+1.2LL+1.2WL(-Z)
5070. 1 1.2 2 1.2 16 1.2
5071. LOAD COMB 41 0.9DL+1.5RS(+X)
5072. 1 0.9 9 1.5
5073. LOAD COMB 42 0.9DL+1.5RS(-X)
5074. 1 0.9 10 1.5
5075. LOAD COMB 43 0.9DL+1.5RS(+Z)
5076. 1 0.9 11 1.5
5077. LOAD COMB 44 0.9DL+1.5RS(-Z)
5078. 1 0.9 12 1.5
5079. LOAD COMB 45 0.9DL+1.5WL(+X)
5080. 1 0.9 13 1.5
5081. LOAD COMB 46 0.9DL+1.5WL(-X)
5082. 1 0.9 14 1.5
5083. LOAD COMB 47 0.9DL+1.5WL(+Z)
5084. 1 0.9 15 1.5
5085. LOAD COMB 48 0.9DL+1.5WL(-Z)
5086. 1 0.9 16 1.5
5087. LOAD COMB 49 1.5DL+1.5RS(+X)
5088. 1 1.5 9 1.5
5089. LOAD COMB 50 1.5DL+1.5RS(-X)
5090. 1 1.5 10 1.5
5091. LOAD COMB 51 1.5DL+1.5RS(+Z)
5092. 1 1.5 11 1.5
5093. LOAD COMB 52 1.5DL+1.5RS(-Z)
5094. 1 1.5 12 1.5
5095. LOAD COMB 53 1.5DL+1.5WL(+X)
5096. 1 1.5 13 1.5
5097. LOAD COMB 54 1.5DL+1.5WL(-X)
5098. 1 1.5 14 1.5
5099. LOAD COMB 55 1.5DL+1.5WL(+Z)
5100. 1 1.5 15 1.5
5101. LOAD COMB 56 1.5DL+1.5WL(-Z)
5102. 1 1.5 16 1.5
5103. PERFORM ANALYSIS
```

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STAAD SPACE -- PAGE NO. 95

P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS	5203	NUMBER OF MEMBERS	2992
NUMBER OF PLATES	3452	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	69

Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL PRIMARY LOAD CASES = 14, TOTAL DEGREES OF FREEDOM = 25368
TOTAL LOAD COMBINATION CASES = 42 SO FAR.

***NOTE: MASSES DEFINED UNDER LOAD# 9 WILL FORM
THE FINAL MASS MATRIX FOR DYNAMIC ANALYSIS.

**WARNING: IF THIS UBC/IBC ANALYSIS HAS TENSION/COMPRESSION
OR REPEAT LOAD OR RE-ANALYSIS OR SELECT OPTIMIZE, THEN EACH
UBC/IBC CASE SHOULD BE FOLLOWED BY PERFORM ANALYSIS & CHANGE.

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6
BASE SHEAR AND TIME PERIOD IN X

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.69000 SEC       *
* SA/G PER 1893=    1.971, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0315 X    61225.78=    1930.83 KN   *
* VB Act Based on Clause 7.2.1 =     1930.83 KN         *
* VB Min based on Clause 7.2.2 =      673.48 KN         *
*                                                       *
*********************************************************
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6
BASE SHEAR AND TIME PERIOD IN X

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.69000 SEC       *
* SA/G PER 1893=    1.971, LOAD FACTOR=-1.000           *
* VB PER 1893=    0.0315 X    61225.78=   -1930.83 KN   *
* VB Act Based on Clause 7.2.1 =    -1930.83 KN         *
* VB Min based on Clause 7.2.2 =     -673.48 KN         *
*                                                       *
*********************************************************
```

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Mobile 9841269154

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6

STAAD SPACE -- PAGE NO. 96

BASE SHEAR AND TIME PERIOD IN Z

```
*******************************************************
* UNITS - KN    METE                                  *
* TIME PERIOD FOR Z 1893 LOADING =    0.53000 SEC     *
* SA/G PER 1893=    2.500, LOAD FACTOR= 1.000         *
* VB PER 1893=    0.0400 X    61225.78=    2449.03 KN *
* VB Act Based on Clause 7.2.1 =     2449.03 KN       *
* VB Min based on Clause 7.2.2 =      673.48 KN       *
*                                                     *
*******************************************************
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6

BASE SHEAR AND TIME PERIOD IN Z

```
*******************************************************
* UNITS - KN    METE                                  *
* TIME PERIOD FOR Z 1893 LOADING =    0.53000 SEC     *
* SA/G PER 1893=    2.500, LOAD FACTOR=-1.000         *
* VB PER 1893=    0.0400 X    61225.78=   -2449.03 KN *
* VB Act Based on Clause 7.2.1 =    -2449.03 KN       *
* VB Min based on Clause 7.2.2 =     -673.48 KN       *
*                                                     *
*******************************************************
```

```
 EIGEN METHOD   : SUBSPACE
 -------------------------
 NUMBER OF MODES REQUESTED              =    50
 NUMBER OF EXISTING MASSES IN THE MODEL = 11778
 NUMBER OF MODES THAT WILL BE USED      =    50

   *** EIGENSOLUTION: ADVANCED METHOD ***
```

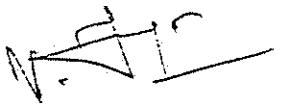


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Mobile: 9[illegible]54

STAAD SPACE -- PAGE NO. 97

CALCULATED FREQUENCIES FOR LOAD CASE 9

MODE	FREQUENCY(CYCLES/SEC)	PERIOD(SEC)
1	0.604	1.65577
2	0.694	1.44063
3	0.706	1.41587
4	2.035	0.49148
5	2.303	0.43426
6	2.444	0.40910
7	3.091	0.32355
8	3.921	0.25506
9	4.610	0.21692
10	5.031	0.19877
11	5.379	0.18591
12	5.639	0.17733
13	5.805	0.17225
14	5.868	0.17043
15	6.132	0.16307
16	6.299	0.15875
17	6.826	0.14650
18	6.895	0.14504
19	7.135	0.14016
20	7.203	0.13883
21	7.287	0.13722
22	7.577	0.13198
23	7.640	0.13090
24	7.773	0.12865
25	7.807	0.12808
26	8.027	0.12459
27	8.058	0.12410
28	8.120	0.12315
29	8.291	0.12062
30	8.338	0.11994
31	8.586	0.11647
32	8.623	0.11597
33	8.631	0.11587
34	8.660	0.11547
35	8.755	0.11422
36	8.794	0.11371
37	8.851	0.11298
38	8.927	0.11202
39	9.081	0.11012
40	9.183	0.10890
41	9.223	0.10843
42	9.440	0.10593
43	9.689	0.10321
44	9.766	0.10239
45	9.822	0.10181
46	9.897	0.10104
47	9.954	0.10047
48	10.023	0.09977
49	10.188	0.09815
50	10.292	0.09717



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C O M P O S I T E D A M P I N G SUMMARY

MODE	STRAIN ENERGY	DAMP*ENERGY	COMPOSITE DAMPING
1	6.821809E+01	3.404647E+00	0.0499
2	5.143355E+01	2.567851E+00	0.0499
3	4.739777E+01	2.363740E+00	0.0499
4	4.547657E+02	2.271538E+01	0.0499
5	7.061911E+02	3.526384E+01	0.0499
6	6.137069E+02	3.063195E+01	0.0499
7	6.579273E+00	3.289603E-01	0.0500
8	1.481105E+03	7.401326E+01	0.0500
9	2.023127E+03	1.010836E+02	0.0500
10	2.179137E+03	1.088224E+02	0.0499
11	1.027327E+02	5.099794E+00	0.0496
12	1.375945E+02	6.823887E+00	0.0496
13	1.029992E+02	5.107940E+00	0.0496
14	1.357192E+02	6.782982E+00	0.0500
15	2.255293E+03	1.126894E+02	0.0500
16	7.236922E+01	3.590108E+00	0.0496
17	2.933826E+02	1.465855E+01	0.0500
18	2.536634E+02	1.266969E+01	0.0499
19	4.162781E+02	2.079698E+01	0.0500
20	1.400856E+02	7.004024E+00	0.0500
21	1.408287E+02	7.041304E+00	0.0500
22	1.388859E+03	6.938866E+01	0.0500
23	5.051485E+02	2.522836E+01	0.0499
24	1.064405E+02	5.320719E+00	0.0500
25	6.336664E+02	3.165437E+01	0.0500
26	2.372636E+02	1.184155E+01	0.0499
27	3.212200E+02	1.603480E+01	0.0499
28	6.307323E+03	3.150657E+02	0.0500
29	2.370048E+02	1.184571E+01	0.0500
30	7.268410E+02	3.628740E+01	0.0499
31	2.315141E+02	1.157090E+01	0.0500
32	1.710278E+02	8.541495E+00	0.0499
33	1.756321E+02	8.779311E+00	0.0500
34	8.812863E+02	4.404462E+01	0.0500
35	2.551491E+02	1.274316E+01	0.0499
36	3.731781E+02	1.862559E+01	0.0499
37	4.404235E+02	2.200004E+01	0.0500
38	2.308873E+02	1.154186E+01	0.0500
39	7.302449E+02	3.648580E+01	0.0500
40	2.586769E+02	1.291617E+01	0.0499
41	3.292870E+02	1.645775E+01	0.0500
42	3.623035E+03	1.809780E+02	0.0500
43	2.460527E+03	1.228575E+02	0.0499
44	7.514709E+02	3.755114E+01	0.0500
45	5.437934E+02	2.718390E+01	0.0500
46	3.906135E+02	1.952486E+01	0.0500
47	2.935291E+02	1.467622E+01	0.0500
48	5.356714E+02	2.677800E+01	0.0500

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MODE	STRAIN ENERGY	DAMP*ENERGY	COMPOSITE DAMPING
49	1.420443E+03	7.102063E+01	0.0500
50	1.507174E+03	7.534552E+01	0.0500

1893 RESPONSE SPECTRUM LOAD 9

RESPONSE LOAD CASE 9

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN X	Y	Z	GENERALIZED WEIGHT
1	6.199304E+01	3.532520E-02	4.056836E+04	1.627202E+04
2	2.559814E+04	3.157258E-02	2.210991E+03	9.287358E+03
3	1.887373E+04	2.079267E-03	1.942969E+03	8.267027E+03
4	2.834553E+01	6.701783E-03	5.316556E+03	9.557665E+03
5	1.413116E+03	2.998502E-02	2.259086E+03	1.158666E+04
6	7.203394E+03	1.193350E-01	2.396720E+02	8.936290E+03
7	8.109092E+00	3.035508E+02	2.673013E-03	5.992606E+01
8	9.594906E+01	7.387171E-01	1.254950E+03	8.383135E+03
9	5.381903E+02	5.968909E-02	1.814322E+03	8.282257E+03
10	2.507958E+03	1.705946E-01	1.382883E+02	7.491106E+03
11	3.737948E-02	3.350933E+03	5.503864E-01	3.089334E+02
12	1.076430E+00	4.369209E+02	1.439597E+01	3.764686E+02
13	6.726636E-02	6.222243E+01	1.108140E+01	2.658998E+02
14	7.745718E-04	9.094298E+03	7.929344E+00	3.429756E+02
15	9.143322E+01	1.199298E+02	4.784315E+02	5.217684E+03
16	1.001958E+01	7.122043E+02	2.766931E-02	1.586850E+02
17	7.459935E-01	1.019903E+04	2.158825E+00	5.478036E+02
18	1.108382E+00	3.585770E+03	6.021136E-02	4.642968E+02
19	7.192907E+00	7.646762E+02	1.741946E+01	7.114969E+02
20	5.696130E-02	2.818636E+01	8.613258E-02	2.349121E+02
21	6.053865E-01	4.208130E+01	2.740454E-01	2.307283E+02
22	2.541639E+02	7.519434E+02	5.979327E+02	2.104829E+03
23	1.524448E+02	5.211903E+02	3.347721E+02	7.530527E+02
24	2.706557E+00	1.412628E+02	2.009143E+00	1.532796E+02
25	6.213706E-01	1.843412E+03	1.610822E+01	9.044584E+02
26	6.843920E+01	1.653161E+03	4.429553E+01	3.204156E+02
27	1.032643E+02	1.448856E+03	1.151470E+01	4.303895E+02
28	7.379268E+02	1.823670E+03	6.503748E+01	8.322565E+03
29	1.408379E+01	2.148679E+03	2.307256E+00	3.000100E+02
30	1.019248E+01	3.599259E+02	1.620098E+00	9.096634E+02
31	4.621713E+00	6.541633E+00	4.342010E+01	2.732399E+02
32	5.331634E-01	1.635129E+00	1.913953E+00	2.001261E+02
33	1.086085E+01	1.429309E+02	4.656783E+01	2.051489E+02
34	9.437127E+01	6.232625E+00	2.437689E+02	1.022309E+03
35	1.199957E-03	9.116919E-01	7.917321E-01	2.895967E+02
36	3.551564E+00	3.222578E+02	2.721065E+01	4.198006E+02
37	1.001242E+01	3.428417E+01	8.646351E+00	4.890992E+02
38	9.381210E-02	4.023608E+02	1.887419E-02	2.520843E+02
39	7.491983E-01	3.213486E+00	1.546232E+00	7.704098E+02

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile : 9884986538

40	7.116638E-01	7.489764E+01	2.044485E-01	2.669022E+02
41	1.217268E+00	4.842073E+02	7.664999E-02	3.368254E+02
42	7.344379E-01	2.004866E+03	3.460133E-01	3.537266E+03
43	5.548587E-01	3.544668E+02	1.125711E+00	2.280309E+03
44	8.823128E-03	1.716151E+02	3.063632E-02	6.854560E+02
45	3.683870E-01	1.617273E-02	4.557333E-05	4.904215E+02
46	7.562735E-02	2.813336E-01	3.253459E-03	3.469349E+02
47	4.050751E+00	1.584730E+00	9.557342E-01	2.577739E+02
48	3.896262E-02	5.982705E+00	8.361364E-02	4.639641E+02
49	2.379424E-04	2.486121E+00	4.741061E-05	1.190567E+03
50	1.680585E-02	8.909123E-01	1.045978E-01	1.238059E+03

CQC MODAL COMBINATION METHOD USED.
MISSING MASS METHOD USED.

DYNAMIC WEIGHT X Y Z	6.109682E+04	6.109681E+04	6.109681E+04	KN
MISSING WEIGHT X Y Z	-3.179133E+03	-1.768205E+04	-3.366785E+03	KN
MODAL WEIGHT X Y Z	5.791769E+04	4.341476E+04	5.773002E+04	KN

RESPONSE LOAD CASE 9

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	0.82137	0.0334	0.0000	0.0000
2	0.94403	0.0384	0.0000	0.0000
3	0.96054	0.0390	0.0000	0.0000
4	2.50000	0.1016	0.0000	0.0000
5	2.50000	0.1016	0.0000	0.0000
6	2.50000	0.1016	0.0000	0.0000
7	2.50000	0.1016	0.0000	0.0000
8	2.50000	0.1016	0.0000	0.0000
9	2.50000	0.1016	0.0000	0.0000
10	2.50000	0.1016	0.0000	0.0000
11	2.50000	0.1016	0.0000	0.0000
12	2.50000	0.1016	0.0000	0.0000
13	2.50000	0.1016	0.0000	0.0000
14	2.50000	0.1016	0.0000	0.0000
15	2.50000	0.1016	0.0000	0.0000
16	2.50000	0.1016	0.0000	0.0000
17	2.50000	0.1016	0.0000	0.0000
18	2.50000	0.1016	0.0000	0.0000
19	2.50000	0.1016	0.0000	0.0000
20	2.50000	0.1016	0.0000	0.0000
21	2.50000	0.1016	0.0000	0.0000
22	2.50000	0.1016	0.0000	0.0000
23	2.50000	0.1016	0.0000	0.0000
24	2.50000	0.1016	0.0000	0.0000
25	2.50000	0.1016	0.0000	0.0000

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

26	2.50000	0.1016	0.0000	0.0000
27	2.50000	0.1016	0.0000	0.0000
28	2.50000	0.1016	0.0000	0.0000
29	2.50000	0.1016	0.0000	0.0000
30	2.50000	0.1016	0.0000	0.0000
31	2.50000	0.1016	0.0000	0.0000
32	2.50000	0.1016	0.0000	0.0000
33	2.50000	0.1016	0.0000	0.0000
34	2.50000	0.1016	0.0000	0.0000
35	2.50000	0.1016	0.0000	0.0000
36	2.50000	0.1016	0.0000	0.0000
37	2.50000	0.1016	0.0000	0.0000
38	2.50000	0.1016	0.0000	0.0000
39	2.50000	0.1016	0.0000	0.0000
40	2.50000	0.1016	0.0000	0.0000
41	2.50000	0.1016	0.0000	0.0000
42	2.50000	0.1016	0.0000	0.0000
43	2.50000	0.1016	0.0000	0.0000
44	2.50000	0.1016	0.0000	0.0000
45	2.50000	0.1016	0.0000	0.0000
46	2.50000	0.1016	0.0000	0.0000
47	2.50000	0.1016	0.0000	0.0000
48	2.49662	0.1015	0.0000	0.0000
49	2.47226	0.1005	0.0000	0.0000
50	2.45750	0.0999	0.0000	0.0000

PEAK STORY SHEAR

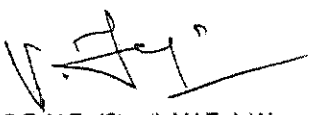
STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
11	35.30	141.00	0.00	0.00
10	32.20	519.43	0.00	0.00
9	29.10	821.59	0.00	0.00
8	26.00	1029.21	0.00	0.00
7	22.90	1187.25	0.00	0.00
6	19.80	1321.47	0.00	0.00
5	16.70	1449.38	0.00	0.00
4	13.60	1594.08	0.00	0.00
3	10.50	1732.47	0.00	0.00
2	7.40	1856.07	0.00	0.00
1	4.30	1931.02	0.00	0.00
BASE	0.00	1935.51	0.00	0.00

MODE	ACCELERATION-G	DAMPING
1	2.08628	0.05000
2	2.39785	0.05000
3	2.43977	0.05000
4	6.35000	0.05000



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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841[illegible]154

MODE	ACCELERATION-G	DAMPING
5	6.35000	0.05000
6	6.35000	0.05000
7	6.35000	0.05000
8	6.35000	0.05000
9	6.35000	0.05000
10	6.35000	0.05000
11	6.35000	0.05000
12	6.35000	0.05000
13	6.35000	0.05000
14	6.35000	0.05000
15	6.35000	0.05000
16	6.35000	0.05000
17	6.35000	0.05000
18	6.35000	0.05000
19	6.35000	0.05000
20	6.35000	0.05000
21	6.35000	0.05000
22	6.35000	0.05000
23	6.35000	0.05000
24	6.35000	0.05000
25	6.35000	0.05000
26	6.35000	0.05000
27	6.35000	0.05000
28	6.35000	0.05000
29	6.35000	0.05000
30	6.35000	0.05000
31	6.35000	0.05000
32	6.35000	0.05000
33	6.35000	0.05000
34	6.35000	0.05000
35	6.35000	0.05000
36	6.35000	0.05000
37	6.35000	0.05000
38	6.35000	0.05000
39	6.35000	0.05000
40	6.35000	0.05000
41	6.35000	0.05000
42	6.35000	0.05000
43	6.35000	0.05000
44	6.35000	0.05000
45	6.35000	0.05000
46	6.35000	0.05000
47	6.35000	0.05000
48	6.34142	0.05000
49	6.27954	0.05000
50	6.24205	0.05000



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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

PEAK STORY SHEAR MIS

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN INCLUDING MISSING MASS CORRECTION		
		X	Y	Z
11	35.30	141.48	0.00	0.00
10	32.20	519.66	0.00	0.00
9	29.10	821.61	0.00	0.00
8	26.00	1029.58	0.00	0.00
7	22.90	1187.43	0.00	0.00
6	19.80	1321.55	0.00	0.00
5	16.70	1449.93	0.00	0.00
4	13.60	1594.17	0.00	0.00
3	10.50	1733.01	0.00	0.00
2	7.40	1857.14	0.00	0.00
1	4.30	1932.24	0.00	0.00
BASE	0.00	1944.61	0.00	0.00
ZPA		3.69455		
ZPAFREQ		33.00000		

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MODAL BASE ACTIONS

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.656	2.07	-0.05	-52.94	-1242.04	352.21	-40.28
2	1.441	982.09	1.09	288.63	7059.95	11933.92	-22815.36
3	1.416	736.76	-0.24	-236.39	-5741.26	11991.61	-17777.64
4	0.491	2.88	-0.04	-39.44	-20.89	274.46	45.23
5	0.434	143.57	-0.66	181.53	225.53	876.75	103.10
6	0.409	731.86	-2.98	-133.50	-156.82	10649.37	-1510.76
7	0.324	0.82	5.04	0.01	-116.42	11.00	52.29
8	0.255	9.75	0.86	-35.26	-203.89	355.64	-69.87
9	0.217	54.68	-0.58	100.40	635.41	145.89	-298.34
10	0.199	254.81	-2.10	-59.83	-308.79	4293.73	-1235.30
11	0.186	0.00	1.14	0.01	-26.37	-0.04	8.97
12	0.177	0.11	2.20	0.40	-48.93	-0.88	16.38
13	0.172	0.01	-0.21	0.09	4.34	-0.43	-1.69
14	0.170	0.00	0.27	-0.01	-1.45	0.05	1.72
15	0.163	9.29	-10.64	-21.25	118.29	247.97	-25.37
16	0.159	1.02	8.58	-0.05	-204.94	13.80	55.50
17	0.146	0.08	-8.86	0.13	66.48	0.41	-37.13
18	0.145	0.11	-6.41	-0.03	157.46	1.68	-11.27
19	0.140	0.73	7.54	1.14	1.86	3.89	173.45
20	0.139	0.01	-0.13	-0.01	3.08	0.12	-0.36
21	0.137	0.06	-0.51	-0.04	12.40	1.17	-2.10
22	0.132	25.82	-44.42	39.61	1019.10	114.15	-149.92
23	0.131	15.49	28.64	22.95	-611.98	72.47	-23.24
24	0.129	0.27	-1.99	-0.24	32.71	4.93	-5.72
25	0.128	0.06	3.44	0.32	-71.98	-1.05	16.93
26	0.125	6.95	-34.17	-5.59	490.38	122.94	-67.59
27	0.124	10.49	-39.30	-3.50	587.19	156.83	-136.35
28	0.123	74.97	117.86	-22.26	-2092.84	1104.90	430.02
29	0.121	1.43	-17.67	-0.58	402.20	21.78	-207.69
30	0.120	1.04	6.15	-0.41	-59.38	15.61	-20.92
31	0.116	0.47	-0.56	-1.44	-8.89	14.23	-0.68
32	0.116	0.05	-0.09	-0.10	1.59	1.31	0.55
33	0.116	1.10	4.00	-2.28	-111.52	26.51	35.47
34	0.115	9.59	-2.46	-15.41	-14.01	213.00	-94.29
35	0.114	0.00	0.00	-0.00	-0.42	0.02	-0.18
36	0.114	0.36	3.44	-1.00	-38.67	10.38	38.48
37	0.113	1.02	-1.88	-0.95	103.12	18.46	43.07
38	0.112	0.01	-0.62	0.00	15.22	0.10	-6.15
39	0.110	0.08	0.16	-0.11	2.64	1.64	-0.45
40	0.109	0.07	-0.74	0.04	31.17	0.69	1.99
41	0.108	0.12	-2.47	-0.03	51.36	1.70	-30.91
42	0.106	0.07	-3.90	-0.05	43.18	1.19	-33.71
43	0.103	0.06	-1.42	0.08	4.09	0.31	-20.75
44	0.102	0.00	-0.13	0.00	2.21	0.01	0.30
45	0.102	0.04	-0.01	-0.00	-1.61	0.53	-10.53
46	0.101	0.01	0.01	0.00	-0.59	0.10	-2.89
47	0.100	0.41	-0.26	-0.20	4.77	7.43	-10.48

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STAAD SPACE -- PAGE NO. 105

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
48	0.100	0.00	0.05	0.01	-1.57	-0.00	1.61
49	0.098	0.00	0.00	0.00	-0.03	0.00	0.03
50	0.097	0.00	-0.01	0.00	-0.62	-0.00	0.19

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Mobile 9841259154

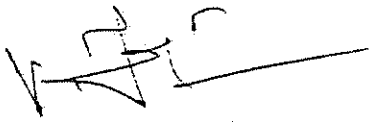
PARTICIPATION FACTORS

	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN KN		
MODE	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	0.10	0.00	66.40	0.101	0.000	66.400	2.07	0.00	0.00
2	41.90	0.00	3.62	41.999	0.000	70.019	982.09	0.00	0.00
3	30.89	0.00	3.18	72.891	0.000	73.199	736.76	0.00	0.00
4	0.05	0.00	8.70	72.937	0.000	81.901	2.88	0.00	0.00
5	2.31	0.00	3.70	75.250	0.000	85.598	143.57	0.00	0.00
6	11.79	0.00	0.39	87.040	0.000	85.991	731.86	0.00	0.00
7	0.01	0.50	0.00	87.053	0.497	85.991	0.82	0.00	0.00
8	0.16	0.00	2.05	87.210	0.498	88.045	9.75	0.00	0.00
9	0.88	0.00	2.97	88.091	0.499	91.014	54.68	0.00	0.00
10	4.10	0.00	0.23	92.196	0.499	91.241	254.81	0.00	0.00
11	0.00	5.48	0.00	92.196	5.983	91.242	0.00	0.00	0.00
12	0.00	0.72	0.02	92.198	6.699	91.265	0.11	0.00	0.00
13	0.00	0.10	0.02	92.198	6.800	91.283	0.01	0.00	0.00
14	0.00	14.89	0.01	92.198	21.685	91.296	0.00	0.00	0.00
15	0.15	0.20	0.78	92.348	21.882	92.079	9.29	0.00	0.00
16	0.02	1.17	0.00	92.364	23.047	92.079	1.02	0.00	0.00
17	0.00	16.69	0.00	92.365	39.741	92.083	0.08	0.00	0.00
18	0.00	5.87	0.00	92.367	45.610	92.083	0.11	0.00	0.00
19	0.01	1.25	0.03	92.379	46.861	92.112	0.73	0.00	0.00
20	0.00	0.05	0.00	92.379	46.907	92.112	0.01	0.00	0.00
21	0.00	0.07	0.00	92.380	46.976	92.112	0.06	0.00	0.00
22	0.42	1.23	0.98	92.796	48.207	93.091	25.82	0.00	0.00
23	0.25	0.85	0.55	93.046	49.060	93.639	15.49	0.00	0.00
24	0.00	0.23	0.00	93.050	49.291	93.642	0.27	0.00	0.00
25	0.00	3.02	0.03	93.051	52.308	93.668	0.06	0.00	0.00
26	0.11	2.71	0.07	93.163	55.014	93.741	6.95	0.00	0.00
27	0.17	2.37	0.02	93.332	57.386	93.760	10.49	0.00	0.00
28	1.21	2.98	0.11	94.540	60.371	93.866	74.97	0.00	0.00
29	0.02	3.52	0.00	94.563	63.887	93.870	1.43	0.00	0.00
30	0.02	0.59	0.00	94.588	64.476	93.873	1.04	0.00	0.00
31	0.01	0.01	0.07	94.587	64.487	93.944	0.47	0.00	0.00
32	0.00	0.00	0.00	94.588	64.490	93.947	0.05	0.00	0.00
33	0.02	0.23	0.08	94.606	64.724	94.023	1.10	0.00	0.00
34	0.15	0.01	0.40	94.760	64.734	94.422	9.59	0.00	0.00
35	0.00	0.00	0.00	94.760	64.736	94.423	0.00	0.00	0.00
36	0.01	0.53	0.04	94.766	65.263	94.468	0.36	0.00	0.00
37	0.02	0.06	0.01	94.782	65.319	94.482	1.02	0.00	0.00
38	0.00	0.66	0.00	94.783	65.978	94.482	0.01	0.00	0.00
39	0.00	0.01	0.00	94.784	65.983	94.485	0.08	0.00	0.00
40	0.00	0.12	0.00	94.785	66.105	94.485	0.07	0.00	0.00
41	0.00	0.79	0.00	94.787	66.898	94.485	0.12	0.00	0.00
42	0.00	3.28	0.00	94.788	70.179	94.486	0.07	0.00	0.00
43	0.00	0.58	0.00	94.789	70.760	94.487	0.06	0.00	0.00
44	0.00	0.28	0.00	94.789	71.041	94.487	0.00	0.00	0.00
45	0.00	0.00	0.00	94.790	71.041	94.487	0.04	0.00	0.00
46	0.00	0.00	0.00	94.790	71.041	94.488	0.01	0.00	0.00
47	0.01	0.00	0.00	94.796	71.044	94.489	0.41	0.00	0.00

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: [illegible]

	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN KN		
MODE	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
48	0.00	0.01	0.00	94.796	71.053	94.489	0.00	0.00	0.00
49	0.00	0.00	0.00	94.796	71.057	94.489	0.00	0.00	0.00
50	0.00	0.00	0.00	94.797	71.059	94.489	0.00	0.00	0.00
ZPA	5.20	0.00	0.00	100.000	0.000	0.000	187.93	0.00	0.00
						TOTAL SRSS SHEAR	1474.37	0.00	0.00
						TOTAL 10PCT SHEAR	1968.08	0.00	0.00
						TOTAL ABS SHEAR	3268.64	0.00	0.00
						TOTAL CSM SHEAR	3070.97	0.00	0.00
						TOTAL CQC SHEAR	1944.61	0.00	0.00

```
*********************************************************
* UNITS - KN     METE                                   *
* TIME PERIOD FOR X 1893 LOADING =    0.69000 SEC       *
* SA/G PER 1893=    1.971, LOAD FACTOR= 1.000           *
*       FACTOR V  PER 1893=    0.0315 X  61225.78       *
* VB Min based on Clause 7.2.2 =      673.48            *
*********************************************************
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Mobile: 9841269154

STAAD SPACE -- PAGE NO. 108

STORY DRIFT CHECK

STORY	HEIGHT (METE)	INTERSTORY DRIFT(CM) X	INTERSTORY DRIFT(CM) Z	RATIO X	RATIO Z	STATUS X	STATUS Z
BASE	0.00						
1	4.30	0.1908	0.0409	L / 2254	L / 10505	PASS	PASS
2	7.40	0.2533	0.0682	L / 1224	L / 4547	PASS	PASS
3	10.50	0.2960	0.0877	L / 1048	L / 3534	PASS	PASS
4	13.60	0.3124	0.1139	L / 992	L / 2721	PASS	PASS
5	16.70	0.3245	0.1008	L / 956	L / 3076	PASS	PASS
6	19.80	0.3114	0.1045	L / 996	L / 2967	PASS	PASS
7	22.90	0.3034	0.1156	L / 1022	L / 2683	PASS	PASS
8	26.00	0.2844	0.0819	L / 1090	L / 3785	PASS	PASS
9	29.10	0.2574	0.1308	L / 1205	L / 2371	PASS	PASS
10	32.20	0.2316	0.1105	L / 1339	L / 2807	PASS	PASS
11	35.30	0.7827	0.1652	L / 396	L / 1877	PASS	PASS

1893 RESPONSE SPECTRUM LOAD 10

RESPONSE LOAD CASE 10

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN X	Y	Z	GENERALIZED WEIGHT
1	6.199304E+01	3.532520E-02	4.056836E+04	1.627202E+04
2	2.559814E+04	3.157258E-02	2.210991E+03	9.287358E+03
3	1.887373E+04	2.079267E-03	1.942969E+03	8.267027E+03
4	2.834553E+01	6.701783E-03	5.316556E+03	9.557665E+03
5	1.413116E+03	2.998502E-02	2.259086E+03	1.158666E+04
6	7.203394E+03	1.193350E-01	2.396720E+02	8.936290E+03
7	8.109092E+00	3.035508E+02	2.673013E-03	5.992606E+01
8	9.594906E+01	7.387171E-01	1.254950E+03	8.383135E+03
9	5.381903E+02	5.968909E-02	1.814322E+03	8.282257E+03
10	2.507958E+03	1.705946E-01	1.382883E+02	7.491106E+03
11	3.737948E-02	3.350933E+03	5.503864E-01	3.089334E+02
12	1.076430E+00	4.369209E+02	1.439597E+01	3.764686E+02



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13	5.726636E-02	6.222243E+01	1.108140E+01	2.658998E+02
14	7.745718E-04	9.094298E+03	7.929344E+00	3.429756E+02
15	9.143322E+01	1.199298E+02	4.784315E+02	5.217684E+03
16	1.001958E+01	7.122043E+02	2.766931E-02	1.586850E+02
17	7.459935E-01	1.019903E+04	2.158825E+00	5.478036E+02
18	1.108382E+00	3.585770E+03	6.021136E-02	4.642968E+02
19	7.192907E+00	7.646762E+02	1.741946E+01	7.114969E+02
20	5.696130E-02	2.818636E+01	8.613258E-02	2.349121E+02
21	6.053865E-01	4.208130E+01	2.740454E-01	2.307283E+02
22	2.541639E+02	7.519434E+02	5.979327E+02	2.104829E+03
23	1.524448E+02	5.211903E+02	3.347721E+02	7.530527E+02
24	2.706557E+00	1.412628E+02	2.009143E+00	1.532796E+02
25	6.213706E-01	1.843412E+03	1.610822E+01	9.044584E+02
26	6.843920E+01	1.653161E+03	4.429553E+01	3.204156E+02
27	1.032643E+02	1.448856E+03	1.151470E+01	4.303895E+02
28	7.379268E+02	1.823670E+03	6.503748E+01	8.322565E+03
29	1.408379E+01	2.148679E+03	2.307256E+00	3.000100E+02
30	1.019248E+01	3.599259E+02	1.620098E+00	9.096634E+02
31	4.621713E+00	6.541633E+00	4.342010E+01	2.732399E+02
32	5.331634E-01	1.635129E+00	1.913953E+00	2.001261E+02
33	1.086085E+01	1.429309E+02	4.656783E+01	2.051489E+02
34	9.437127E+01	6.232625E+00	2.437689E+02	1.022309E+03
35	1.199957E-03	9.116919E-01	7.917321E-01	2.895967E+02
36	3.551564E+00	3.222578E+02	2.721065E+01	4.198006E+02
37	1.001242E+01	3.428417E+01	8.646351E+00	4.890992E+02
38	9.301210E-02	4.023608E+02	1.887419E-02	2.520843E+02
39	7.491983E-01	3.213486E+00	1.546232E+00	7.704093E+02
40	7.116638E-01	7.489764E+01	2.044485E-01	2.669022E+02
41	1.217268E+00	4.842073E+02	7.664999E-02	3.368254E+02
42	7.344379E-01	2.004866E+03	3.460133E-01	3.537266E+03
43	5.548587E-01	3.544668E+02	1.125711E+00	2.280309E+03
44	8.823128E-03	1.716151E+02	3.063632E-02	6.854560E+02
45	3.683870E-01	1.617273E-02	4.557333E-05	4.904215E+02
46	7.562735E-02	2.813336E-01	3.253459E-03	3.469349E+02
47	4.050751E+00	1.584730E+00	9.557342E-01	2.577739E+02
48	3.896262E-02	5.982795E+00	8.361364E-02	4.639641E+02
49	2.379424E-04	2.486121E+00	4.741061E-05	1.190567E+03
50	1.680585E-02	8.909123E-01	1.045978E-01	1.238059E+03

CQC MODAL COMBINATION METHOD USED.
MISSING MASS METHOD USED.

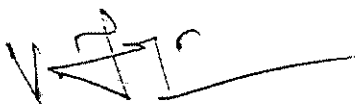
DYNAMIC WEIGHT X Y Z 6.109682E+04 6.109681E+04 6.109681E+04 KN
MISSING WEIGHT X Y Z -3.179133E+03 -1.768205E+04 -3.366785E+03 KN
MODAL WEIGHT X Y Z 5.791769E+04 4.341476E+04 5.773002E+04 KN

RESPONSE LOAD CASE 10



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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile [redacted]

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	0.82137	-0.0334	0.0000	0.0000
2	0.94403	-0.0384	0.0000	0.0000
3	0.96054	-0.0390	0.0000	0.0000
4	2.50000	-0.1016	0.0000	0.0000
5	2.50000	-0.1016	0.0000	0.0000
6	2.50000	-0.1016	0.0000	0.0000
7	2.50000	-0.1016	0.0000	0.0000
8	2.50000	-0.1016	0.0000	0.0000
9	2.50000	-0.1016	0.0000	0.0000
10	2.50000	-0.1016	0.0000	0.0000
11	2.50000	-0.1016	0.0000	0.0000
12	2.50000	-0.1016	0.0000	0.0000
13	2.50000	-0.1016	0.0000	0.0000
14	2.50000	-0.1016	0.0000	0.0000
15	2.50000	-0.1016	0.0000	0.0000
16	2.50000	-0.1016	0.0000	0.0000
17	2.50000	-0.1016	0.0000	0.0000
18	2.50000	-0.1016	0.0000	0.0000
19	2.50000	-0.1016	0.0000	0.0000
20	2.50000	-0.1016	0.0000	0.0000
21	2.50000	-0.1016	0.0000	0.0000
22	2.50000	-0.1016	0.0000	0.0000
23	2.50000	-0.1016	0.0000	0.0000
24	2.50000	-0.1016	0.0000	0.0000
25	2.50000	-0.1016	0.0000	0.0000
26	2.50000	-0.1016	0.0000	0.0000
27	2.50000	-0.1016	0.0000	0.0000
28	2.50000	-0.1016	0.0000	0.0000
29	2.50000	-0.1016	0.0000	0.0000
30	2.50000	-0.1016	0.0000	0.0000
31	2.50000	-0.1016	0.0000	0.0000
32	2.50000	-0.1016	0.0000	0.0000
33	2.50000	-0.1016	0.0000	0.0000
34	2.50000	-0.1016	0.0000	0.0000
35	2.50000	-0.1016	0.0000	0.0000
36	2.50000	-0.1016	0.0000	0.0000
37	2.50000	-0.1016	0.0000	0.0000
38	2.50000	-0.1016	0.0000	0.0000
39	2.50000	-0.1016	0.0000	0.0000
40	2.50000	-0.1016	0.0000	0.0000
41	2.50000	-0.1016	0.0000	0.0000
42	2.50000	-0.1016	0.0000	0.0000
43	2.50000	-0.1016	0.0000	0.0000
44	2.50000	-0.1016	0.0000	0.0000
45	2.50000	-0.1016	0.0000	0.0000
46	2.50000	-0.1016	0.0000	0.0000
47	2.50000	-0.1016	0.0000	0.0000
48	2.49662	-0.1015	0.0000	0.0000
49	2.47226	-0.1005	0.0000	0.0000
50	2.45750	-0.0999	0.0000	0.0000



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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 98417[illegible]

STAAD SPACE -- PAGE NO. 111

PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
11	35.30	141.00	0.00	0.00
10	32.20	519.43	0.00	0.00
9	29.10	821.59	0.00	0.00
8	26.00	1029.21	0.00	0.00
7	22.90	1187.25	0.00	0.00
6	19.80	1321.47	0.00	0.00
5	16.70	1449.38	0.00	0.00
4	13.60	1594.08	0.00	0.00
3	10.50	1732.47	0.00	0.00
2	7.40	1856.07	0.00	0.00
1	4.30	1931.62	0.00	0.00
BASE	0.00	1935.51	0.00	0.00

MODE	ACCELERATION-G	DAMPING
1	2.08628	0.05000
2	2.39785	0.05000
3	2.43977	0.05000
4	6.35000	0.05000
5	6.35000	0.05000
6	6.35000	0.05000
7	6.35000	0.05000
8	6.35000	0.05000
9	6.35000	0.05000
10	6.35000	0.05000
11	6.35000	0.05000
12	6.35000	0.05000
13	6.35000	0.05000
14	6.35000	0.05000
15	6.35000	0.05000
16	6.35000	0.05000
17	6.35000	0.05000
18	6.35000	0.05000
19	6.35000	0.05000
20	6.35000	0.05000
21	6.35000	0.05000
22	6.35000	0.05000
23	6.35000	0.05000
24	6.35000	0.05000
25	6.35000	0.05000
26	6.35000	0.05000
27	6.35000	0.05000
28	6.35000	0.05000
29	6.35000	0.05000

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Mobile: 9841269154

MODE	ACCELERATION-G	DAMPING
30	6.35000	0.05000
31	6.35000	0.05000
32	6.35000	0.05000
33	6.35000	0.05000
34	6.35000	0.05000
35	6.35000	0.05000
36	6.35000	0.05000
37	6.35000	0.05000
38	6.35000	0.05000
39	6.35000	0.05000
40	6.35000	0.05000
41	6.35000	0.05000
42	6.35000	0.05000
43	6.35000	0.05000
44	6.35000	0.05000
45	6.35000	0.05000
46	6.35000	0.05000
47	6.35000	0.05000
48	6.34142	0.05000
49	6.27954	0.05000
50	6.24205	0.05000

PEAK STORY SHEAR MIS

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN INCLUDING MISSING MASS CORRECTION		
		X	Y	Z
11	35.30	141.48	0.00	0.00
10	32.20	519.66	0.00	0.00
9	29.10	821.61	0.00	0.00
8	26.00	1029.58	0.00	0.00
7	22.90	1187.43	0.00	0.00
6	19.80	1321.55	0.00	0.00
5	16.70	1449.93	0.00	0.00
4	13.60	1594.17	0.00	0.00
3	10.50	1733.01	0.00	0.00
2	7.40	1857.14	0.00	0.00
1	4.30	1932.24	0.00	0.00
BASE	0.00	1944.61	0.00	0.00
ZPA		3.69455		
ZPAFREQ		33.00000		

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR. CHENNAI - 600 119.
Mobile: 98410[illegible]54

MODAL BASE ACTIONS

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.656	-2.07	0.05	52.94	1242.04	-352.21	40.28
2	1.441	-982.09	-1.09	-288.63	-7059.95	-11933.92	22815.36
3	1.416	-736.76	0.24	236.39	5741.26	-11991.61	17777.64
4	0.491	-2.88	0.04	39.44	20.89	-274.46	-45.23
5	0.434	-143.57	0.66	-181.53	-225.53	-876.75	-103.10
6	0.409	-731.86	2.98	133.50	156.82	-10649.37	1510.76
7	0.324	-0.82	-5.04	-0.01	116.42	-11.00	-52.29
8	0.255	-9.75	-0.86	35.26	203.89	-355.64	69.87
9	0.217	-54.68	0.58	-100.40	-635.41	-145.89	298.34
10	0.199	-254.81	2.10	59.83	308.79	-4293.73	1235.30
11	0.186	-0.00	-1.14	-0.01	26.37	0.04	-8.97
12	0.177	-0.11	-2.20	-0.40	48.93	0.88	-16.38
13	0.172	-0.01	0.21	-0.09	-4.34	0.43	1.69
14	0.170	-0.00	-0.27	0.01	1.45	-0.05	-1.72
15	0.163	-9.29	10.64	21.25	-118.29	-247.97	25.37
16	0.159	-1.02	-8.58	0.05	204.94	-13.80	-55.50
17	0.146	-0.08	8.86	-0.13	-66.48	-0.41	37.13
18	0.145	-0.11	6.41	0.03	-157.45	-1.68	11.27
19	0.140	-0.73	-7.54	-1.14	-1.85	-3.89	-173.45
20	0.139	-0.01	0.13	0.01	-3.08	-0.12	0.36
21	0.137	-0.06	0.51	0.04	-12.40	-1.17	2.10
22	0.132	-25.82	44.42	-39.61	-1019.10	-114.15	149.92
23	0.131	-15.49	-28.64	-22.95	611.98	-72.47	23.24
24	0.129	-0.27	1.99	0.24	-32.71	-4.93	5.72
25	0.128	-0.06	-3.44	-0.32	71.98	1.05	-16.93
26	0.125	-6.95	34.17	5.59	-490.38	-122.94	67.59
27	0.124	-10.49	39.30	3.50	-587.19	-156.83	136.35
28	0.123	-74.97	-117.86	22.26	2092.84	-1104.90	-430.02
29	0.121	-1.43	17.67	0.58	-402.20	-21.78	207.69
30	0.120	-1.04	-6.15	0.41	59.38	-15.61	20.92
31	0.116	-0.47	0.56	1.44	8.89	-14.23	0.68
32	0.116	-0.05	0.09	0.10	-1.59	-1.31	-0.55
33	0.116	-1.10	-4.00	2.28	111.52	-26.51	-35.47
34	0.115	-9.59	2.46	15.41	14.01	-213.00	94.29
35	0.114	-0.00	-0.00	0.00	0.42	-0.02	0.18
36	0.114	-0.36	-3.44	1.00	38.67	-10.38	-38.48
37	0.113	-1.02	1.88	0.95	-103.12	-18.46	-43.07
38	0.112	-0.01	0.62	-0.00	-15.22	-0.10	6.15
39	0.110	-0.08	-0.16	0.11	-2.64	-1.64	0.45
40	0.109	-0.07	0.74	-0.04	-31.17	-0.69	-1.99
41	0.108	-0.12	2.47	0.03	-51.36	-1.70	30.91
42	0.106	-0.07	3.90	0.05	-43.18	-1.19	33.71
43	0.103	-0.06	1.42	-0.08	-4.09	-0.31	20.75
44	0.102	-0.00	0.13	-0.00	-2.21	-0.01	-0.30
45	0.102	-0.04	0.01	0.00	1.61	-0.53	10.53
46	0.101	-0.01	-0.01	-0.00	0.59	-0.10	2.89
47	0.100	-0.41	0.26	0.20	-4.77	-7.43	10.48

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841[illegible]54

STAAD SPACE -- PAGE NO. 114

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
48	0.100	-0.00	-0.05	-0.01	1.57	0.00	-1.61
49	0.098	-0.00	-0.00	-0.00	0.03	-0.00	-0.03
50	0.097	-0.00	0.01	-0.00	0.62	0.00	-0.19

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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: [illegible]

PARTICIPATION FACTORS

	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN KN		
MODE	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	0.10	0.00	66.40	0.101	0.000	66.400	-2.07	0.00	0.00
2	41.90	0.00	3.62	41.999	0.000	70.019	-982.09	0.00	0.00
3	30.89	0.00	3.18	72.891	0.000	73.199	-736.76	0.00	0.00
4	0.05	0.00	8.70	72.937	0.000	81.901	-2.88	0.00	0.00
5	2.31	0.00	3.70	75.250	0.000	85.598	-143.57	0.00	0.00
6	11.79	0.00	0.39	87.040	0.000	85.991	-731.86	0.00	0.00
7	0.01	0.50	0.00	87.053	0.497	85.991	-0.82	0.00	0.00
8	0.16	0.00	2.05	87.210	0.498	88.045	-9.75	0.00	0.00
9	0.88	0.00	2.97	88.091	0.499	91.014	-54.68	0.00	0.00
10	4.10	0.00	0.23	92.196	0.499	91.241	-254.81	0.00	0.00
11	0.00	5.48	0.00	92.196	5.983	91.242	-0.00	0.00	0.00
12	0.00	0.72	0.02	92.198	6.699	91.265	-0.11	0.00	0.00
13	0.00	0.10	0.02	92.198	6.800	91.283	-0.01	0.00	0.00
14	0.00	14.89	0.01	92.198	21.685	91.296	-0.00	0.00	0.00
15	0.15	0.20	0.78	92.348	21.882	92.079	-9.29	0.00	0.00
16	0.02	1.17	0.00	92.364	23.047	92.079	-1.02	0.00	0.00
17	0.00	16.69	0.00	92.365	39.741	92.083	-0.08	0.00	0.00
18	0.00	5.87	0.00	92.367	45.610	92.083	-0.11	0.00	0.00
19	0.01	1.25	0.03	92.379	46.861	92.112	-0.73	0.00	0.00
20	0.00	0.05	0.00	92.379	46.907	92.112	-0.01	0.00	0.00
21	0.00	0.07	0.00	92.380	46.976	92.112	-0.06	0.00	0.00
22	0.42	1.23	0.98	92.796	48.207	93.091	-25.82	0.00	0.00
23	0.25	0.85	0.55	93.046	49.060	93.639	-15.49	0.00	0.00
24	0.00	0.23	0.00	93.050	49.291	93.642	-0.27	0.00	0.00
25	0.00	3.02	0.03	93.051	52.308	93.668	-0.06	0.00	0.00
26	0.11	2.71	0.07	93.163	55.014	93.741	-6.95	0.00	0.00
27	0.17	2.37	0.02	93.332	57.386	93.760	-10.49	0.00	0.00
28	1.21	2.98	0.11	94.540	60.371	93.866	-74.97	0.00	0.00
29	0.02	3.52	0.00	94.563	63.887	93.870	-1.43	0.00	0.00
30	0.02	0.59	0.00	94.580	64.476	93.873	-1.04	0.00	0.00
31	0.01	0.01	0.07	94.587	64.487	93.944	-0.47	0.00	0.00
32	0.00	0.00	0.00	94.588	64.490	93.947	-0.05	0.00	0.00
33	0.02	0.23	0.08	94.606	64.724	94.023	-1.10	0.00	0.00
34	0.15	0.01	0.40	94.760	64.734	94.422	-9.59	0.00	0.00
35	0.00	0.00	0.00	94.760	64.736	94.423	-0.00	0.00	0.00
36	0.01	0.53	0.04	94.766	65.263	94.468	-0.36	0.00	0.00
37	0.02	0.06	0.01	94.782	65.319	94.482	-1.02	0.00	0.00
38	0.00	0.66	0.00	94.783	65.978	94.482	-0.01	0.00	0.00
39	0.00	0.01	0.00	94.784	65.983	94.485	-0.08	0.00	0.00
40	0.00	0.12	0.00	94.785	66.105	94.485	-0.07	0.00	0.00
41	0.00	0.79	0.00	94.787	66.898	94.485	-0.12	0.00	0.00
42	0.00	3.28	0.00	94.788	70.179	94.486	-0.07	0.00	0.00
43	0.00	0.58	0.00	94.789	70.760	94.487	-0.06	0.00	0.00
44	0.00	0.28	0.00	94.789	71.041	94.487	-0.00	0.00	0.00
45	0.00	0.00	0.00	94.790	71.041	94.487	-0.04	0.00	0.00
46	0.00	0.00	0.00	94.790	71.041	94.488	-0.01	0.00	0.00
47	0.01	0.00	0.00	94.796	71.044	94.489	-0.41	0.00	0.00

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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9[illegible]

STAAD SPACE -- PAGE NO. 116

MODE	MASS PARTICIPATION FACTORS IN PERCENT X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	BASE SHEAR IN KN X	Y	Z
48	0.00	0.01	0.00	94.796	71.053	94.489	-0.00	0.00	0.00
49	0.00	0.00	0.00	94.796	71.057	94.489	-0.00	0.00	0.00
50	0.00	0.00	0.00	94.797	71.059	94.489	-0.00	0.00	0.00
ZPA	5.20	0.00	0.00	100.000	0.000	0.000	-187.93	0.00	0.00
					TOTAL SRSS SHEAR		-1474.37	0.00	0.00
					TOTAL 10PCT SHEAR		-1968.08	0.00	0.00
					TOTAL ABS SHEAR		-3268.64	0.00	0.00
					TOTAL CSM SHEAR		-3070.97	0.00	0.00
					TOTAL CQC SHEAR		-1944.61	0.00	0.00

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STAAD SPACE -- PAGE NO. 117

STORY DRIFT CHECK

STORY	HEIGHT	INTERSTORY DRIFT(CM)		RATIO		STATUS	
	(METE)	X	Z	X	Z	X	Z
BASE	0.00						
1	4.30	0.1908	0.0409	L / 2254	L / 10505	PASS	PASS
2	7.40	0.2533	0.0682	L / 1224	L / 4547	PASS	PASS
3	10.50	0.2960	0.0877	L / 1048	L / 3534	PASS	PASS
4	13.60	0.3124	0.1139	L / 992	L / 2721	PASS	PASS
5	16.70	0.3245	0.1008	L / 956	L / 3076	PASS	PASS
6	19.80	0.3114	0.1045	L / 996	L / 2967	PASS	PASS
7	22.90	0.3034	0.1156	L / 1022	L / 2683	PASS	PASS
8	26.00	0.2844	0.0819	L / 1090	L / 3785	PASS	PASS
9	29.10	0.2574	0.1308	L / 1205	L / 2371	PASS	PASS
10	32.20	0.2316	0.1105	L / 1339	L / 2807	PASS	PASS
11	35.30	0.7827	0.1652	L / 396	L / 1877	PASS	PASS

1893 RESPONSE SPECTRUM LOAD 11

RESPONSE LOAD CASE 11

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN X	Y	Z	GENERALIZED WEIGHT
1	6.199304E+01	3.532520E-02	4.056836E+04	1.627202E+04
2	2.559814E+04	3.157258E-02	2.210991E+03	9.287358E+03
3	1.887373E+04	2.079267E-03	1.942969E+03	8.267027E+03
4	2.834553E+01	6.701783E-03	5.316556E+03	9.557665E+03
5	1.413116E+03	2.998502E-02	2.259086E+03	1.158666E+04
6	7.203394E+03	1.193350E-01	2.396720E+02	8.936290E+03
7	8.109092E+00	3.035508E+02	2.673013E-03	5.992606E+01
8	9.594906E+01	7.387171E-01	1.254950E+03	8.383135E+03
9	5.381903E+02	5.968909E-02	1.814322E+03	8.282257E+03
10	2.507958E+03	1.705946E-01	1.382883E+02	7.491106E+03
11	3.737948E-02	3.350933E+03	5.503864E-01	3.089334E+02
12	1.076430E+00	4.369209E+02	1.439597E+01	3.764686E+02

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13	6.726636E-02	6.222243E+01	1.108140E+01	2.658998E+02
14	7.745718E-04	9.094298E+03	7.929344E+00	3.429756E+02
15	9.143322E+01	1.199298E+02	4.784315E+02	5.217684E+03
16	1.001958E+01	7.122043E+02	2.766931E-02	1.586850E+02
17	7.459935E-01	1.019903E+04	2.158825E+00	5.478036E+02
18	1.108382E+00	3.585770E+03	6.021136E-02	4.642968E+02
19	7.192907E+00	7.646762E+02	1.741946E+01	7.114969E+02
20	5.696130E-02	2.818636E+01	8.613258E-02	2.349121E+02
21	6.053865E-01	4.208130E+01	2.740454E-01	2.307283E+02
22	2.541639E+02	7.519434E+02	5.979327E+02	2.104829E+03
23	1.524448E+02	5.211903E+02	3.347721E+02	7.530527E+02
24	2.706557E+00	1.412628E+02	2.009143E+00	1.532796E+02
25	6.213706E-01	1.843412E+03	1.610822E+01	9.044584E+02
26	6.843920E+01	1.653161E+03	4.429553E+01	3.204156E+02
27	1.032643E+02	1.448856E+03	1.151470E+01	4.303895E+02
28	7.379268E+02	1.823670E+03	6.503748E+01	8.322565E+03
29	1.408379E+01	2.148679E+03	2.307256E+00	3.000100E+02
30	1.019248E+01	3.599259E+02	1.620098E+00	9.096634E+02
31	4.621713E+00	6.541633E+00	4.342010E+01	2.732399E+02
32	5.331634E-01	1.635129E+00	1.913953E+00	2.001261E+02
33	1.086085E+01	1.429309E+02	4.656783E+01	2.051489E+02
34	9.437127E+01	6.232625E+00	2.437689E+02	1.022309E+03
35	1.199957E-03	9.116919E-01	7.917321E-01	2.895967E+02
36	3.551564E+00	3.222578E+02	2.721065E+01	4.198006E+02
37	1.001242E+01	3.428417E+01	8.646351E+00	4.890992E+02
38	9.301210E-02	4.023608E+02	1.887419E-02	2.520843E+02
39	7.491983E-01	3.213486E+00	1.546232E+00	7.704098E+02
40	7.116638E-01	7.489764E+01	2.044485E-01	2.669022E+02
41	1.217268E+00	4.842073E+02	7.664999E-02	3.368254E+02
42	7.344379E-01	2.004866E+03	3.460133E-01	3.537266E+03
43	5.548587E-01	3.544668E+02	1.125711E+00	2.280309E+03
44	8.823128E-03	1.716151E+02	3.063632E-02	6.854560E+02
45	3.683870E-01	1.617273E-02	4.557333E-05	4.904215E+02
46	7.562735E-02	2.813336E-01	3.253459E-03	3.469349E+02
47	4.050751E+00	1.584730E+00	9.557342E-01	2.577739E+02
48	3.896262E-02	5.982705E+00	8.361364E-02	4.639641E+02
49	2.379424E-04	2.486121E+00	4.741061E-05	1.190567E+03
50	1.680585E-02	8.909123E-01	1.045978E-01	1.238059E+03

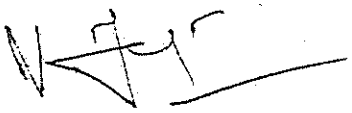
CQC MODAL COMBINATION METHOD USED.
MISSING MASS METHOD USED.

DYNAMIC WEIGHT X Y Z	6.109682E+04	6.109681E+04	6.109681E+04	KN
MISSING WEIGHT X Y Z	-3.179133E+03	-1.768205E+04	-3.366785E+03	KN
MODAL WEIGHT X Y Z	5.791769E+04	4.341476E+04	5.773002E+04	KN

RESPONSE LOAD CASE 11

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MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	0.82137	0.0000	0.0000	0.0510
2	0.94403	0.0000	0.0000	0.0586
3	0.96054	0.0000	0.0000	0.0596
4	2.50000	0.0000	0.0000	0.1552
5	2.50000	0.0000	0.0000	0.1552
6	2.50000	0.0000	0.0000	0.1552
7	2.50000	0.0000	0.0000	0.1552
8	2.50000	0.0000	0.0000	0.1552
9	2.50000	0.0000	0.0000	0.1552
10	2.50000	0.0000	0.0000	0.1552
11	2.50000	0.0000	0.0000	0.1552
12	2.50000	0.0000	0.0000	0.1552
13	2.50000	0.0000	0.0000	0.1552
14	2.50000	0.0000	0.0000	0.1552
15	2.50000	0.0000	0.0000	0.1552
16	2.50000	0.0000	0.0000	0.1552
17	2.50000	0.0000	0.0000	0.1552
18	2.50000	0.0000	0.0000	0.1552
19	2.50000	0.0000	0.0000	0.1552
20	2.50000	0.0000	0.0000	0.1552
21	2.50000	0.0000	0.0000	0.1552
22	2.50000	0.0000	0.0000	0.1552
23	2.50000	0.0000	0.0000	0.1552
24	2.50000	0.0000	0.0000	0.1552
25	2.50000	0.0000	0.0000	0.1552
26	2.50000	0.0000	0.0000	0.1552
27	2.50000	0.0000	0.0000	0.1552
28	2.50000	0.0000	0.0000	0.1552
29	2.50000	0.0000	0.0000	0.1552
30	2.50000	0.0000	0.0000	0.1552
31	2.50000	0.0000	0.0000	0.1552
32	2.50000	0.0000	0.0000	0.1552
33	2.50000	0.0000	0.0000	0.1552
34	2.50000	0.0000	0.0000	0.1552
35	2.50000	0.0000	0.0000	0.1552
36	2.50000	0.0000	0.0000	0.1552
37	2.50000	0.0000	0.0000	0.1552
38	2.50000	0.0000	0.0000	0.1552
39	2.50000	0.0000	0.0000	0.1552
40	2.50000	0.0000	0.0000	0.1552
41	2.50000	0.0000	0.0000	0.1552
42	2.50000	0.0000	0.0000	0.1552
43	2.50000	0.0000	0.0000	0.1552
44	2.50000	0.0000	0.0000	0.1552
45	2.50000	0.0000	0.0000	0.1552
46	2.50000	0.0000	0.0000	0.1552
47	2.50000	0.0000	0.0000	0.1552
48	2.49662	0.0000	0.0000	0.1550
49	2.47226	0.0000	0.0000	0.1535
50	2.45750	0.0000	0.0000	0.1526



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3-B, RAMANIYAM GAURAVV - 2
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Mobile :

PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
11	35.30	0.00	0.00	183.18
10	32.20	0.00	0.00	672.53
9	29.10	0.00	0.00	1053.13
8	26.00	0.00	0.00	1314.36
7	22.90	0.00	0.00	1510.63
6	19.80	0.00	0.00	1674.96
5	16.70	0.00	0.00	1832.17
4	13.60	0.00	0.00	2013.20
3	10.50	0.00	0.00	2187.90
2	7.40	0.00	0.00	2344.05
1	4.30	0.00	0.00	2437.40
BASE	0.00	0.00	0.00	2442.55

MODE	ACCELERATION-G	DAMPING
1	3.18692	0.05000
2	3.66285	0.05000
3	3.72689	0.05000
4	9.70000	0.05000
5	9.70000	0.05000
6	9.70000	0.05000
7	9.70000	0.05000
8	9.70000	0.05000
9	9.70000	0.05000
10	9.70000	0.05000
11	9.70000	0.05000
12	9.70000	0.05000
13	9.70000	0.05000
14	9.70000	0.05000
15	9.70000	0.05000
16	9.70000	0.05000
17	9.70000	0.05000
18	9.70000	0.05000
19	9.70000	0.05000
20	9.70000	0.05000
21	9.70000	0.05000
22	9.70000	0.05000
23	9.70000	0.05000
24	9.70000	0.05000
25	9.70000	0.05000
26	9.70000	0.05000
27	9.70000	0.05000
28	9.70000	0.05000
29	9.70000	0.05000



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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

STAAD SPACE -- PAGE NO. 121

MODE	ACCELERATION-G	DAMPING
30	9.70000	0.05000
31	9.70000	0.05000
32	9.70000	0.05000
33	9.70000	0.05000
34	9.70000	0.05000
35	9.70000	0.05000
36	9.70000	0.05000
37	9.70000	0.05000
38	9.70000	0.05000
39	9.70000	0.05000
40	9.70000	0.05000
41	9.70000	0.05000
42	9.70000	0.05000
43	9.70000	0.05000
44	9.70000	0.05000
45	9.70000	0.05000
46	9.70000	0.05000
47	9.70000	0.05000
48	9.68690	0.05000
49	9.59237	0.05000
50	9.53510	0.05000

PEAK STORY SHEAR MIS

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN INCLUDING MISSING MASS CORRECTION		
		X	Y	Z
11	35.30	0.00	0.00	183.91
10	32.20	0.00	0.00	672.82
9	29.10	0.00	0.00	1053.20
8	26.00	0.00	0.00	1314.91
7	22.90	0.00	0.00	1510.86
6	19.80	0.00	0.00	1675.11
5	16.70	0.00	0.00	1833.04
4	13.60	0.00	0.00	2013.32
3	10.50	0.00	0.00	2188.90
2	7.40	0.00	0.00	2345.83
1	4.30	0.00	0.00	2440.36
BASE	0.00	0.00	0.00	2461.40
ZPA		5.64364		
ZPAFREQ		33.00000		

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
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MODAL BASE ACTIONS

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.656	-80.86	1.93	2068.61	48535.26	-13763.23	1573.96
2	1.441	440.90	0.49	129.58	3169.49	5357.60	-18242.70
3	1.416	-361.10	0.12	115.86	2813.90	-5877.32	8713.17
4	0.491	-60.25	0.93	825.13	436.95	-5741.75	-946.30
5	0.434	277.30	-1.28	350.61	435.59	1693.38	199.13
6	0.409	-203.92	0.83	37.20	43.70	-2967.30	420.95
7	0.324	0.02	0.14	0.00	-3.23	0.30	1.45
8	0.255	-53.85	-4.73	194.77	1126.39	-1964.71	385.97
9	0.217	153.36	-1.62	281.58	1782.12	409.17	-836.77
10	0.199	-91.40	0.75	21.46	110.76	-1540.16	443.10
11	0.186	0.02	6.67	0.09	-154.57	-0.22	52.58
12	0.177	0.61	12.31	2.23	-273.36	-4.93	91.48
13	0.172	0.13	-4.08	1.72	85.05	-8.39	-33.18
14	0.170	-0.01	-41.68	1.23	224.18	-7.83	-266.44
15	0.163	-32.46	37.18	74.25	-413.33	-866.49	88.63
16	0.159	-0.08	-0.69	0.00	16.45	-1.11	-4.46
17	0.146	0.20	-23.03	0.34	172.75	1.08	-96.48
18	0.145	-0.04	2.28	0.01	-56.06	-0.60	4.01
19	0.140	1.74	17.91	2.70	4.43	9.25	412.33
20	0.139	-0.01	0.24	0.01	-5.78	-0.22	0.67
21	0.137	-0.06	0.53	0.04	-12.74	-1.21	2.15
22	0.132	60.50	-104.07	92.80	2387.72	267.45	-351.25
23	0.131	35.06	64.83	51.96	-1385.33	164.05	-52.61
24	0.129	-0.36	2.61	0.31	-43.06	-6.49	7.52
25	0.128	0.49	26.74	2.50	-559.82	-8.18	131.66
26	0.125	-8.55	42.00	6.87	-602.64	-151.08	83.07
27	0.124	-5.35	20.05	1.79	-299.52	-80.00	69.55
28	0.123	-34.00	-53.45	10.09	949.10	-501.07	-195.01
29	0.121	-0.88	10.93	0.36	-248.67	-13.47	128.41
30	0.120	-0.63	-3.75	0.25	36.16	-9.51	12.74
31	0.116	-2.20	2.62	6.74	41.62	-66.62	3.18
32	0.116	-0.16	0.27	0.30	-4.59	-3.80	-1.59
33	0.116	-3.49	-12.66	7.23	352.74	-83.85	-112.21
34	0.115	-23.54	6.05	37.83	34.38	-522.92	231.49
35	0.114	-0.00	-0.13	0.12	16.65	-0.70	7.15
36	0.114	-1.53	-14.53	4.22	163.52	-43.89	-162.72
37	0.113	-1.44	2.67	1.34	-146.38	-26.21	-61.13
38	0.112	0.01	-0.43	0.00	10.47	0.07	-4.23
39	0.110	-0.17	-0.35	0.24	-5.80	-3.61	0.98
40	0.109	0.06	-0.61	0.03	25.52	0.56	1.63
41	0.108	-0.05	0.95	0.01	-19.69	-0.65	11.85
42	0.106	-0.08	4.09	0.05	-45.28	-1.24	35.34
43	0.103	0.12	-3.10	0.17	8.90	0.68	-45.15
44	0.102	0.00	-0.36	0.00	6.30	0.04	0.85
45	0.102	-0.00	0.00	0.00	0.03	-0.01	0.18
46	0.101	0.00	0.00	0.00	-0.19	0.03	-0.92
47	0.100	-0.31	0.19	0.15	-3.54	-5.51	7.77

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile 9841285151

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
48	0.100	0.01	0.11	0.01	-3.52	-0.01	3.60
49	0.098	0.00	0.00	0.00	-0.02	0.00	0.02
50	0.097	0.01	-0.05	0.02	-2.37	-0.00	0.74

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Mobile: 9841269154

PARTICIPATION FACTORS

	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN KN		
MODE	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	0.10	0.00	66.40	0.101	0.000	66.400	0.00	0.00	2068.61
2	41.90	0.00	3.62	41.999	0.000	70.019	0.00	0.00	129.58
3	30.89	0.00	3.18	72.891	0.000	73.199	0.00	0.00	115.86
4	0.05	0.00	8.70	72.937	0.000	81.901	0.00	0.00	825.13
5	2.31	0.00	3.70	75.250	0.000	85.598	0.00	0.00	350.61
6	11.79	0.00	0.39	87.040	0.000	85.991	0.00	0.00	37.20
7	0.01	0.50	0.00	87.053	0.497	85.991	0.00	0.00	0.00
8	0.16	0.00	2.05	87.210	0.498	88.045	0.00	0.00	194.77
9	0.88	0.00	2.97	88.091	0.499	91.014	0.00	0.00	281.58
10	4.10	0.00	0.23	92.196	0.499	91.241	0.00	0.00	21.46
11	0.00	5.48	0.00	92.196	5.983	91.242	0.00	0.00	0.09
12	0.00	0.72	0.02	92.198	6.699	91.265	0.00	0.00	2.23
13	0.00	0.10	0.02	92.198	6.800	91.283	0.00	0.00	1.72
14	0.00	14.89	0.01	92.198	21.685	91.296	0.00	0.00	1.23
15	0.15	0.20	0.78	92.348	21.882	92.079	0.00	0.00	74.25
16	0.02	1.17	0.00	92.364	23.047	92.079	0.00	0.00	0.00
17	0.00	16.69	0.00	92.365	39.741	92.083	0.00	0.00	0.34
18	0.00	5.87	0.00	92.367	45.610	92.083	0.00	0.00	0.01
19	0.01	1.25	0.03	92.379	46.861	92.112	0.00	0.00	2.70
20	0.00	0.05	0.00	92.379	46.907	92.112	0.00	0.00	0.01
21	0.00	0.07	0.00	92.380	46.976	92.112	0.00	0.00	0.04
22	0.42	1.23	0.98	92.796	48.207	93.091	0.00	0.00	92.80
23	0.25	0.85	0.55	93.046	49.060	93.639	0.00	0.00	51.96
24	0.00	0.23	0.00	93.050	49.291	93.642	0.00	0.00	0.31
25	0.00	3.02	0.03	93.051	52.308	93.668	0.00	0.00	2.50
26	0.11	2.71	0.07	93.163	55.014	93.741	0.00	0.00	6.87
27	0.17	2.37	0.02	93.332	57.386	93.760	0.00	0.00	1.79
28	1.21	2.98	0.11	94.540	60.371	93.866	0.00	0.00	10.09
29	0.02	3.52	0.00	94.563	63.887	93.870	0.00	0.00	0.36
30	0.02	0.59	0.00	94.580	64.476	93.873	0.00	0.00	0.25
31	0.01	0.01	0.07	94.587	64.487	93.944	0.00	0.00	6.74
32	0.00	0.00	0.00	94.588	64.490	93.947	0.00	0.00	0.30
33	0.02	0.23	0.08	94.606	64.724	94.023	0.00	0.00	7.23
34	0.15	0.01	0.40	94.760	64.734	94.422	0.00	0.00	37.83
35	0.00	0.00	0.00	94.760	64.736	94.423	0.00	0.00	0.12
36	0.01	0.53	0.04	94.766	65.263	94.468	0.00	0.00	4.22
37	0.02	0.06	0.01	94.782	65.319	94.482	0.00	0.00	1.34
38	0.00	0.66	0.00	94.783	65.978	94.482	0.00	0.00	0.00
39	0.00	0.01	0.00	94.784	65.983	94.485	0.00	0.00	0.24
40	0.00	0.12	0.00	94.785	66.105	94.485	0.00	0.00	0.03
41	0.00	0.79	0.00	94.787	66.898	94.485	0.00	0.00	0.01
42	0.00	3.28	0.00	94.788	70.179	94.486	0.00	0.00	0.05
43	0.00	0.58	0.00	94.789	70.760	94.487	0.00	0.00	0.17
44	0.00	0.28	0.00	94.789	71.041	94.487	0.00	0.00	0.00
45	0.00	0.00	0.00	94.790	71.041	94.487	0.00	0.00	0.00
46	0.00	0.00	0.00	94.790	71.041	94.488	0.00	0.00	0.00
47	0.01	0.00	0.00	94.796	71.044	94.489	0.00	0.00	0.15

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	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN KN		
MODE	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
48	0.00	0.01	0.00	94.796	71.053	94.489	0.00	0.00	0.01
49	0.00	0.00	0.00	94.796	71.057	94.489	0.00	0.00	0.00
50	0.00	0.00	0.00	94.797	71.059	94.489	0.00	0.00	0.02
ZPA	0.00	0.00	5.51	0.000	0.000	100.000	0.00	0.00	304.01
						TOTAL SRSS SHEAR	0.00	0.00	2311.53
						TOTAL 10PCT SHEAR	0.00	0.00	2330.97
						TOTAL ABS SHEAR	0.00	0.00	4636.86
						TOTAL CSM SHEAR	0.00	0.00	2576.57
						TOTAL CQC SHEAR	0.00	0.00	2461.40

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*********************************************************
* UNITS - KN     METE                                   *
* TIME PERIOD FOR Z 1893 LOADING =     0.53000 SEC      *
* SA/G PER 1893=     2.500, LOAD FACTOR= 1.000          *
*       FACTOR V  PER 1893=     0.0400 X  61225.78      *
* VB Min based on Clause 7.2.2 =       673.48           *
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STORY DRIFT CHECK

STORY	HEIGHT	INTERSTORY DRIFT(CM)		RATIO		STATUS	
	(METE)	X	Z	X	Z	X	Z
BASE	0.00						
1	4.30	0.1062	0.3071	L / 4048	L / 1400	PASS	PASS
2	7.40	0.1344	0.4361	L / 2308	L / 711	PASS	PASS
3	10.50	0.1544	0.5177	L / 2009	L / 599	PASS	PASS
4	13.60	0.1508	0.5423	L / 2056	L / 572	PASS	PASS
5	16.70	0.1850	0.5503	L / 1676	L / 564	PASS	PASS
6	19.80	0.1621	0.5309	L / 1912	L / 584	PASS	PASS
7	22.90	0.1532	0.4925	L / 2024	L / 630	PASS	PASS
8	26.00	0.1560	0.4623	L / 1987	L / 671	PASS	PASS
9	29.10	0.1463	0.3950	L / 2120	L / 785	PASS	PASS
10	32.20	0.1459	0.3532	L / 2125	L / 878	PASS	PASS
11	35.30	0.6519	0.3316	L / 476	L / 935	PASS	PASS

1893 RESPONSE SPECTRUM LOAD 12

RESPONSE LOAD CASE 12

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN X	Y	Z	GENERALIZED WEIGHT
1	6.199304E+01	3.532520E-02	4.056836E+04	1.627202E+04
2	2.559814E+04	3.157258E-02	2.210991E+03	9.287358E+03
3	1.887373E+04	2.079267E-03	1.942969E+03	8.267027E+03
4	2.834553E+01	6.701783E-03	5.316556E+03	9.557665E+03
5	1.413116E+03	2.998502E-02	2.259086E+03	1.158666E+04
6	7.203394E+03	1.193350E-01	2.396720E+02	8.936290E+03
7	8.109092E+00	3.035508E+02	2.673013E-03	5.992606E+01
8	9.594906E+01	7.387171E-01	1.254950E+03	8.383135E+03
9	5.381903E+02	5.968909E-02	1.814322E+03	8.282257E+03
10	2.507958E+03	1.705946E-01	1.382883E+02	7.491106E+03
11	3.737948E-02	3.350933E+03	5.503864E-01	3.089334E+02
12	1.076430E+00	4.369209E+02	1.439597E+01	3.764686E+02

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13	6.726636E-02	6.222243E+01	1.108140E+01	2.658998E+02
14	7.745718E-04	9.094298E+03	7.929344E+00	3.429756E+02
15	9.143322E+01	1.199298E+02	4.784315E+02	5.217684E+03
16	1.001958E+01	7.122043E+02	2.766931E-02	1.586850E+02
17	7.459935E-01	1.019903E+04	2.158825E+00	5.478036E+02
18	1.108382E+00	3.585770E+03	6.021136E-02	4.642968E+02
19	7.192907E+00	7.646762E+02	1.741946E+01	7.114969E+02
20	5.696130E-02	2.818636E+01	8.613258E-02	2.349121E+02
21	6.053865E-01	4.208130E+01	2.740454E-01	2.307283E+02
22	2.541639E+02	7.519434E+02	5.979327E+02	2.104829E+03
23	1.524448E+02	5.211903E+02	3.347721E+02	7.530527E+02
24	2.706557E+00	1.412628E+02	2.009143E+00	1.532796E+02
25	6.213706E-01	1.843412E+03	1.610822E+01	9.044584E+02
26	6.843920E+01	1.653161E+03	4.429553E+01	3.204156E+02
27	1.032643E+02	1.448856E+03	1.151470E+01	4.303895E+02
28	7.379268E+02	1.823670E+03	6.583748E+01	8.322565E+03
29	1.408379E+01	2.148679E+03	2.307256E+00	3.000100E+02
30	1.019248E+01	3.599259E+02	1.620098E+00	9.096634E+02
31	4.621713E+00	6.541633E+00	4.342010E+01	2.732399E+02
32	5.331634E-01	1.635129E+00	1.913953E+00	2.001261E+02
33	1.086085E+01	1.429309E+02	4.656783E+01	2.051489E+02
34	9.437127E+01	6.232625E+00	2.437689E+02	1.022309E+03
35	1.199957E-03	9.116919E-01	7.917321E-01	2.895967E+02
36	3.551564E+00	3.222578E+02	2.721065E+01	4.198006E+02
37	1.001242E+01	3.428417E+01	8.646351E+00	4.890992E+02
38	9.301210E-02	4.023608E+02	1.887419E-02	2.520843E+02
39	7.491983E-01	3.213486E+00	1.546232E+00	7.704098E+02
40	7.116638E-01	7.489764E+01	2.044485E-01	2.669022E+02
41	1.217268E+00	4.842073E+02	7.664999E-02	3.368254E+02
42	7.344379E-01	2.004866E+03	3.460133E-01	3.537266E+03
43	5.548587E-01	3.544668E+02	1.125711E+00	2.280309E+03
44	8.823128E-03	1.716151E+02	3.063632E-02	6.854560E+02
45	3.683870E-01	1.617273E-02	4.557333E-05	4.904215E+02
46	7.562735E-02	2.813336E-01	3.253459E-03	3.469349E+02
47	4.050751E+00	1.584730E+00	9.557342E-01	2.577739E+02
48	3.896262E-02	5.982705E+00	8.361364E-02	4.639641E+02
49	2.379424E-04	2.486121E+00	4.741061E-05	1.190567E+03
50	1.680585E-02	8.909123E-01	1.045978E-01	1.238059E+03

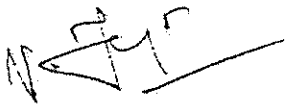
CQC MODAL COMBINATION METHOD USED.
MISSING MASS METHOD USED.

DYNAMIC WEIGHT X Y Z	6.109682E+04	6.109681E+04	6.109681E+04	KN
MISSING WEIGHT X Y Z	-3.179133E+03	-1.768205E+04	-3.366785E+03	KN
MODAL WEIGHT X Y Z	5.791769E+04	4.341476E+04	5.773002E+04	KN

RESPONSE LOAD CASE 12

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	0.82137	0.0000	0.0000	-0.0510
2	0.94403	0.0000	0.0000	-0.0586
3	0.96054	0.0000	0.0000	-0.0596
4	2.50000	0.0000	0.0000	-0.1552
5	2.50000	0.0000	0.0000	-0.1552
6	2.50000	0.0000	0.0000	-0.1552
7	2.50000	0.0000	0.0000	-0.1552
8	2.50000	0.0000	0.0000	-0.1552
9	2.50000	0.0000	0.0000	-0.1552
10	2.50000	0.0000	0.0000	-0.1552
11	2.50000	0.0000	0.0000	-0.1552
12	2.50000	0.0000	0.0000	-0.1552
13	2.50000	0.0000	0.0000	-0.1552
14	2.50000	0.0000	0.0000	-0.1552
15	2.50000	0.0000	0.0000	-0.1552
16	2.50000	0.0000	0.0000	-0.1552
17	2.50000	0.0000	0.0000	-0.1552
18	2.50000	0.0000	0.0000	-0.1552
19	2.50000	0.0000	0.0000	-0.1552
20	2.50000	0.0000	0.0000	-0.1552
21	2.50000	0.0000	0.0000	-0.1552
22	2.50000	0.0000	0.0000	-0.1552
23	2.50000	0.0000	0.0000	-0.1552
24	2.50000	0.0000	0.0000	-0.1552
25	2.50000	0.0000	0.0000	-0.1552
26	2.50000	0.0000	0.0000	-0.1552
27	2.50000	0.0000	0.0000	-0.1552
28	2.50000	0.0000	0.0000	-0.1552
29	2.50000	0.0000	0.0000	-0.1552
30	2.50000	0.0000	0.0000	-0.1552
31	2.50000	0.0000	0.0000	-0.1552
32	2.50000	0.0000	0.0000	-0.1552
33	2.50000	0.0000	0.0000	-0.1552
34	2.50000	0.0000	0.0000	-0.1552
35	2.50000	0.0000	0.0000	-0.1552
36	2.50000	0.0000	0.0000	-0.1552
37	2.50000	0.0000	0.0000	-0.1552
38	2.50000	0.0000	0.0000	-0.1552
39	2.50000	0.0000	0.0000	-0.1552
40	2.50000	0.0000	0.0000	-0.1552
41	2.50000	0.0000	0.0000	-0.1552
42	2.50000	0.0000	0.0000	-0.1552
43	2.50000	0.0000	0.0000	-0.1552
44	2.50000	0.0000	0.0000	-0.1552
45	2.50000	0.0000	0.0000	-0.1552
46	2.50000	0.0000	0.0000	-0.1552
47	2.50000	0.0000	0.0000	-0.1552
48	2.49662	0.0000	0.0000	-0.1550
49	2.47226	0.0000	0.0000	-0.1535
50	2.45750	0.0000	0.0000	-0.1526



V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841202588

STAAD SPACE -- PAGE NO. 129

PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
11	35.30	0.00	0.00	183.18
10	32.20	0.00	0.00	672.53
9	29.10	0.00	0.00	1053.13
8	26.00	0.00	0.00	1314.36
7	22.90	0.00	0.00	1518.63
6	19.80	0.00	0.00	1674.96
5	16.70	0.00	0.00	1832.17
4	13.60	0.00	0.00	2013.20
3	10.50	0.00	0.00	2187.90
2	7.40	0.00	0.00	2344.05
1	4.30	0.00	0.00	2437.40
BASE	0.00	0.00	0.00	2442.55

MODE	ACCELERATION-G	DAMPING
1	3.18692	0.05000
2	3.66285	0.05000
3	3.72689	0.05000
4	9.70000	0.05000
5	9.70000	0.05000
6	9.70000	0.05000
7	9.70000	0.05000
8	9.70000	0.05000
9	9.70000	0.05000
10	9.70000	0.05000
11	9.70000	0.05000
12	9.70000	0.05000
13	9.70000	0.05000
14	9.70000	0.05000
15	9.70000	0.05000
16	9.70000	0.05000
17	9.70000	0.05000
18	9.70000	0.05000
19	9.70000	0.05000
20	9.70000	0.05000
21	9.70000	0.05000
22	9.70000	0.05000
23	9.70000	0.05000
24	9.70000	0.05000
25	9.70000	0.05000
26	9.70000	0.05000
27	9.70000	0.05000
28	9.70000	0.05000
29	9.70000	0.05000

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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

MODE	ACCELERATION-G	DAMPING
30	9.70000	0.05000
31	9.70000	0.05000
32	9.70000	0.05000
33	9.70000	0.05000
34	9.70000	0.05000
35	9.70000	0.05000
36	9.70000	0.05000
37	9.70000	0.05000
38	9.70000	0.05000
39	9.70000	0.05000
40	9.70000	0.05000
41	9.70000	0.05000
42	9.70000	0.05000
43	9.70000	0.05000
44	9.70000	0.05000
45	9.70000	0.05000
46	9.70000	0.05000
47	9.70000	0.05000
48	9.68690	0.05000
49	9.59237	0.05000
50	9.53510	0.05000

PEAK STORY SHEAR MIS

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN INCLUDING MISSING MASS CORRECTION		
		X	Y	Z
11	35.30	0.00	0.00	183.91
10	32.20	0.00	0.00	672.82
9	29.10	0.00	0.00	1053.20
8	26.00	0.00	0.00	1314.91
7	22.90	0.00	0.00	1510.86
6	19.80	0.00	0.00	1675.11
5	16.70	0.00	0.00	1833.04
4	13.60	0.00	0.00	2013.32
3	10.50	0.00	0.00	2188.90
2	7.40	0.00	0.00	2345.83
1	4.30	0.00	0.00	2440.36
BASE	0.00	0.00	0.00	2461.40
ZPA		5.64364		
ZPAFREQ		33.00000		



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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
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Mobile: 9841269154

MODAL BASE ACTIONS

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.656	80.86	-1.93	-2068.61	-48535.26	13763.23	-1573.96
2	1.441	-440.90	-0.49	-129.58	-3169.49	-5357.60	10242.70
3	1.416	361.10	-0.12	-115.86	-2813.90	5877.32	-8713.17
4	0.491	60.25	-0.93	-825.13	-436.95	5741.75	946.30
5	0.434	-277.30	1.28	-350.61	-435.59	-1693.38	-199.13
6	0.409	203.92	-0.83	-37.20	-43.70	2967.30	-420.95
7	0.324	-0.02	-0.14	-0.00	3.23	-0.30	-1.45
8	0.255	53.85	4.73	-194.77	-1126.39	1964.71	-385.97
9	0.217	-153.36	1.62	-281.58	-1782.12	-409.17	836.77
10	0.199	91.40	-0.75	-21.46	-110.76	1540.16	-443.10
11	0.186	-0.02	-6.67	-0.09	154.57	0.22	-52.58
12	0.177	-0.61	-12.31	-2.23	273.36	4.93	-91.48
13	0.172	-0.13	4.08	-1.72	-85.05	8.39	33.18
14	0.170	0.01	41.68	-1.23	-224.18	7.83	266.44
15	0.163	32.46	-37.18	-74.25	413.33	866.49	-88.63
16	0.159	0.08	0.69	-0.00	-16.45	1.11	4.46
17	0.146	-0.20	23.03	-0.34	-172.75	-1.08	96.48
18	0.145	0.04	-2.28	-0.01	56.06	0.60	-4.01
19	0.140	-1.74	-17.91	-2.70	-4.43	-9.25	-412.33
20	0.139	0.01	-0.24	-0.01	5.78	0.22	-0.67
21	0.137	0.06	-0.53	-0.04	12.74	1.21	-2.15
22	0.132	-60.50	104.07	-92.80	-2387.72	-267.45	351.25
23	0.131	-35.06	-64.83	-51.96	1385.33	-164.05	52.61
24	0.129	0.36	-2.61	-0.31	43.06	6.49	-7.52
25	0.128	-0.49	-26.74	-2.50	559.82	8.18	-131.66
26	0.125	8.55	-42.00	-6.87	602.64	151.08	-83.07
27	0.124	5.35	-20.05	-1.79	299.52	80.00	-69.55
28	0.123	34.00	53.45	-10.09	-949.10	501.07	195.01
29	0.121	0.88	-10.93	-0.36	248.67	13.47	-128.41
30	0.120	0.63	3.75	-0.25	-36.16	9.51	-12.74
31	0.116	2.20	-2.62	-6.74	-41.62	66.62	-3.18
32	0.116	0.16	-0.27	-0.30	4.59	3.80	1.59
33	0.116	3.49	12.66	-7.23	-352.74	83.85	112.21
34	0.115	23.54	-6.05	-37.83	-34.38	522.92	-231.49
35	0.114	0.00	0.13	-0.12	-16.65	0.70	-7.15
36	0.114	1.53	14.53	-4.22	-163.52	43.89	162.72
37	0.113	1.44	-2.67	-1.34	146.38	26.21	61.13
38	0.112	-0.01	0.43	-0.00	-10.47	-0.07	4.23
39	0.110	0.17	0.35	-0.24	5.80	3.61	-0.98
40	0.109	-0.06	0.61	-0.03	-25.52	-0.56	-1.63
41	0.108	0.05	-0.95	-0.01	19.69	0.65	-11.85
42	0.106	0.08	-4.09	-0.05	45.28	1.24	-35.34
43	0.103	-0.12	3.10	-0.17	-8.90	-0.68	45.15
44	0.102	-0.00	0.36	-0.00	-6.30	-0.04	-0.85
45	0.102	0.00	-0.00	-0.00	-0.03	0.01	-0.18
46	0.101	-0.00	-0.00	-0.00	0.19	-0.03	0.92
47	0.100	0.31	-0.19	-0.15	3.54	5.51	-7.77

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: [illegible]

STAAD SPACE -- PAGE NO. 132

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
48	0.100	-0.01	-0.11	-0.01	3.52	0.01	-3.60
49	0.098	-0.00	-0.00	-0.00	0.02	-0.00	-0.02
50	0.097	-0.01	0.05	-0.02	2.37	0.00	-0.74

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Mobile: 9841269154

PARTICIPATION FACTORS

	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN KN		
MODE	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	0.10	0.00	66.40	0.101	0.000	66.400	0.00	0.00	-2068.61
2	41.90	0.00	3.62	41.999	0.000	70.019	0.00	0.00	-129.58
3	30.89	0.00	3.18	72.891	0.000	73.199	0.00	0.00	-115.86
4	0.05	0.00	8.70	72.937	0.000	81.901	0.00	0.00	-825.13
5	2.31	0.00	3.70	75.250	0.000	85.598	0.00	0.00	-350.61
6	11.79	0.00	0.39	87.040	0.000	85.991	0.00	0.00	-37.20
7	0.01	0.50	0.00	87.053	0.497	85.991	0.00	0.00	-0.00
8	0.16	0.00	2.05	87.210	0.498	88.045	0.00	0.00	-194.77
9	0.88	0.00	2.97	88.091	0.499	91.014	0.00	0.00	-281.58
10	4.10	0.00	0.23	92.196	0.499	91.241	0.00	0.00	-21.46
11	0.00	5.48	0.00	92.196	5.983	91.242	0.00	0.00	-0.09
12	0.00	0.72	0.02	92.198	6.699	91.265	0.00	0.00	-2.23
13	0.00	0.10	0.02	92.198	6.800	91.283	0.00	0.00	-1.72
14	0.00	14.89	0.01	92.198	21.685	91.296	0.00	0.00	-1.23
15	0.15	0.20	0.78	92.348	21.882	92.079	0.00	0.00	-74.25
16	0.02	1.17	0.00	92.364	23.047	92.079	0.00	0.00	-0.00
17	0.00	16.69	0.00	92.365	39.741	92.083	0.00	0.00	-0.34
18	0.00	5.87	0.00	92.367	45.610	92.083	0.00	0.00	-0.01
19	0.01	1.25	0.03	92.379	46.861	92.112	0.00	0.00	-2.70
20	0.00	0.05	0.00	92.379	46.907	92.112	0.00	0.00	-0.01
21	0.00	0.07	0.00	92.380	46.976	92.112	0.00	0.00	-0.04
22	0.42	1.23	0.98	92.796	48.207	93.091	0.00	0.00	-92.80
23	0.25	0.85	0.55	93.046	49.060	93.639	0.00	0.00	-51.96
24	0.00	0.23	0.00	93.050	49.291	93.642	0.00	0.00	-0.31
25	0.00	3.02	0.03	93.051	52.308	93.668	0.00	0.00	-2.50
26	0.11	2.71	0.07	93.163	55.014	93.741	0.00	0.00	-6.87
27	0.17	2.37	0.02	93.332	57.386	93.760	0.00	0.00	-1.79
28	1.21	2.98	0.11	94.540	60.371	93.866	0.00	0.00	-10.09
29	0.02	3.52	0.00	94.563	63.887	93.870	0.00	0.00	-0.36
30	0.02	0.59	0.00	94.580	64.476	93.873	0.00	0.00	-0.25
31	0.01	0.01	0.07	94.587	64.487	93.944	0.00	0.00	-6.74
32	0.00	0.00	0.00	94.588	64.490	93.947	0.00	0.00	-0.30
33	0.02	0.23	0.08	94.606	64.724	94.023	0.00	0.00	-7.23
34	0.15	0.01	0.40	94.760	64.734	94.422	0.00	0.00	-37.83
35	0.00	0.00	0.00	94.760	64.736	94.423	0.00	0.00	-0.12
36	0.01	0.53	0.04	94.766	65.263	94.468	0.00	0.00	-4.22
37	0.02	0.06	0.01	94.782	65.319	94.482	0.00	0.00	-1.34
38	0.00	0.66	0.00	94.783	65.978	94.482	0.00	0.00	-0.00
39	0.00	0.01	0.00	94.784	65.983	94.485	0.00	0.00	-0.24
40	0.00	0.12	0.00	94.785	66.105	94.485	0.00	0.00	-0.03
41	0.00	0.79	0.00	94.787	66.898	94.485	0.00	0.00	-0.01
42	0.00	3.28	0.00	94.788	70.179	94.486	0.00	0.00	-0.05
43	0.00	0.58	0.00	94.789	70.760	94.487	0.00	0.00	-0.17
44	0.00	0.28	0.00	94.789	71.041	94.487	0.00	0.00	-0.00
45	0.00	0.00	0.00	94.790	71.041	94.487	0.00	0.00	-0.00
46	0.00	0.00	0.00	94.790	71.041	94.488	0.00	0.00	-0.00
47	0.01	0.00	0.00	94.796	71.044	94.489	0.00	0.00	-0.15

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Mobile: 9841269154

STAAD SPACE -- PAGE NO. 134

MODE	MASS PARTICIPATION FACTORS IN PERCENT X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	BASE SHEAR IN KN X	Y	Z
48	0.00	0.01	0.00	94.796	71.053	94.489	0.00	0.00	-0.01
49	0.00	0.00	0.00	94.796	71.057	94.489	0.00	0.00	-0.00
50	0.00	0.00	0.00	94.797	71.059	94.489	0.00	0.00	-0.02
ZPA	0.00	0.00	5.51	0.000	0.000	100.000	0.00	0.00	-304.01
					TOTAL SRSS SHEAR		0.00	0.00	-2311.53
					TOTAL 10PCT SHEAR		0.00	0.00	-2330.97
					TOTAL ABS SHEAR		0.00	0.00	-4636.86
					TOTAL CSM SHEAR		0.00	0.00	-2576.57
					TOTAL CQC SHEAR		0.00	0.00	-2461.40

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Mobile: 9841269154

STAAD SPACE -- PAGE NO. 135

STORY DRIFT CHECK

STORY	HEIGHT	INTERSTORY DRIFT(CM)		RATIO		STATUS	
	(METE)	X	Z	X	Z	X	Z
BASE	0.00						
1	4.30	0.1062	0.3071	L / 4048	L / 1400	PASS	PASS
2	7.40	0.1344	0.4361	L / 2308	L / 711	PASS	PASS
3	10.50	0.1544	0.5177	L / 2009	L / 599	PASS	PASS
4	13.60	0.1508	0.5423	L / 2056	L / 572	PASS	PASS
5	16.70	0.1850	0.5503	L / 1676	L / 564	PASS	PASS
6	19.80	0.1621	0.5309	L / 1912	L / 584	PASS	PASS
7	22.90	0.1532	0.4925	L / 2024	L / 630	PASS	PASS
8	26.00	0.1560	0.4623	L / 1987	L / 671	PASS	PASS
9	29.10	0.1463	0.3950	L / 2120	L / 785	PASS	PASS
10	32.20	0.1459	0.3532	L / 2125	L / 878	PASS	PASS
11	35.30	0.6519	0.3316	L / 476	L / 935	PASS	PASS

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5104. DEFINE ENVELOPE
5105. 3 17 TO 32 ENVELOPE 1 TYPE SERVICEABILITY
5106. 4 33 TO 56 ENVELOPE 2 TYPE STRENGTH
5107. END DEFINE ENVELOPE
5108. PRINT DIA CR
DIA      CR
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V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 984[illegible]

****

CENTRE OF RIGIDITY UNIT - METE

DIAPHRAM	FL. LEVEL	X-COORDINATE	Z-COORDINATE
1	4.300	7.885	15.092
2	7.400	7.788	15.289
3	10.500	7.644	15.217
4	13.600	7.509	15.068
5	16.700	7.384	14.901
6	19.800	7.271	14.713
7	22.900	7.170	14.515
8	26.000	7.084	14.321
9	29.100	7.011	14.128
10	32.200	6.954	13.947
11	35.300	7.232	14.283

****

5109. PRINT STORY STIFFNESS
STORY STIFFNES

****

STORY STIFFNESS UNIT - METE KN

DIAPHRAM	FL. LEVEL	LATERAL-X	LATERAL-Z	ROTATIONAL-Y
1	4.300	1.811E+06	1.705E+06	5.482E+07
2	7.400	1.298E+06	1.042E+06	8.019E+07
3	10.500	9.819E+05	7.434E+05	6.738E+07
4	13.600	8.347E+05	6.140E+05	6.082E+07
5	16.700	6.791E+05	5.330E+05	5.663E+07
6	19.800	6.539E+05	4.846E+05	5.285E+07
7	22.900	5.708E+05	4.516E+05	4.972E+07
8	26.000	5.044E+05	4.109E+05	4.686E+07
9	29.100	4.563E+05	3.756E+05	4.344E+07
10	32.200	3.780E+05	3.121E+05	3.770E+07
11	35.300	1.478E+05	2.044E+05	1.382E+07

****

5110. FINISH

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841283154

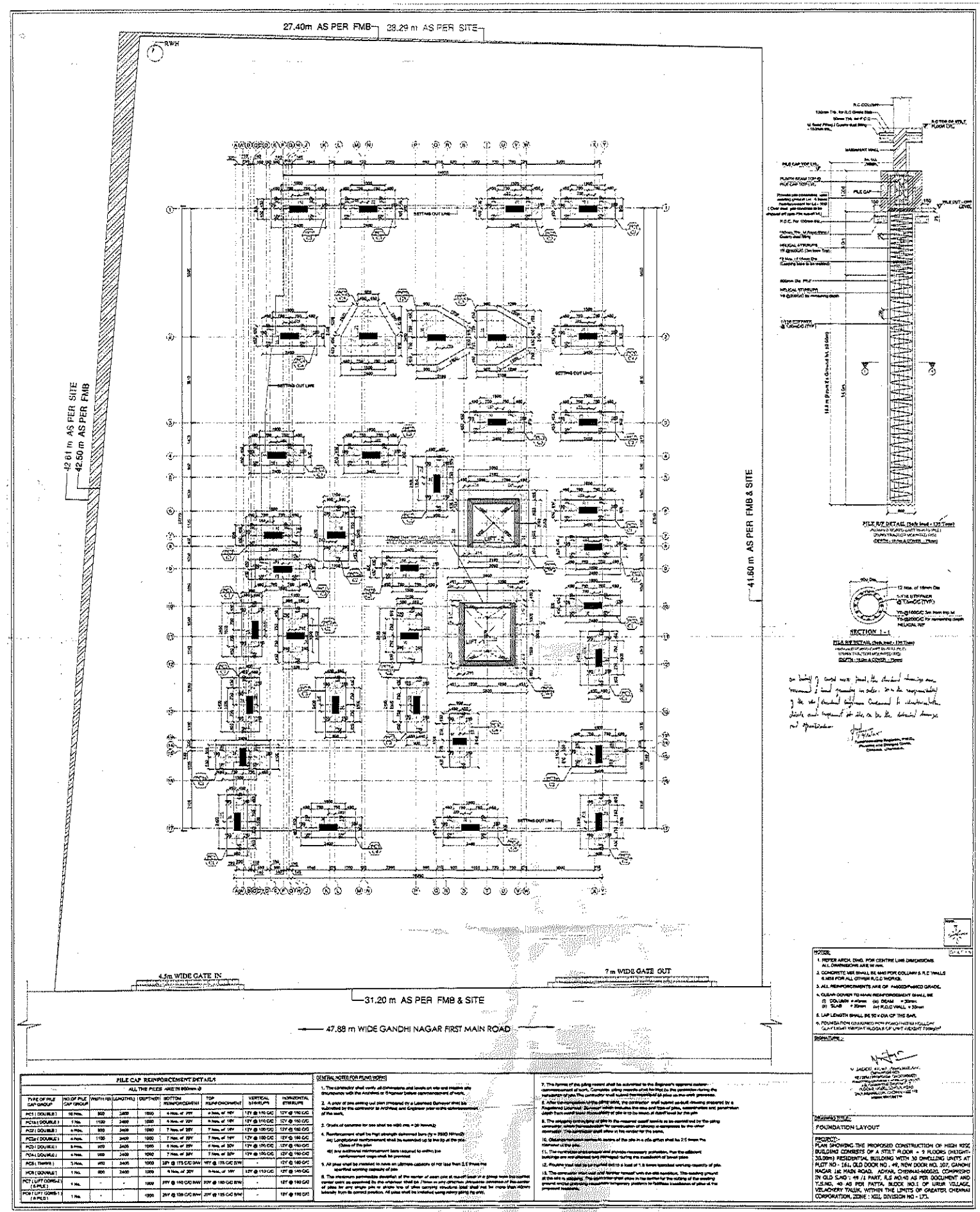
V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

********** END OF THE STAAD.Pro RUN **********

**** DATE= SEP 16,2025 TIME= 16:21:32 ****

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* For technical assistance on STAAD.Pro, please visit *
* http://www.bentley.com/en/support/ *
* *
* Details about additional assistance from *
* Bentley and Partners can be found at program menu *
* Help->Technical Support *
* *
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****

V. JAGEN, B.E.,M.E., (Struct), M.I.E.,A.I.V.,
CMDA REGN NOS-
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, [illegible]19.
Mobile [illegible]



PILE CAP REINFORCEMENT DETAILS

ALL THE PILES ARE IN 800mm Ø

TYPE OF PILE CAP GROUP	NO OF PILE CAP GROUP	WIDTH (B)	LENGTH (L)	DEPTH (D)	BOTTOM REINFORCEMENT	TOP REINFORCEMENT	VERTICAL STIRRUPS	HORIZONTAL STIRRUPS
PC1 (DOUBLE)	10 Nos.	950	2400	1000	4 Nos. of 20Y	4 Nos. of 16Y	12Y @ 110 C/C	12Y @ 150 C/C
PC1A (DOUBLE)	1 No.	1100	2400	1000	5 Nos. of 20Y	5 Nos. of 16Y	12Y @ 110 C/C	12Y @ 150 C/C
PC2 (DOUBLE)	4 Nos.	950	2400	1000	7 Nos. of 20Y	7 Nos. of 16Y	12Y @ 100 C/C	12Y @ 150 C/C
PC2A (DOUBLE)	4 Nos.	1100	2400	1000	7 Nos. of 20Y	7 Nos. of 16Y	12Y @ 100 C/C	12Y @ 150 C/C
PC3 (DOUBLE)	5 Nos.	950	2400	1000	6 Nos. of 20Y	6 Nos. of 20Y	12Y @ 110 C/C	12Y @ 150 C/C
PC3A (DOUBLE)	4 Nos.	950	2400	1000	7 Nos. of 20Y	7 Nos. of 20Y	12Y @ 100 C/C	12Y @ 150 C/C
PC5 (TRIPLE)	3 Nos.	950	3400	1000	9Y @ 175 C/C DAY	16Y @ 175 C/C DAY	-	12Y @ 150 C/C
PC6 (DOUBLE)	1 No.	800	2400	1000	4 Nos. of 20Y	4 Nos. of 16Y	12Y @ 110 C/C	12Y @ 150 C/C
PC7 (LIFT CORE-2 (6 PILE)	1 No.	-	-	1000	25Y @ 150 C/C DAY	20Y @ 150 C/C DAY	-	12Y @ 150 C/C
PC8 (LIFT CORE-1 (6 PILE)	1 No.	-	-	1000	25Y @ 150 C/C DAY	20Y @ 125 C/C DAY	-	12Y @ 150 C/C

GENERAL NOTES FOR PILING WORKS

1. The contractor shall verify all dimensions and levels on site and reports any discrepancy with the Architect or Engineer before commencement of work.
2. A copy of pile setting out plan prepared by a Licensed Surveyor shall be submitted by the contractor to Architect and Engineer prior to the commencement of the work.
3. Grade of concrete for pile shall be M30 mix = 30 N/mm2
4. Reinforcement shall be High strength deformed bars (fy = 500 N/mm2)
   (a) Longitudinal reinforcement shall be extended up to the top of the pile. (Dowel of the pile)
   (b) Any additional reinforcement bars required to widen the reinforcement cage shall be provided.
5. All piles shall be installed to have an ultimate capacity of not less than 2.5 times the specified working capacity of pile.
6. The maximum permissible deviation of the center of each pile at cut-off level or piling mats from specified center axis as ascertained by the engineer shall be 75mm in any direction. Deviation of the number of piles for any single pile or group line of piles carrying structural load shall not be more than 40mm laterally from its correct position. All piles shall be installed using rotary piling rig only.
7. The forms of the piling record shall be submitted to the Engineer's approval before commencement of work. Complete piling records shall be kept by the construction during the installation of pile. The contractor shall submit the completed set of piles as the work progresses.
8. After the completion of the piling work, the contractor shall submit as-built drawing prepared by a Registered Licensed Surveyor which indicates the size and type of piles, eccentricities and penetration depth from ground level. Provide safety of pile to be taken at cutoff level for the pile.
9. The weighing and lifting of pile in the required cutoff levels is to be carried out by the piling contractor. Unless otherwise responsible for construction of bracing or compression by the other contractor. The contractor shall allow in his tender for the same.
10. Obstructions encountered in boring of the pile in a pile either shall be 2.5 times the diameter of the pile.
11. The contractor shall ensure and provide necessary protection, that the adjacent buildings are not affected and damaged during the installation of bored piles.
12. Routine load test to be carried out to a load of 1.5 times specified working capacity of pile.
13. The contractor shall visit and familiar himself with the site condition. The existing ground at the site is sloping. The contractor shall allow in his tender for the cutting of the existing ground and/or providing necessary temporary platform to facilitate installation of piles at the proposed locations.

NOTES:

1. PROPER ARCH, DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE in mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & R.C WALLS & M35 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF FABRICATED GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   (i) COLUMN = 40mm (ii) BEAM = 30mm
   (iii) SLAB = 20mm (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
6. FOUNDATION RESTING ON HARD STRATA YIELDING SAFE BEARING PRESSURE OF UNIT WEIGHT TONS/SQ.M

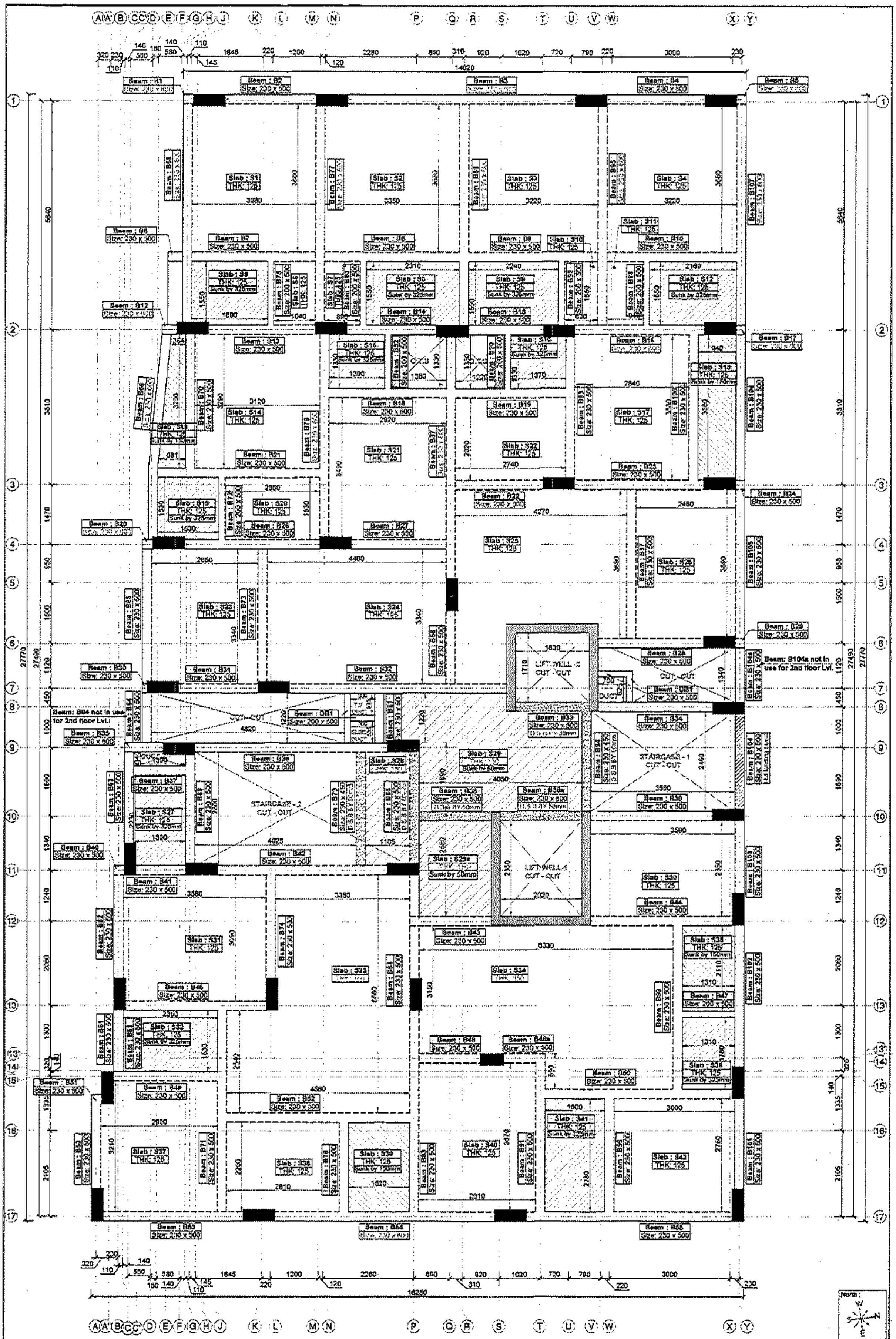
SIGNATURE :-

DRAWING TITLE:-

FOUNDATION LAYOUT

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT-30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 16A, OLD DOOR NO - 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.



NOTES:

STILT + 9

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS, ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M35 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF Fe500D/Fe550D GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   (i) COLUMN = 40mm (iii) BEAM = 30mm
   (ii) SLAB = 20mm (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
6. FOUNDATION DESIGNED FOR POROTHERM HOLLOW CLAY LIGHT WEIGHT BLOCKS OF UNIT WEIGHT 750kg/m³

SIGNATURE :-

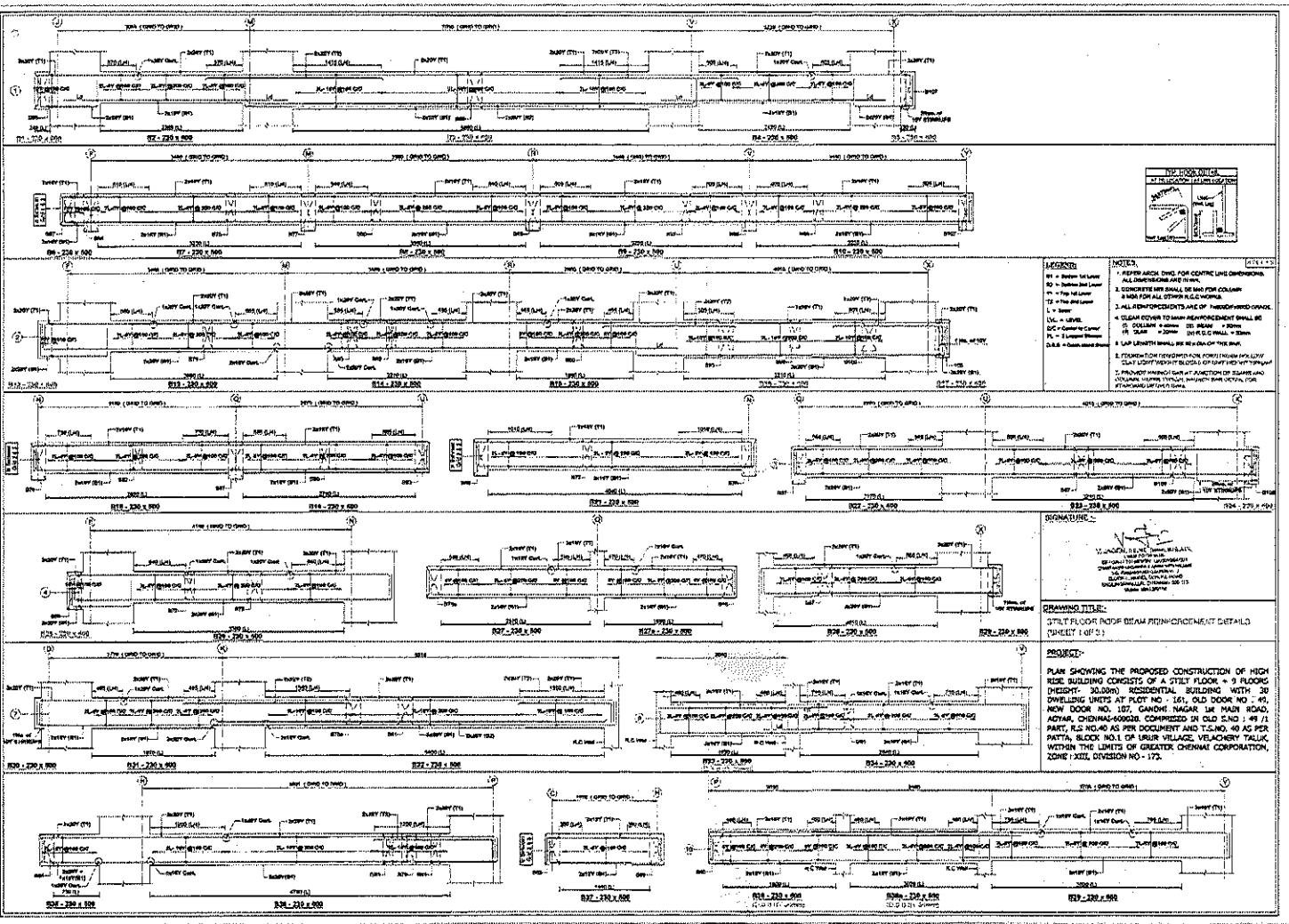
V. JAGEN, B.E., M.E. (Struct), M.I.E., A.I.V.
CMDA REGN NOS:
SE / GRN / 2010/0304, QAC/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-D, RAMANIYAM SAURAVY - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119
Mobile: [illegible]

DRAWING TITLE:-

TYPICAL FLOOR ROOF BEAM FRAMING LAYOUT
(2nd Floor Roof & 3rd Floor Roof)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT-30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO . 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.



LEGEND:

B1 = Bottom 1st Layer
B2 = Bottom 2nd Layer
T1 = Top 1st Layer
T2 = Top 2nd Layer
L = Lower
LVL = LEVEL
C/C = Centre to Centre
FL = F.L.=Lintel Bottom
D.S.S. = Open stand Stairs

NOTES:

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M30 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF THERMOMECHANICALLY TREATED FE 500 GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   - COLUMN = 40mm (IN WEAR = 20mm)
   - SLAB = 20mm (IN R.C.C WALL = 15mm)
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
6. FOUNDATION DEPENDS ON SOIL TEST REPORT.
7. PROPER HANDING OFF AT JUNCTION OF SLABS AND BEAMS WHERE THERE ARE NO BEAMS FOR STAIRCASE LANDING SLABS.

SIGNATURE :-

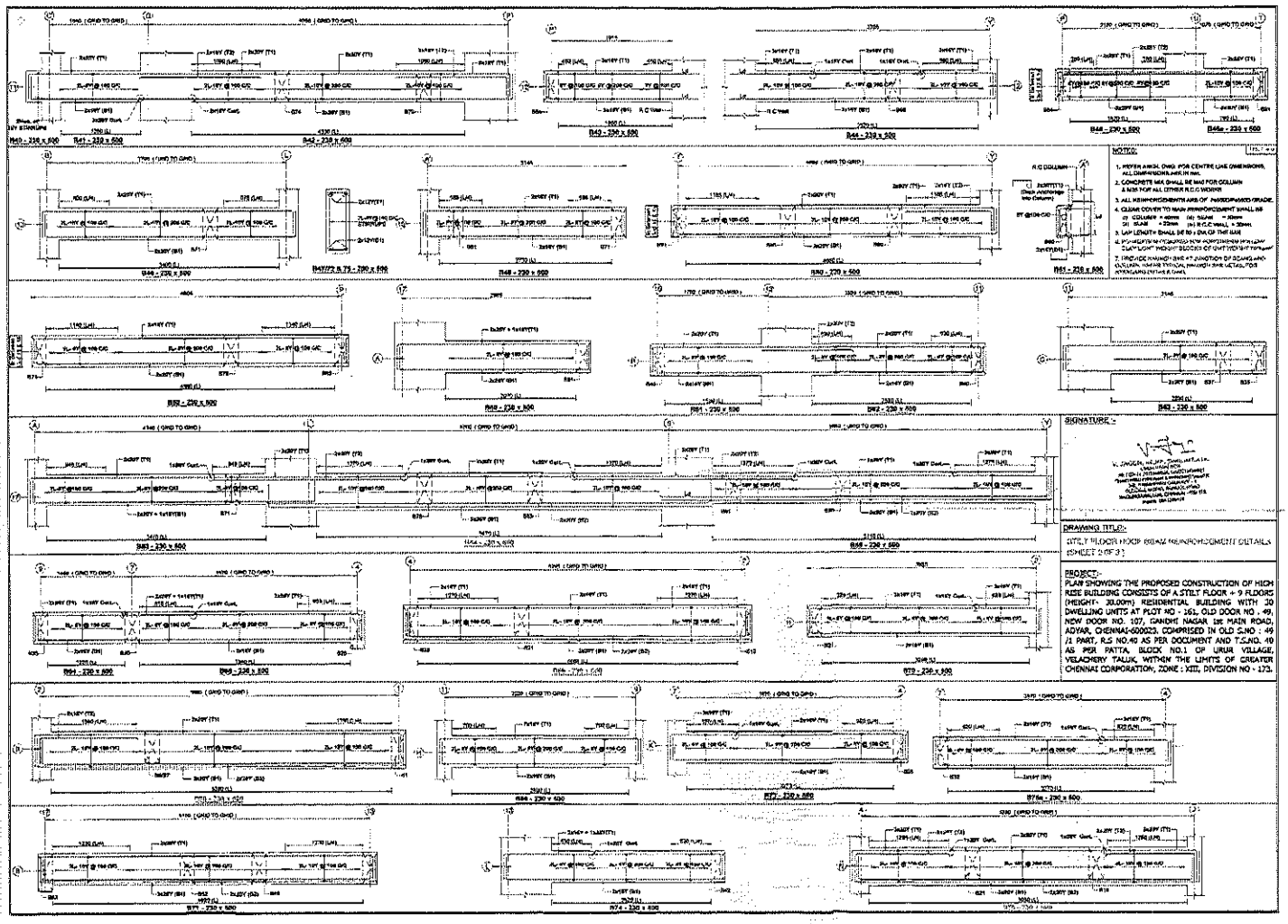
V. JAGAN, B.E.(Civil), M.I.S.E.,
Valid Upto 31.12.2020
Chennai-600 028.

DRAWING TITLE:-

STILT FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 1 OF 2)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO - 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE I XIII, DIVISION NO - 172.



NOTES:

1. REFER ARCH. DWG FOR CENTRE LINE DIMENSIONS, ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M35 FOR ALL OTHER R.C.C WORKS
3. ALL REINFORCEMENTS ARE OF Fe500D(HYSD) GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   - @ COLUMN = 40mm (M) SLAB = 20mm
   - OR SLAB = 25mm (N) R.C.C WALL = 15mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR
6. PROVISION OF OPENINGS FOR VENTILATION IN FLAT SLAB FOR LIGHT WEIGHT BLOCKS OF SIZE 1000 X 675 mm
7. PROVIDE CHAMFERING AT JUNCTION OF BEAMS AND COLUMNS, HAVING EXTERNAL EXPOSED SURFACES, FOR APPEARANCE (SIZE 25 mm).

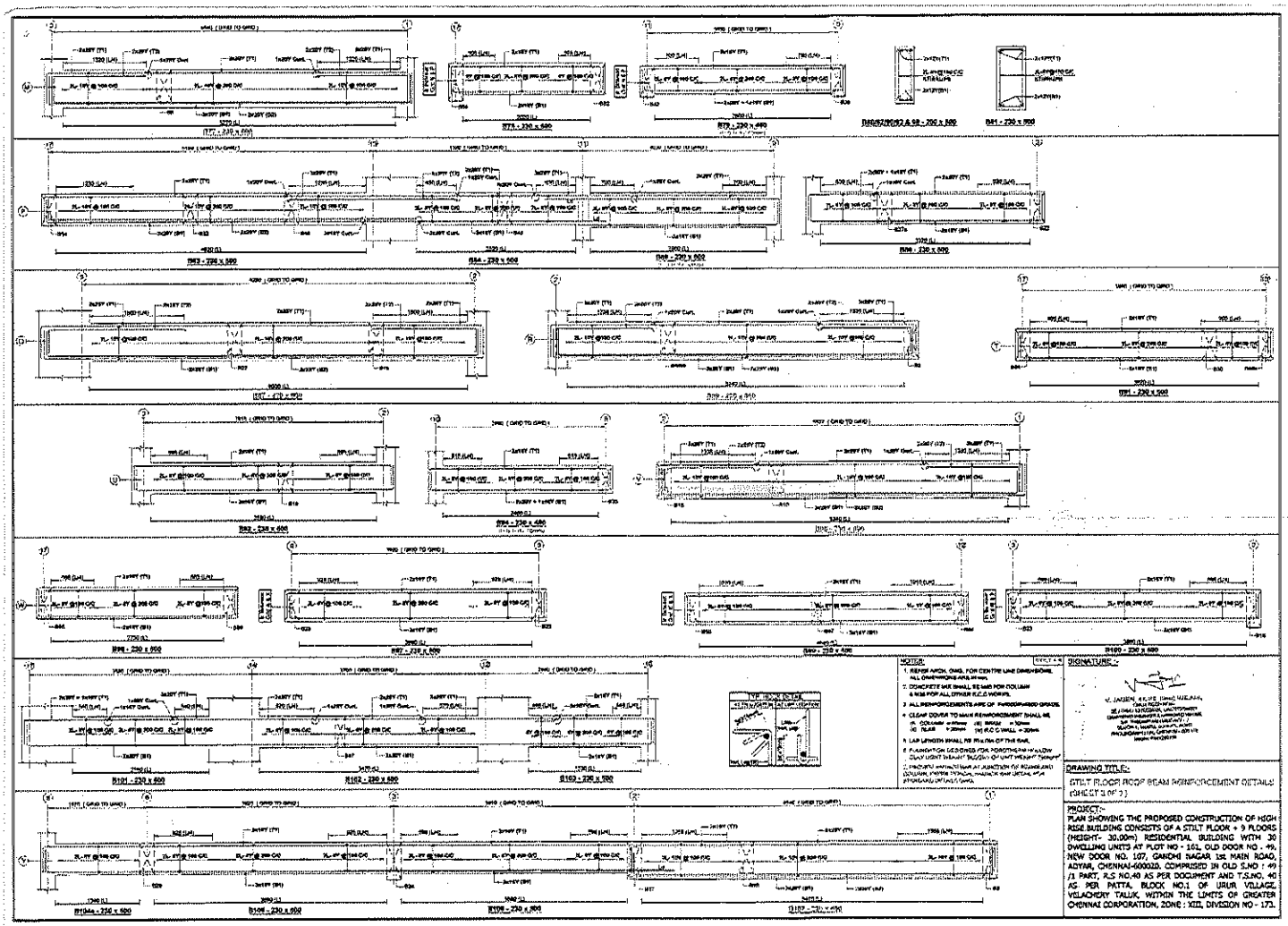
SIGNATURE :

DRAWING TITLE:-

STILT FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 2 OF 3)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO : 161, OLD DOOR NO. - 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020, COMPRISED IN OLD S.No : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.



NOTES:

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS, ALL DIMENSIONS ARE in mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M30 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF FE500D/HYSD GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   (a) COLUMN = 40mm (b) BEAM = 30mm
   (c) SLAB = 20mm (d) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 dia OF THE BAR.
6. FOUNDATION DESIGNED FOR ROBOTHE RN HALLOW STRIP LIGHT WEIGHT BLOCK OF UNIT WEIGHT 12KN/M2
7. CONCRETE MIX SHALL BE M40 FOR COLUMN, SHEAR WALL, RAFT, BEAM, SLAB, STAIRCASE, LIFT WALL, LIFT PIT, OHT, SUMP & UNDERGROUND WATER TANK.

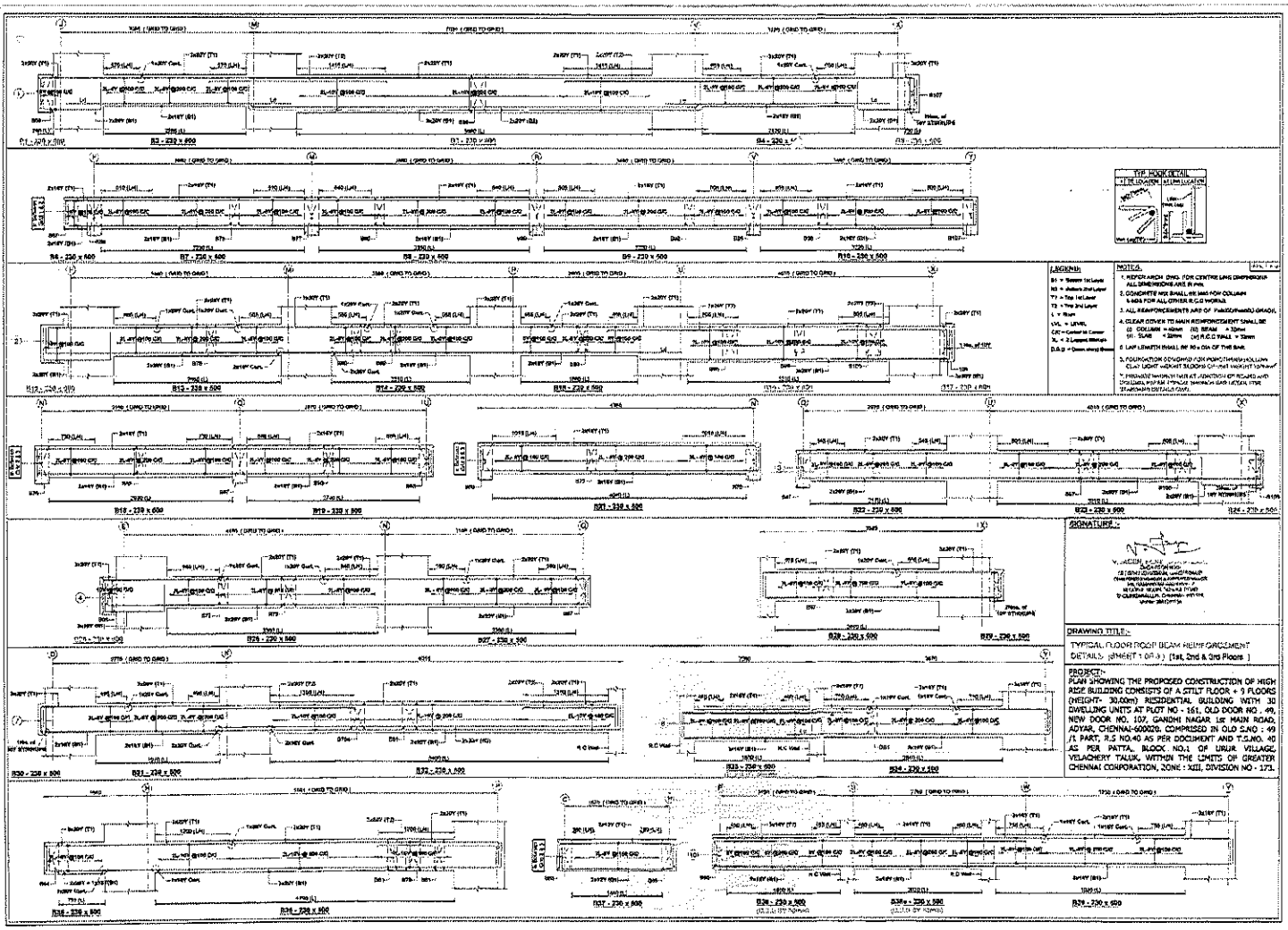
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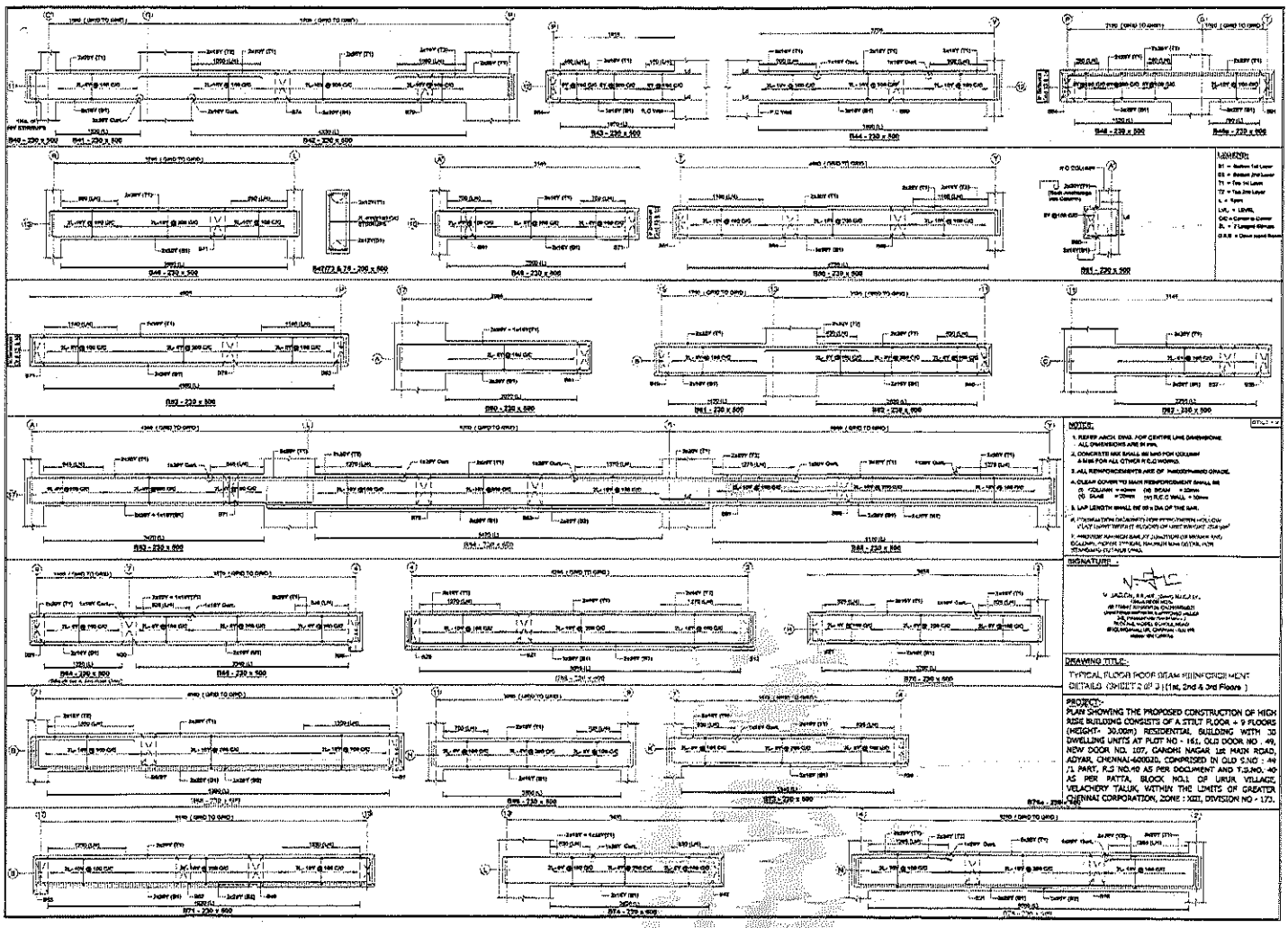
DRAWING TITLE:-

STILT FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 1 OF 2)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 103, OLD DOOR NO - 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO - 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.


B1 - 230 x 600
B2 - 230 x 600
B3 - 230 x 600
B4 - 230 x 600
B5 - 230 x 600
B6 - 230 x 600
B7 - 230 x 600
B8 - 230 x 600
B9 - 230 x 600
B10 - 230 x 600
B11 - 230 x 600
B12 - 230 x 600
B13 - 230 x 600
B14 - 230 x 600
B15 - 230 x 600
B16 - 230 x 600
B17 - 230 x 600
B18 - 230 x 600
B19 - 230 x 600
B20 - 230 x 600
B21 - 230 x 600
B22 - 230 x 600
B23 - 230 x 600
B24 - 230 x 600
B25 - 230 x 600
B26 - 230 x 600
B27 - 230 x 600
B28 - 230 x 600
B29 - 230 x 600
B30 - 230 x 600
B31 - 230 x 600
B32 - 230 x 600
B33 - 230 x 600
B34 - 230 x 600
B35 - 230 x 600
B36 - 230 x 600
B37 - 230 x 600
B38 - 230 x 600
B38a - 230 x 600
B39 - 230 x 600
TYP HOOK DETAIL
LEGEND
NOTES
SIGNATURE :
DRAWING TITLE :
TYPICAL FLOOR ROOF BEAM REINFORCEMENT DETAILS. (SHEET 1 OF 3) (1st, 2nd & 3rd Floors)
PROJECT :
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO : 49, NEW DOOR NO. 107, GANDHI NAGAR, 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 49 /1 PART, 9.5 NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 171.



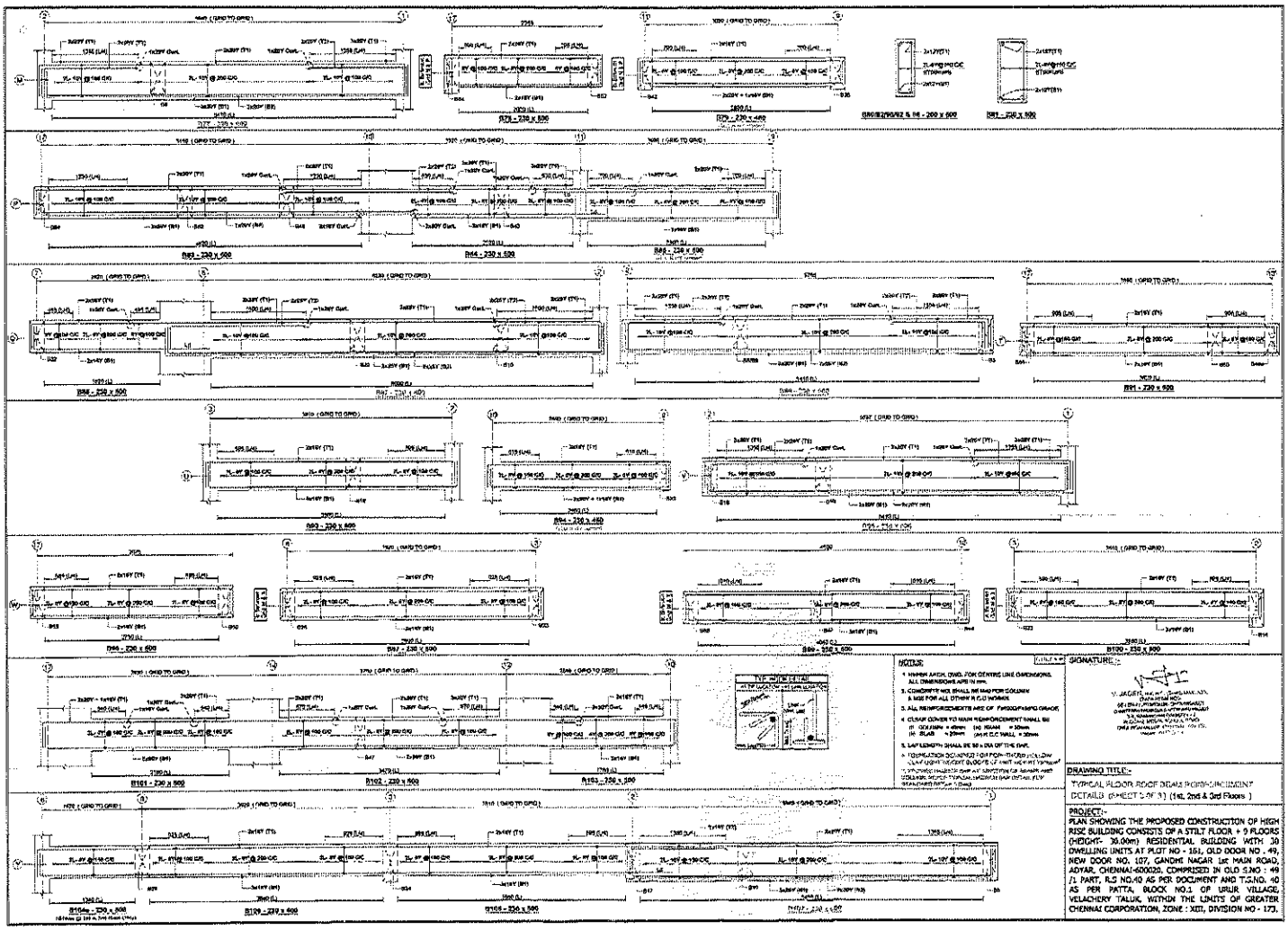
NOTES:

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
   ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN
   & M35 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF THERMOMECHANICALLY TREATED FE 500 GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   (i) COLUMN = 40mm (ii) BEAM = 25mm
   (iii) SLAB = 20mm (iv) R.C.C WALL = 10mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
6. INSTALLATION DETAILS (FOR OTHER THAN HOLLOW FLAT SLAB) TO BE AS PER MANUFACTURER'S SPECIFICATIONS.
7. PROVIDE 45 DEGREE BAR AT 45 DEGREE FOR ALL BEAMS AND COLUMNS. PROVIDE TYPICAL MINIMUM NINE DETAIL AS PER STANDARD CUT AND BEND.

SIGNATURE :

DRAWING TITLE:-
TYPICAL FLOOR BEAM REINFORCEMENT DETAILS (SHEET 2 OF 3) (1st, 2nd & 3rd Floors)

PROJECT:-
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO : 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020, COMPRISED IN OLD S.NO : 44/1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XII, DIVISION NO - 173.



NOTES:

1. WORK SHOULD NOT BE SCALED. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M30 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF FE500D/FE550 GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   (i) COLUMN = 40mm (ii) BEAM = 30mm
   (iii) SLAB = 20mm (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
6. FOUNDATION DOUBLING FOR POP-THERMOCOL LOW WEIGHT BLOCKS (7 UNIT WEIGHT TYPICAL) (OTHERWISE SINGLE TYPICAL WEIGHT 5 UNIT PER SQ.M)

SIGNATURE:-

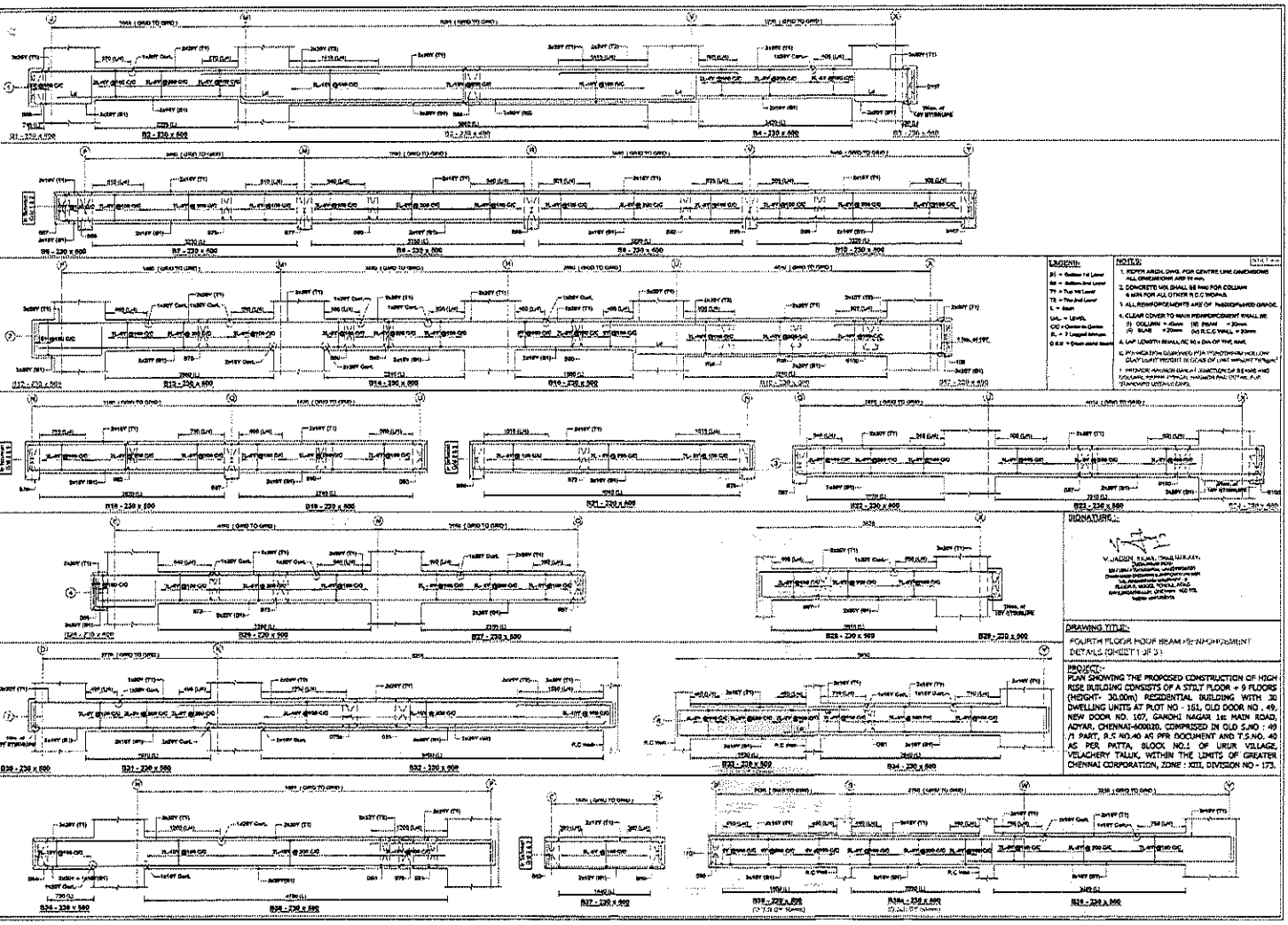
V. JAGDEESAN, M.E., M.I.E., (I), C.Eng., M.I.S.T.E.
M.I.E.(I) No.:
M.I.E.(I), M.I.S.T.E., C.Eng., M.I.W.W.A.I.
CHARTERED ENGINEER (I)
M.I.S.T.E. No.:
M.I.W.W.A.I. No.:
CIVIL STRUCTURAL CONSULTANT
CHENNAI

DRAWING TITLE:-

TYPICAL FLOOR ROOF BEAMS REINFORCEMENT DETAILS (SHEET 2 OF 3) (1st, 2nd & 3rd Floors)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO . 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020, COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.



LEGEND:

BF = Bottom Fe Level
BB = Bottom Bed Level
TF = Top Fee Level
TB = Top Bed Level
L = Beam
LVL = LEVEL
CC = Centre to Centre
C = Column
S.B = Shear Wall Beam

NOTES:

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M35 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF Fe500(HYSD) GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE:
   (i) COLUMN = 40mm (ii) BEAM = 30mm
   (iii) SLAB = 20mm (iv) R.C.C WALL = 30mm
5. LAP LENGTH (BEAM), 50 x DIA OF THE BAR.
6. PVC PIPE FOR DRAINAGE (OR) TYPOTHENE HOLLOW PLAT LIGHT TROUGH IS TO BE OF LINE WITH BEAM WIDTH.
7. WHEREVER JUNCTION BOX AT JUNCTION OF BEAMS AND COLUMN, REFER STRUCTURAL DRAWING FOR DETAILS, FOR STANDARD DETAILS (UNIT).

SIGNATURE:

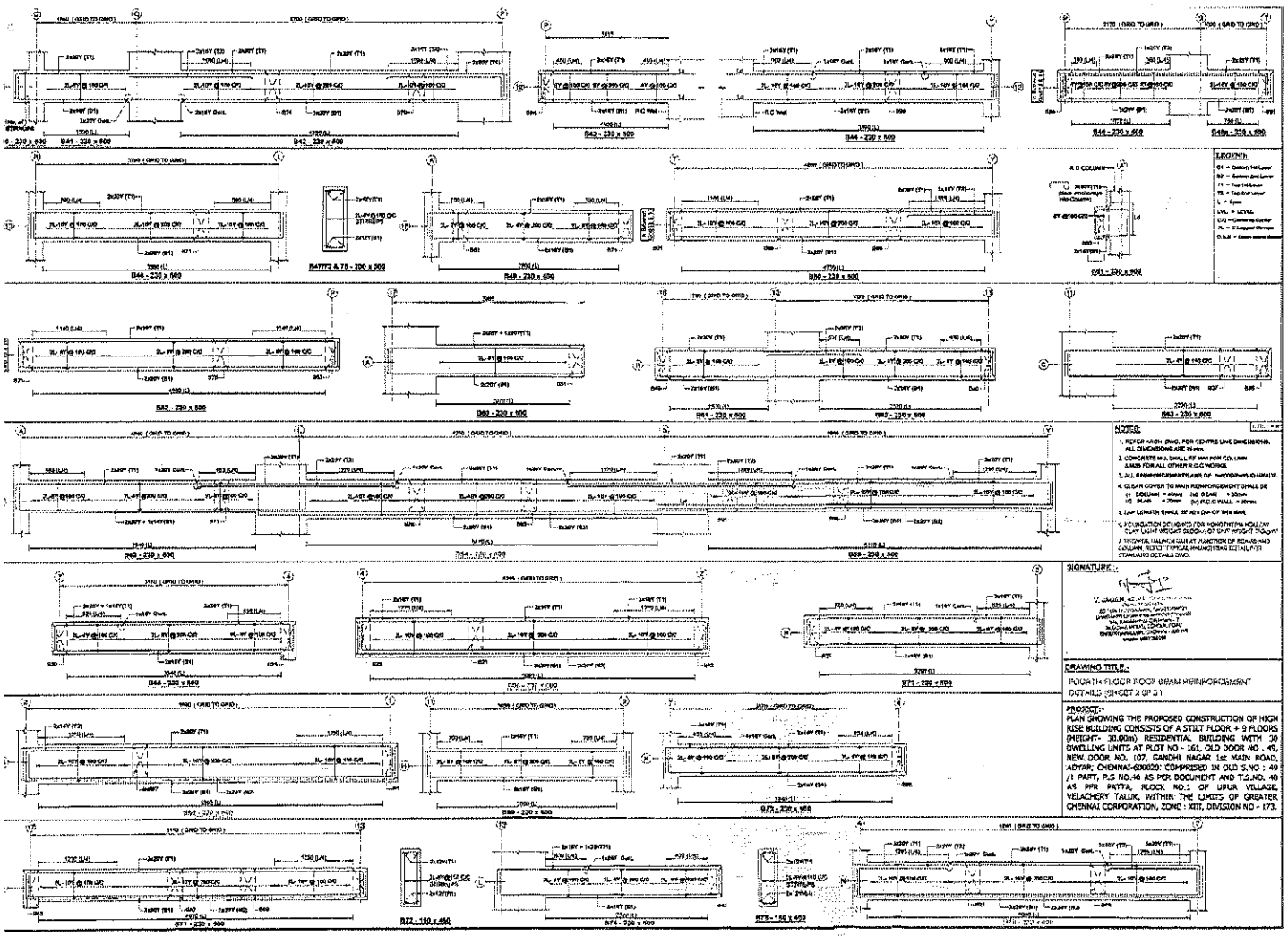
V. JAGAN, B.E.M., [illegible]

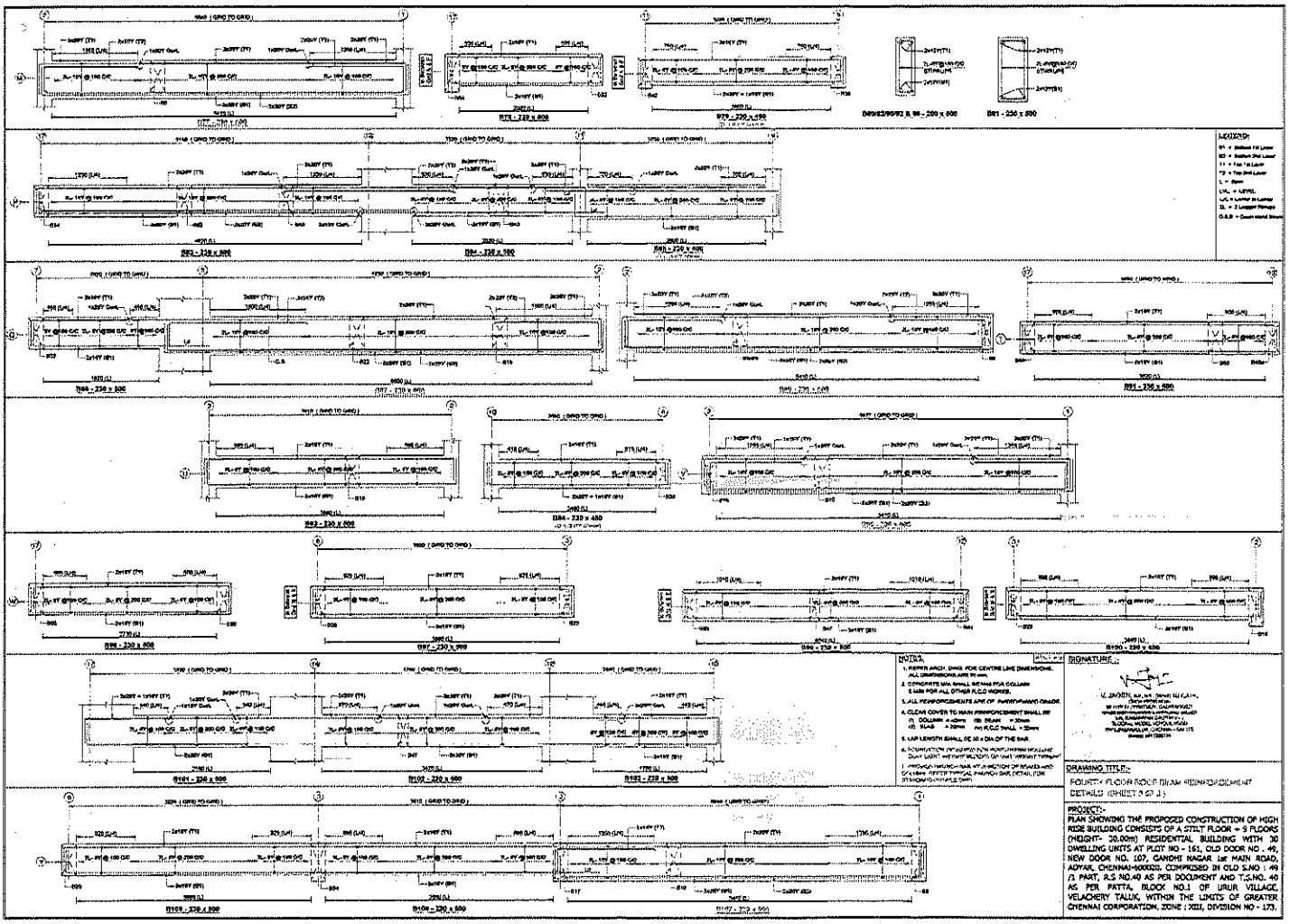
DRAWING TITLE:

FOURTH FLOOR ROOF BEAM REINFORCEMENT DETAILS SHEET 1 OF 3

PROJECT:

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO : 49, NEW DOOR NO. 167, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020, COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.


B40 - 230 x 600
B41 - 230 x 600
B42 - 230 x 600
B43 - 230 x 600
B44 - 230 x 600
B45 - 230 x 600
B45a - 230 x 600
B46 - 230 x 600
B47/72 & 75 - 200 x 300
B49 - 230 x 600
B50 - 230 x 600
B51 - 230 x 600
B52 - 230 x 600
B60 - 230 x 600
B61 - 230 x 600
B62 - 230 x 600
B63 - 230 x 600
B64 - 230 x 600
B54 - 230 x 600
B69 - 230 x 600
B70 - 230 x 600
B71 - 230 x 600
B73 - 230 x 600
B74 - 230 x 600
B75 - 230 x 600
B72 - 150 x 450
B74 - 230 x 600
B75 - 150 x 450
B76 - 230 x 450
LEGEND:
NOTES:
SIGNATURE:
DRAWING TITLE:-
FOURTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 2 OF 2)
PROJECT:-
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 165, OLD DOOR NO. 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020 COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.



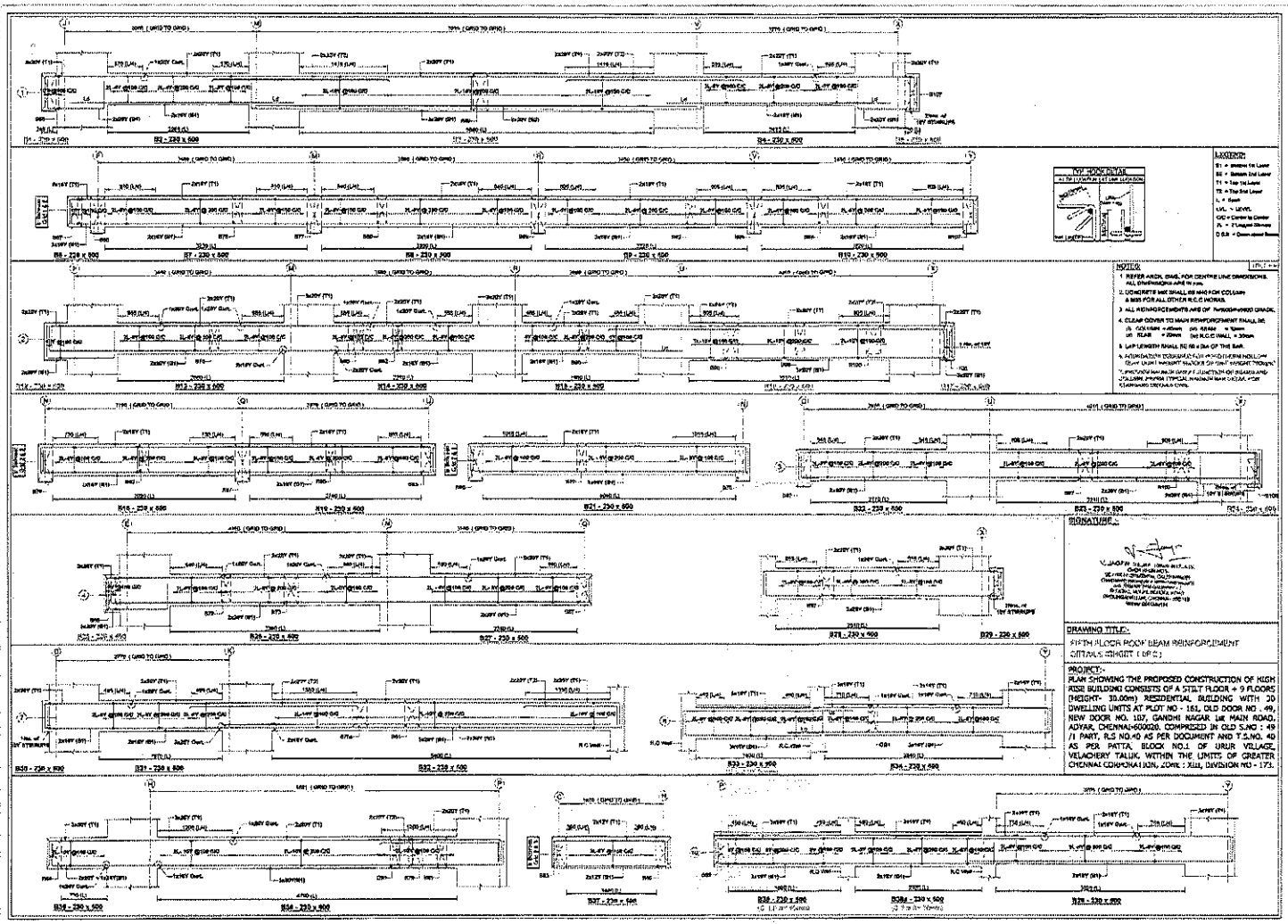
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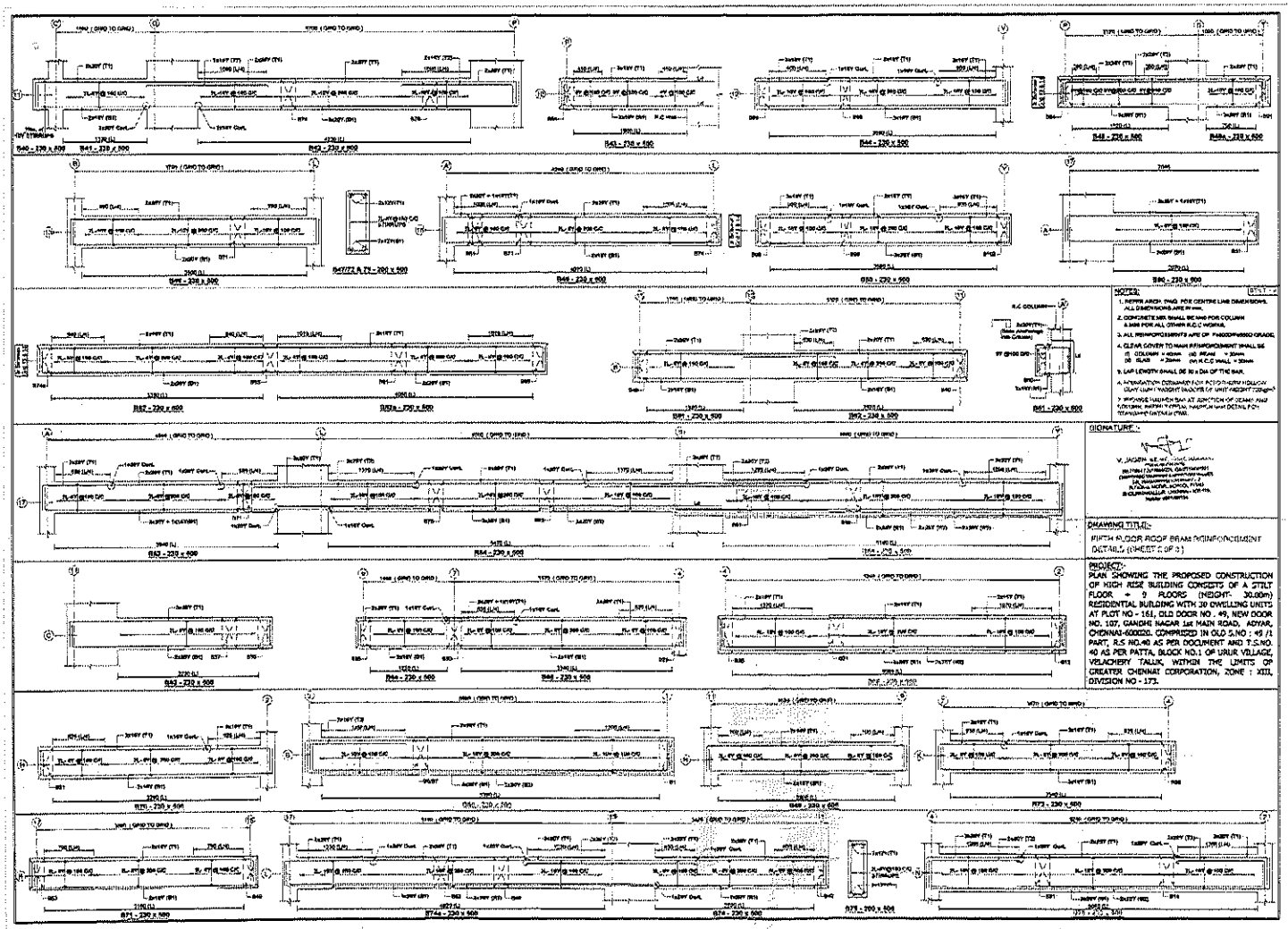
1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M30 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF FeHYP(HYSD) GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   (1) COLUMN = 40mm (2) BEAM = 30mm
   (3) SLAB = 20mm (4) R.C.C WALL = 12mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
6. CONSTRUCTION OF OPENINGS IN THE WORK, THROUGH WHICH SLAB JOINT WITHOUT MISSING OR VISIT VERTICAL THROUGH
7. PROVIDE TRIANGULAR FILLET AT JUNCTION OF BEAMS AND SLABS. REFER TYPICAL DETAIL FOR DETAILS.

SIGNATURE :-

DRAWING TITLE :-
FOURTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 2 OF 3)

PROJECT :-
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO . 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.


B2 - 230 x 600
T1 - 230 x 600
B4 - 230 x 600
B5 - 230 x 600
B7 - 230 x 600
B8 - 230 x 600
B9 - 230 x 600
B10 - 230 x 600
B12 - 230 x 600
B14 - 230 x 600
B15 - 230 x 600
B16 - 230 x 600
B17 - 230 x 600
B18 - 230 x 600
B19 - 230 x 600
B21 - 230 x 600
B22 - 230 x 600
B23 - 230 x 600
B24 - 230 x 600
B25 - 230 x 600
B26 - 230 x 600
B27 - 230 x 600
B28 - 230 x 600
B29 - 230 x 600
B30 - 230 x 600
B31 - 230 x 600
B32 - 230 x 600
B33 - 230 x 600
B34 - 230 x 600
B35 - 230 x 600
B36 - 230 x 600
B37 - 230 x 600
B38 - 230 x 600
B39 - 230 x 600
TOP HOOK DETAIL
NOTES:
1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M35 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF Fe500D HYSD GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
(i) FOOTING = 50mm (ii) BEAM = 25mm
(iii) REAR = 20mm (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
SIGNATURE :
DRAWING TITLE:-
SIXTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (HEIGHT (0F C))
PROJECT:-
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO . 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 175.



NOTES:

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS, ALL DIMENSIONS ARE in mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M35 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF Fe500D/Fe550D GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   - COLUMN = 40mm OR Φ(Dia) + 20mm
   - SLAB = 20mm OR Φ(Dia) + 20mm
   - R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
6. ALTERNATION DESIGNED FOR ASSUMED ALLOW. SOIL BEARING CAPACITY OF UNIT WEIGHT 2t/sqm.
7. PROVIDE HANGER BAR AT JUNCTION OF BEAMS AND WHERE NEEDED AS PER TYPICAL DETAIL FOR TREATMENT DETAILS (TYP).

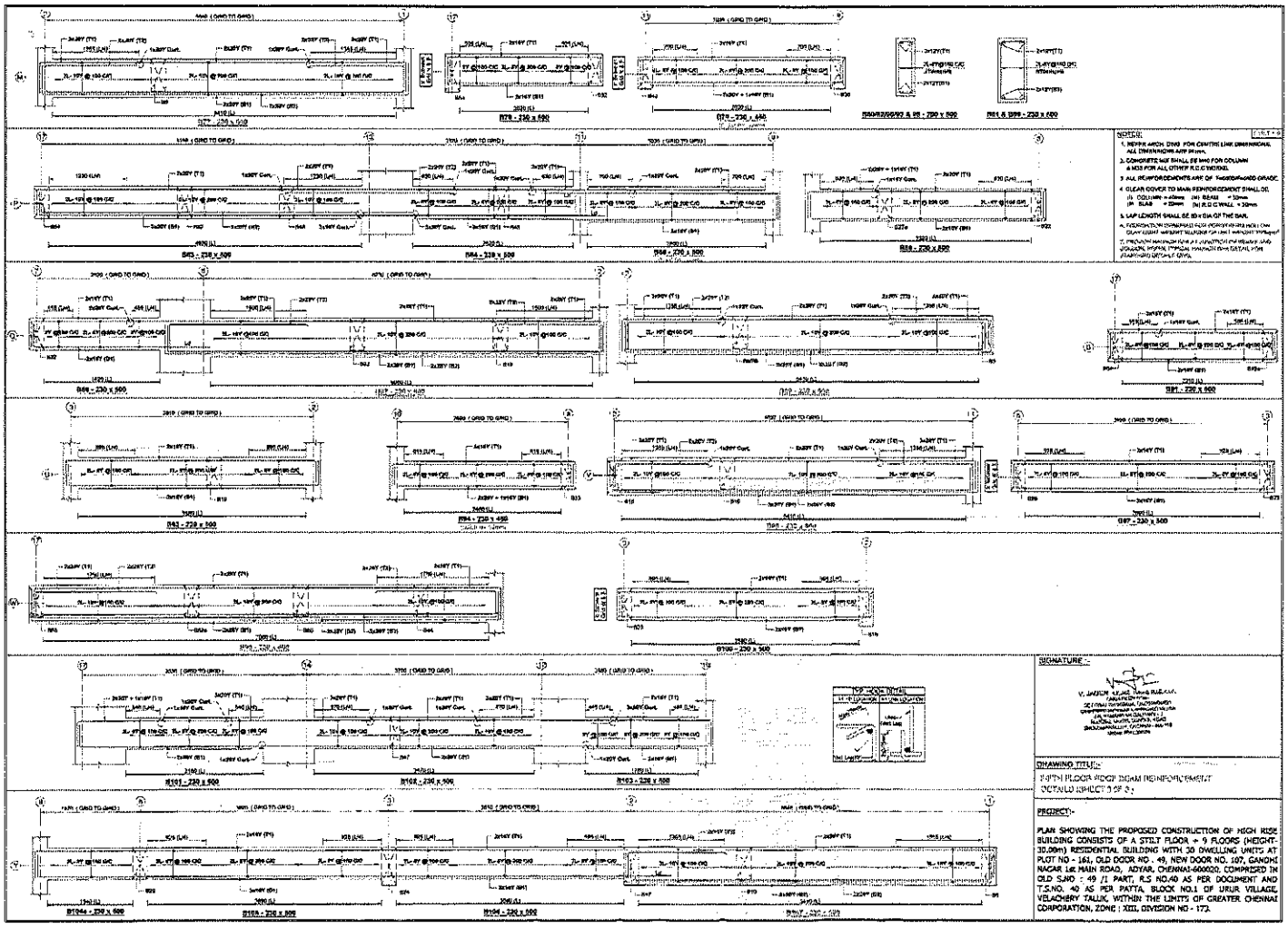
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DRAWING TITLE:

FIFTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 2 OF 3)

PROJECT:

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.60m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO - 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.



NOTES:

1. REFER ARCH. DWG FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M30 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF Fe500D/Fe415 GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE.
   (A) COLUMN = 40mm (B) BEAM = 30mm
   (C) SLAB = 20mm (D) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 60 x DIA OF THE BAR.
6. FOUNDATION DRAWINGS ARE FOR REFERENCE ONLY. CONSULTANT MUST VERIFY ALL DIMENSIONS BEFORE STARTING WORK.
7. PROVIDE MINIMUM 50MM P.C.C (1:2:4) UNDER ALL FOOTINGS, RAFT, PLINTH BEAM, STRAP BEAM, RETAINING WALL ETC.

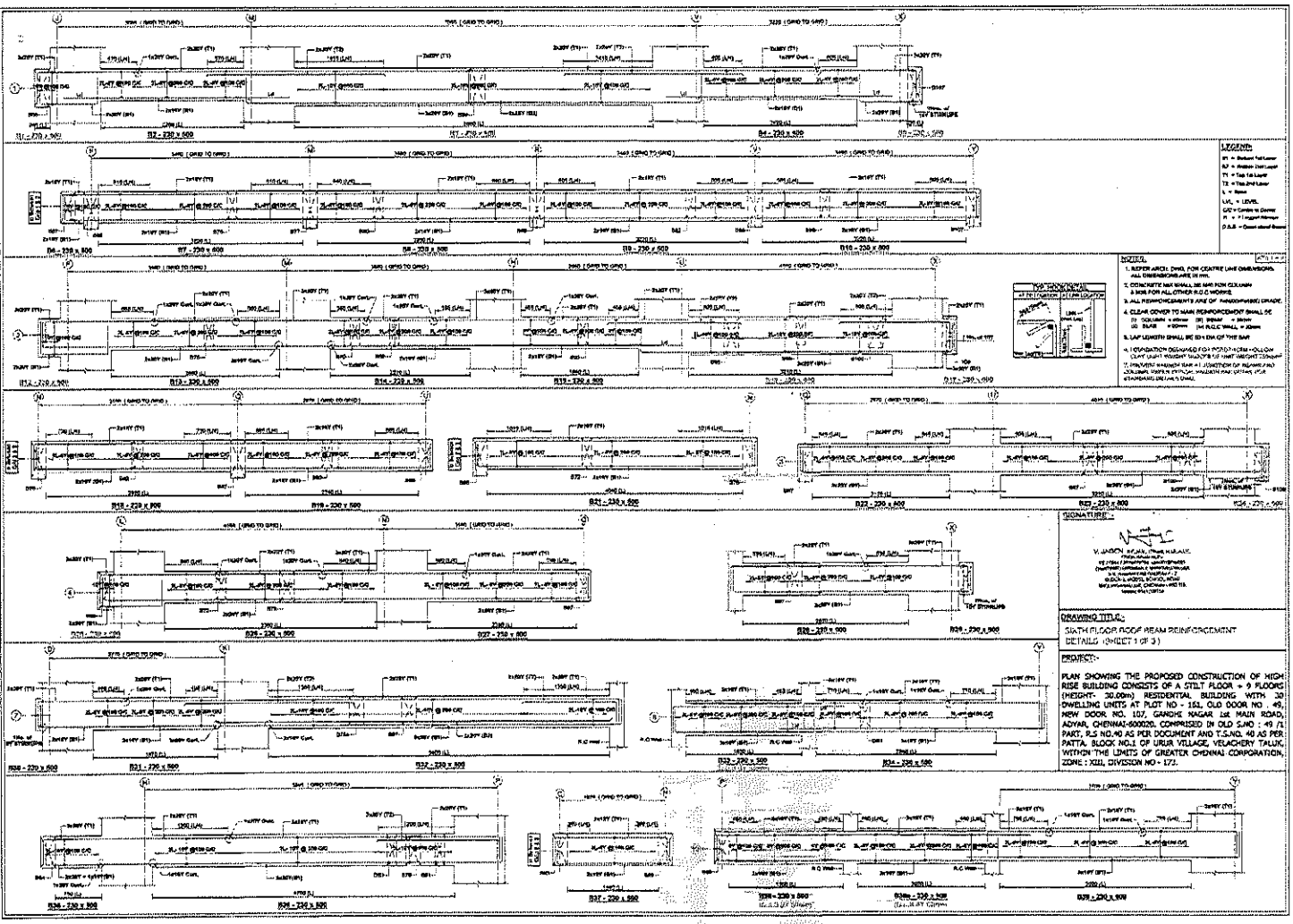
SIGNATURE :-

DRAWING TITLE:-

FIFTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 2 OF 2)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT-30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO - 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020, COMPRISED IN OLD S.NO - 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 172.



NOTES:

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE M40 SHALL BE USE FOR COLUMN & M35 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF Fe500D(HYSD) GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   - (i) COLUMN = 40mm
   - (ii) BEAM = 25mm
   - (iii) SLAB = 20mm
   - (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR
6. 1 DEVIATION ORGANIZED FOR 1 POINT FROM FOLLOW CLAY LIGHT WEIGHT MASONRY OF UNIT WEIGHT 12kN/m³
7. PROVIDE MINIMUM BAR AT JUNCTION OF BEAMS AS FOLLOWS, WHERE TWO OR MORE MINIMUM BAR OPTION OF 4 NOS 16mm DIA BARS

LEGEND:

- FT = Bottom 1st Layer
- SJ = Bottom 2nd Layer
- TT = Top 1st Layer
- T2 = Top 2nd Layer
- L = Span
- LVL = LEVEL
- C/C = Centre to Centre
- FL = FF Layout Plan
- D.S.S = Direct Shear Stress

SIGNATURE:

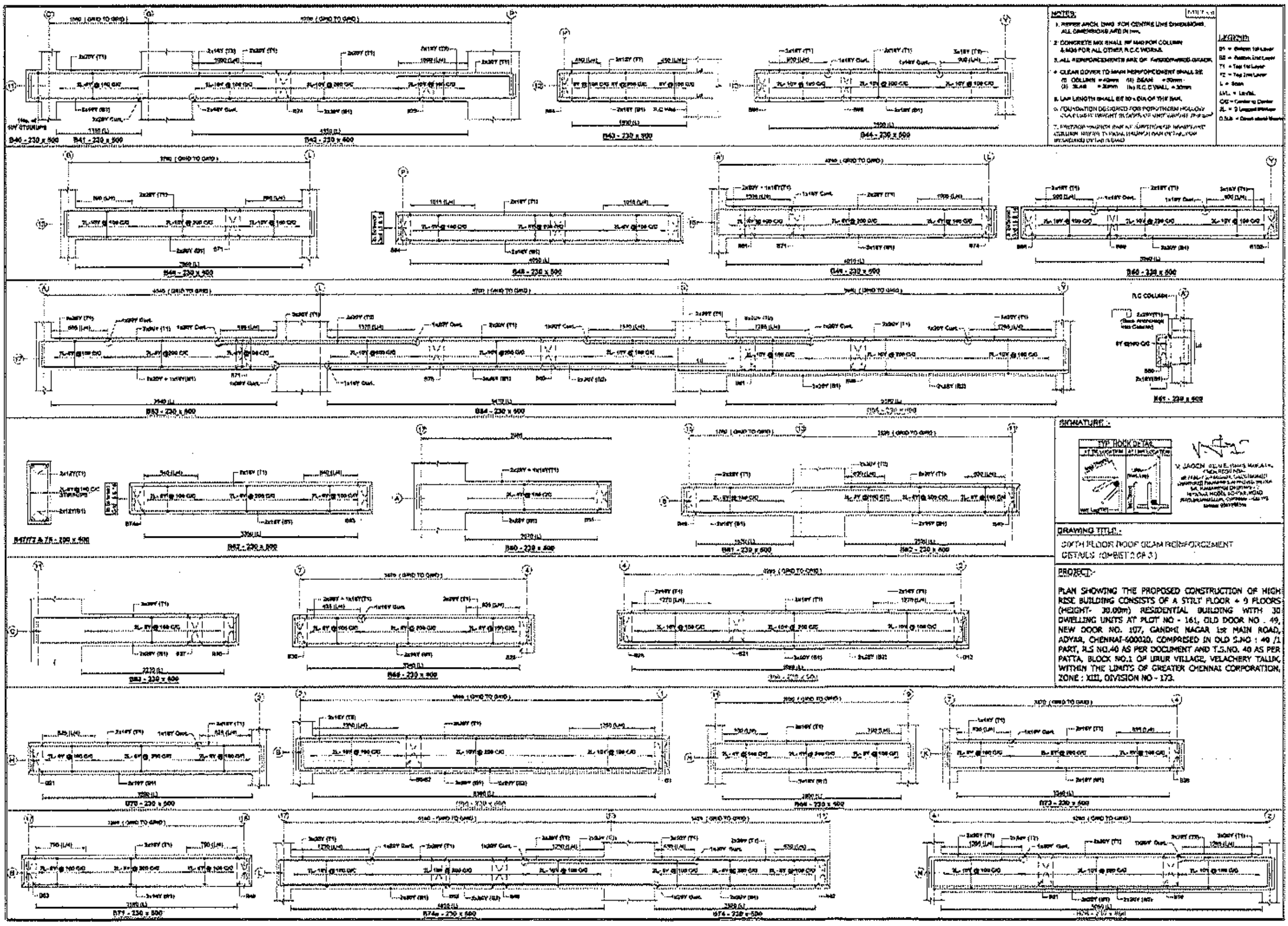
V. JASON, M.Arch., (Town Planning), M.B.A., (HR)
Regd. Valuer (G.O.)
Chartered Architect & Town Planner
Regd. Architect, Regd. Engineer, Regd. Surveyor
Regd. Interior Designer
Regd. Construction Manager
Regd. Project Manager
Regd. Valuer, Regd. Auditor etc.,

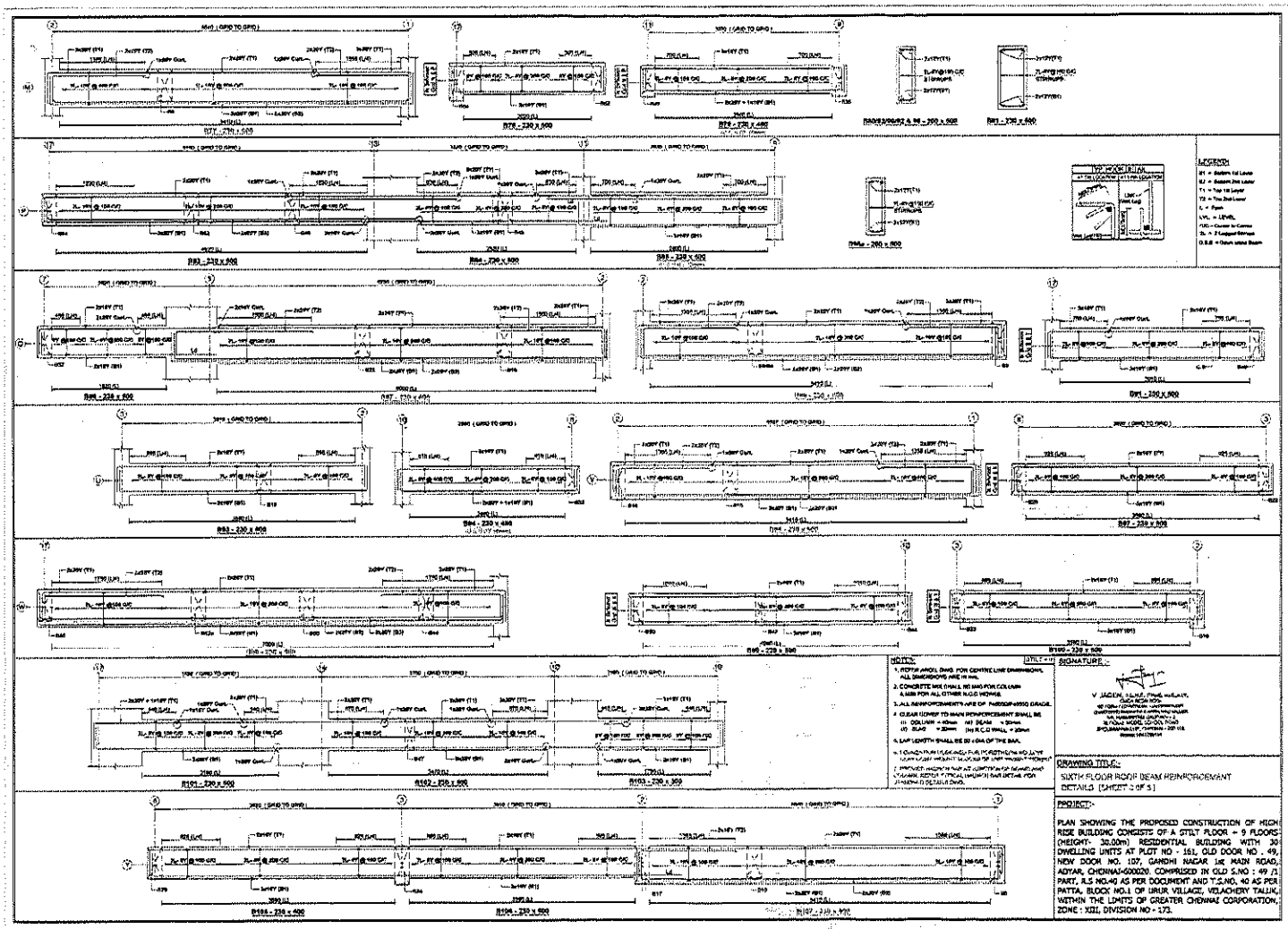
DRAWING TITLE:

SIXTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 1 OF 3)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO - 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020, COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.


NOTES:
1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M30 FOR ALL OTHER R.C.C WORKS.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
LEGEND:
L = Span
C/C = Center to Center
SIGNATURE:-
TYP HOOK DETAIL
DRAWING TITLE:-
SIXTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 2 OF 3)
PROJECT:-
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO . 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 40 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.



NOTES:

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS, ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX GRADE NO MIX FOR COLUMN & M35 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF Fe550D(FE550) GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   (i) COLUMN = 40mm (ii) BEAM = 30mm
   (iii) SLAB = 20mm (iv) R.C.C WALL = 20mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
6. [illegible]

UTILITY :

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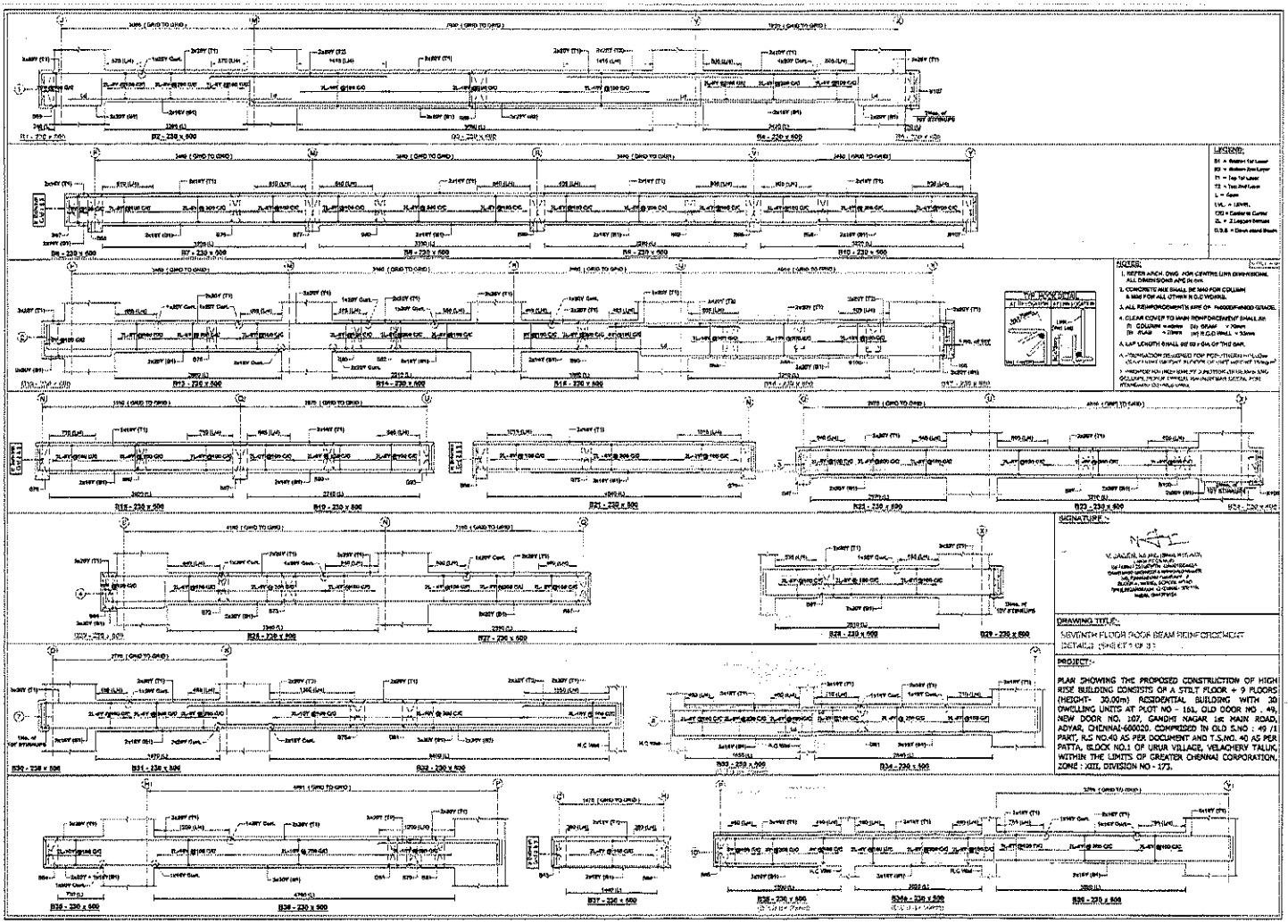
V JAGEN, B.E.M.E., [illegible]
[illegible]

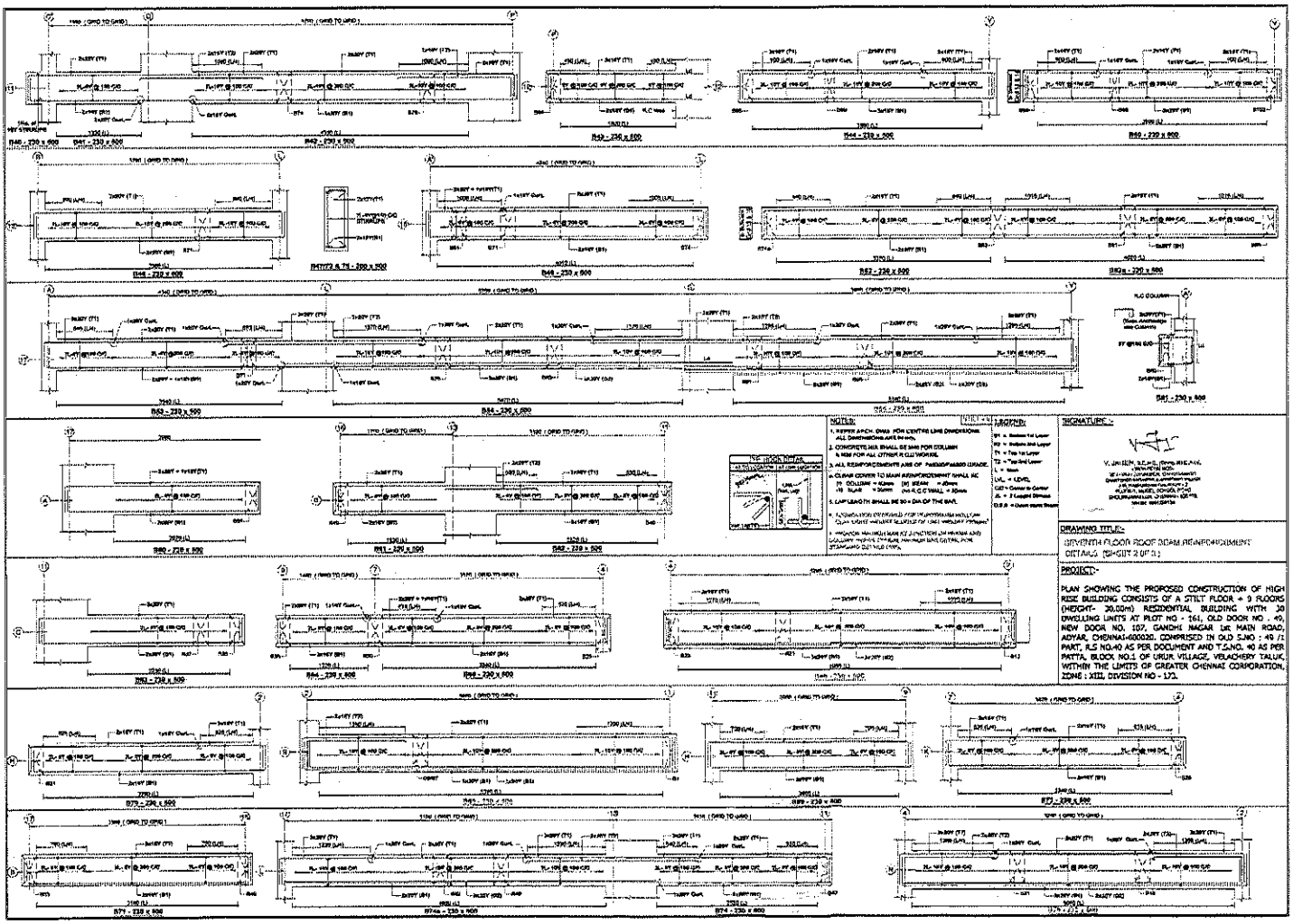
DRAWING TITLE:-

SIXTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 2 OF 3)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 151, OLD DOOR NO - 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020 COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO:49 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.


B2 - 230 x 600
B3 - 230 x 600
B4 - 230 x 600
B7 - 230 x 600
B8 - 230 x 600
B9 - 230 x 600
B10 - 230 x 600
B13 - 230 x 600
B14 - 230 x 600
B15 - 230 x 600
B18 - 230 x 600
B19 - 230 x 600
B21 - 230 x 600
B23 - 230 x 600
B24 - 230 x 600
B27 - 230 x 600
B28 - 230 x 600
B29 - 230 x 600
B30 - 230 x 600
B31 - 230 x 600
B32 - 230 x 600
B33 - 230 x 600
B34 - 230 x 600
B35 - 230 x 600
B36 - 230 x 600
B37 - 230 x 600
B38 - 230 x 600
B39 - 230 x 600
B40 - 230 x 600
LEGEND:
NOTES:
1. REFER ARCH. DWG FOR CENTRE LINE DIMENSIONS, ALL DIMENSIONS ARE IN mm
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M30 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF Fe500D HYSD GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
a) COLUMN = 40mm b) BEAM = 25mm
c) SLAB = 20mm d) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
6. *PROVISION DESIGNED FOR POP-TINGERS HOLLOW CLAY HOLLOW BLOCKS OF UNIT WEIGHT 9kN/m³
* PROVIDED NON-LOAD BEARING PARTITION WALL SHALL BE CONSIDERED AS UNIFORM LOAD OF 1.5kN/m²
SIGNATURE :-
DRAWING TITLE:-
SEVENTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 1 OF 3)
PROJECT:-
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO . 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.



NOTES:

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE M25 SHALL BE USE FOR COLUMN & M30 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF FE500D GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   (i) COLUMN = 40mm (ii) BEAM = 25mm
   (iii) SLAB = 15mm (iv) R.C.C WALL = 20mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.

ABBREVIATIONS:

BT = Bottom Top Layer
BS = Bottom 2nd Layer
TT = Top 1st Layer
T2 = Top 2nd Layer
L = Lintel
LVL = LEVEL
C2C = Center to Center
A = 2 Legged Stirrup
C.O.S = Chajja slope Beam

SIGNATURE :-

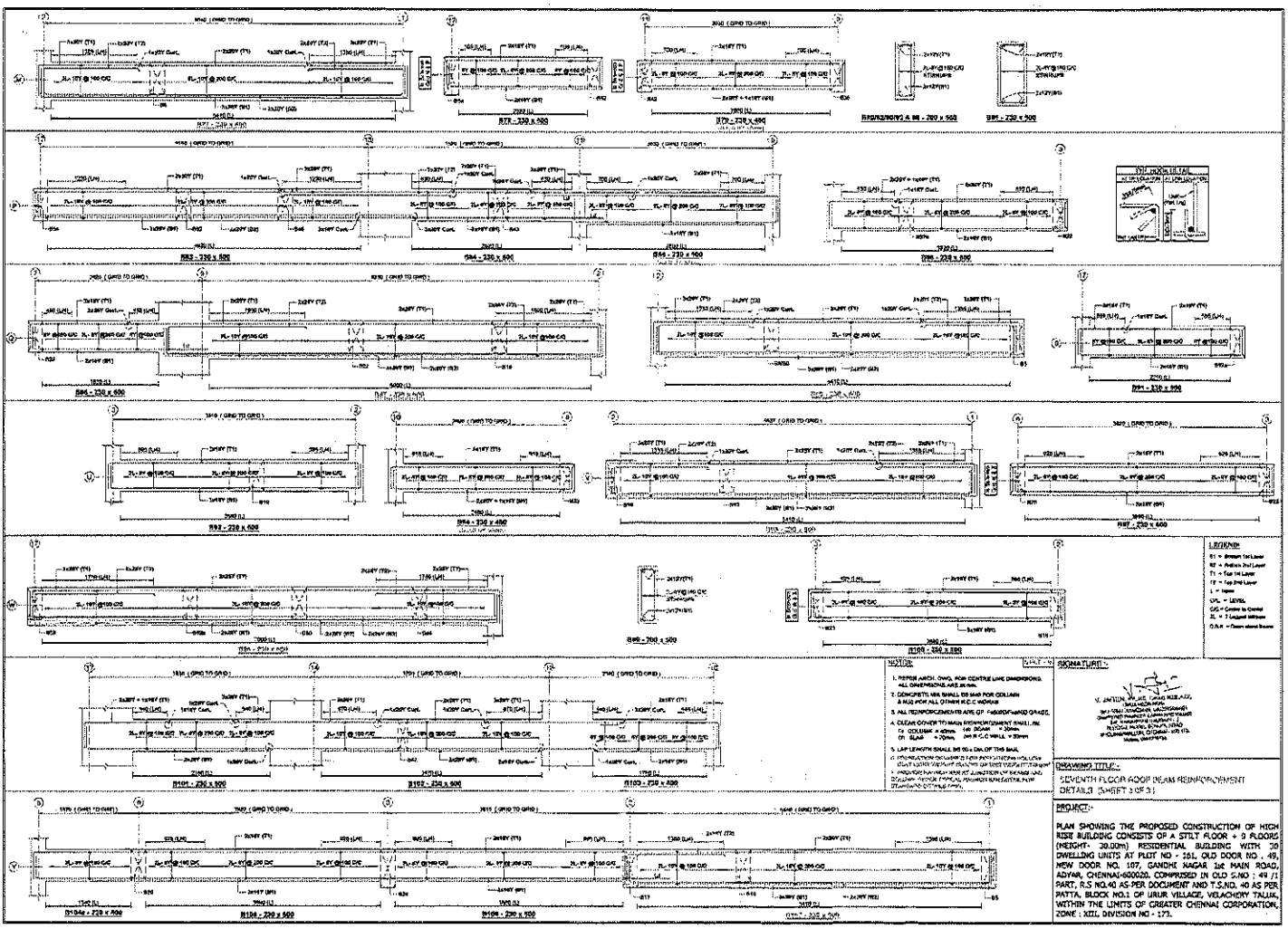
V. JAI (B.E., M.E., M.S.)
CHENNAI-600020.

DRAWING TITLE:-

SEVENTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 2 OF 3)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO - 40, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO - 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.



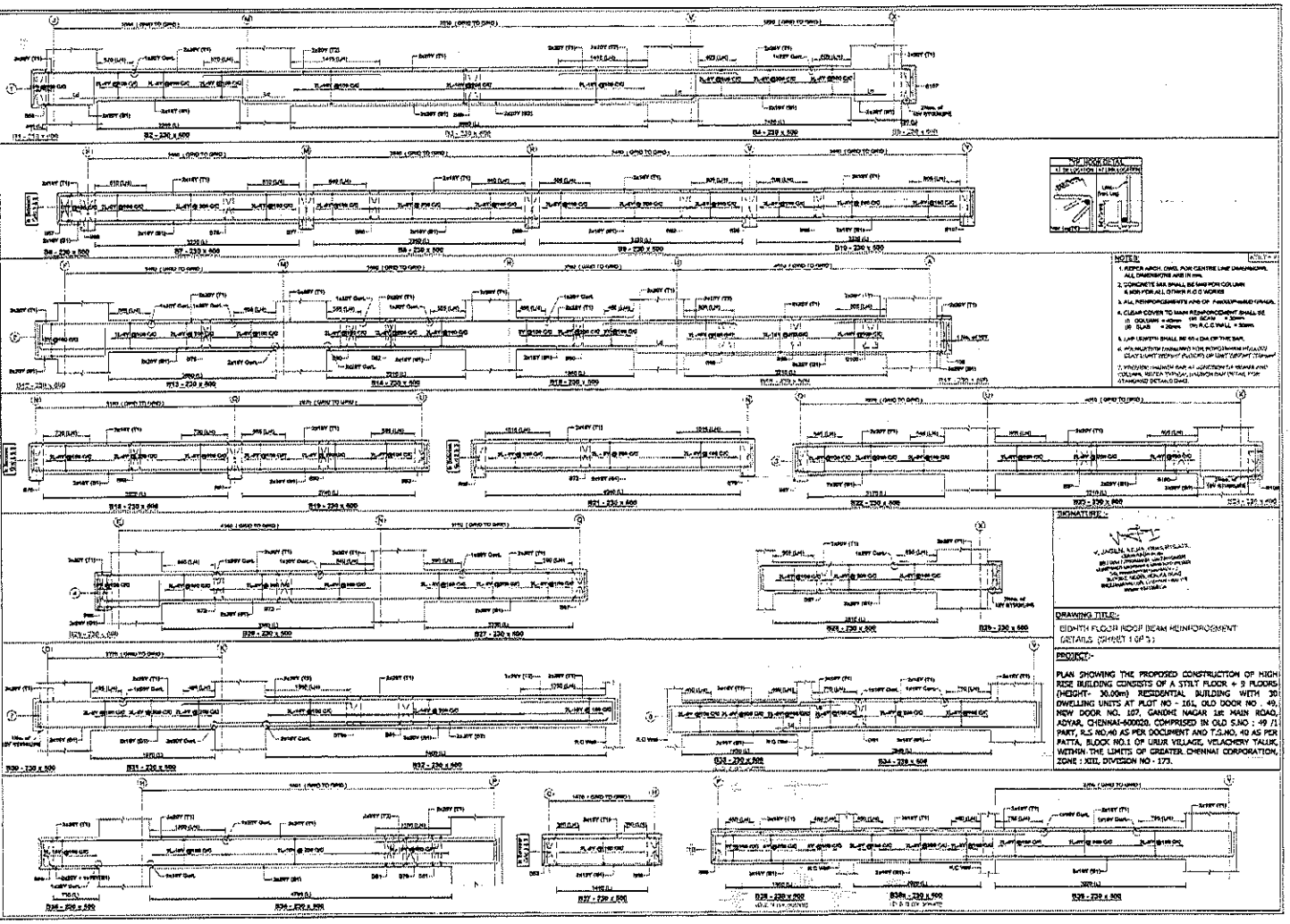
LEGENDS:
B1 = Bottom 1st Layer
B2 = Bottom 2nd Layer
T1 = Top 1st Layer
T2 = Top 2nd Layer
L = Lapse
LVL = LEVEL
C/C = Centre to Centre
CL = Centre Line
O.A.H = Open above Beam

NOTES:
1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M30 FOR ALL OTHER R.C.C WORKS
3. ALL TMT REINFORCEMENTS ARE OF Fe600/Fe500D GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
IN COLUMN = 40mm (40 BEAM = 30mm
IN SLAB = 20mm (40 R.C.C WALL = 35mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
6. FOUNDATION DETAILS TO BE READ IN CONJUNCTION WITH SOIL INVESTIGATION REPORT AND STRUCTURAL DESIGN.
7. FOR DETAILS NOT SHOWN HERE AT JUNCTION OF BEAMS AND SLABS, REFER TYPICAL FRAMING AND SLAB REINFORCEMENT DETAILS DWG.

SIGNATURE:-

DRAWING TITLE:-
SEVENTH FLOOR ROOF SLAB REINFORCEMENT DETAILS (SHEET 3 OF 3)

PROJECT:-
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO . 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020, COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS-PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XII, DIVISION NO - 175.



TOP WORK DETAIL

NOTES:

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS, ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M30 FOR ALL OTHER R.C.C WORKS
3. ALL REINFORCEMENTS ARE OF Fe500/Fe500D GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   (i) COLUMN = 40mm (ii) BEAM = 30mm
   (iii) SLAB = 20mm (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
6. 45% OF MAXIMUM TENSION REINFORCEMENT AT ANY SECTION SHALL BE USED IN LAP SPLICES. NOT MORE THAN ALL REINFORCEMENT BARS AT ANY SECTION SHALL BE SPLICED. SPLICES IN ADJACENT BARS SHALL BE STAGGERED BY 600mm. FOR STAGGERED DETAILS REFER DWG.
7. WHENEVER TWO OR MORE BARS ARE USED IN CONTACT IN VERTICAL LINE, SUCH AS COLUMN MAIN BARS AT LAP LOCATIONS OR BEAM BARS OVER SUPPORTS, THE BARS SHALL BE TIED TOGETHER WITH 16 GAUGE BINDING WIRE AT INTERVALS NOT EXCEEDING THE LEAST OF THE FOLLOWING:
   (i) 16 TIMES THE DIAMETER OF THE SMALLEST BAR
   (ii) 300mm

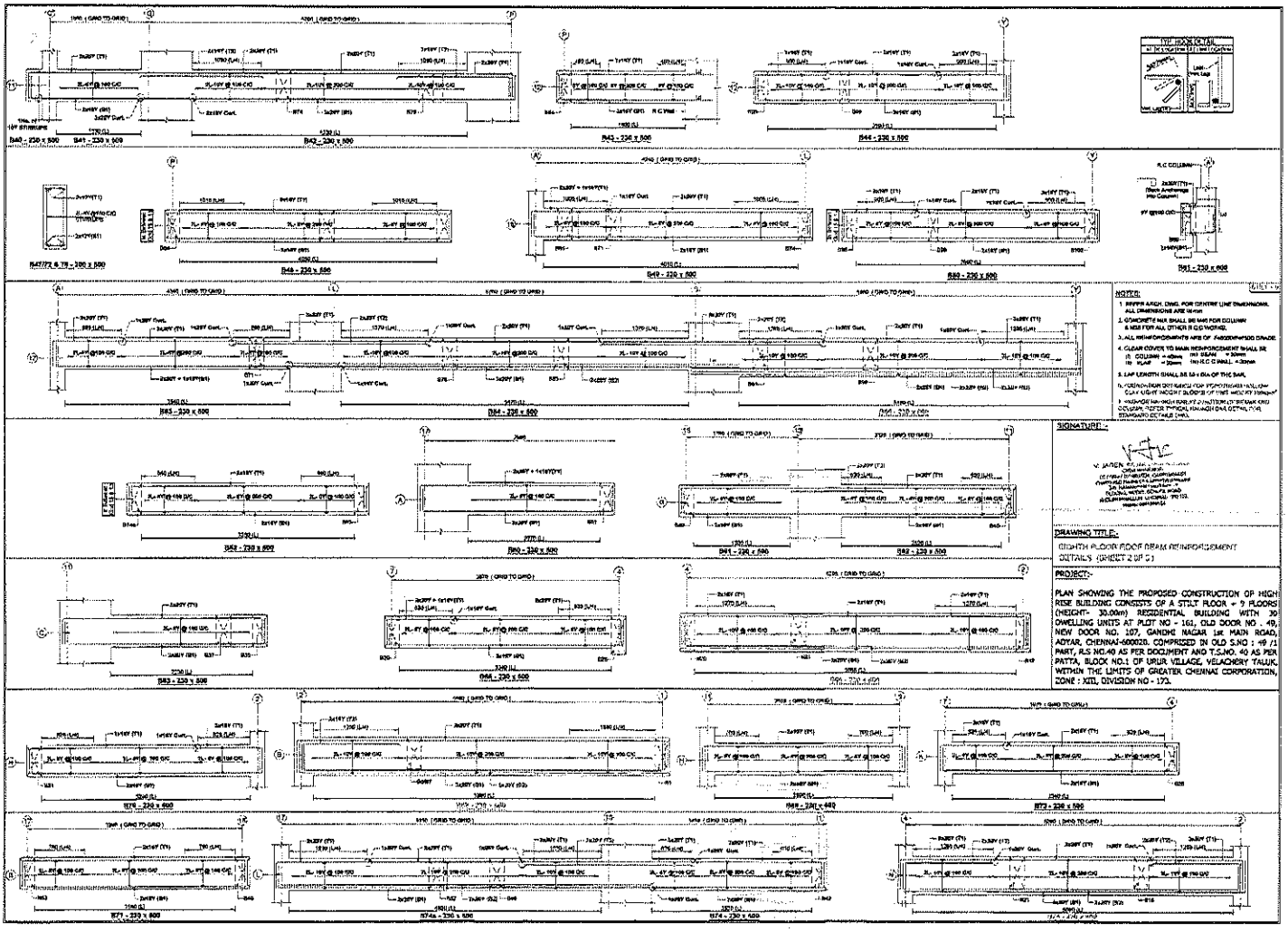
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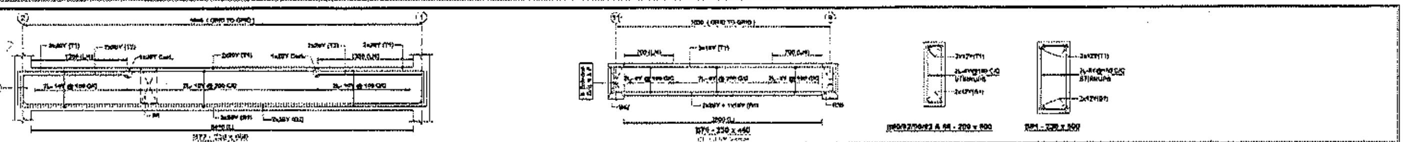
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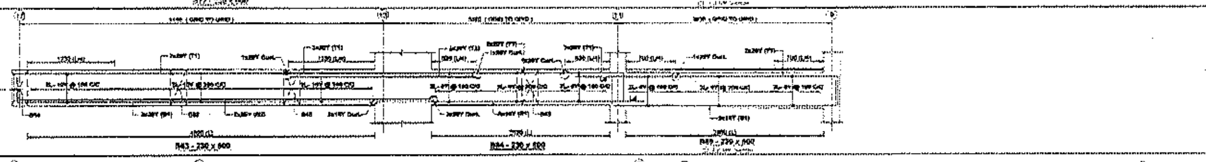
EIGHTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 1 OF 2)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO . 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020, COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XII, DIVISION NO - 173.

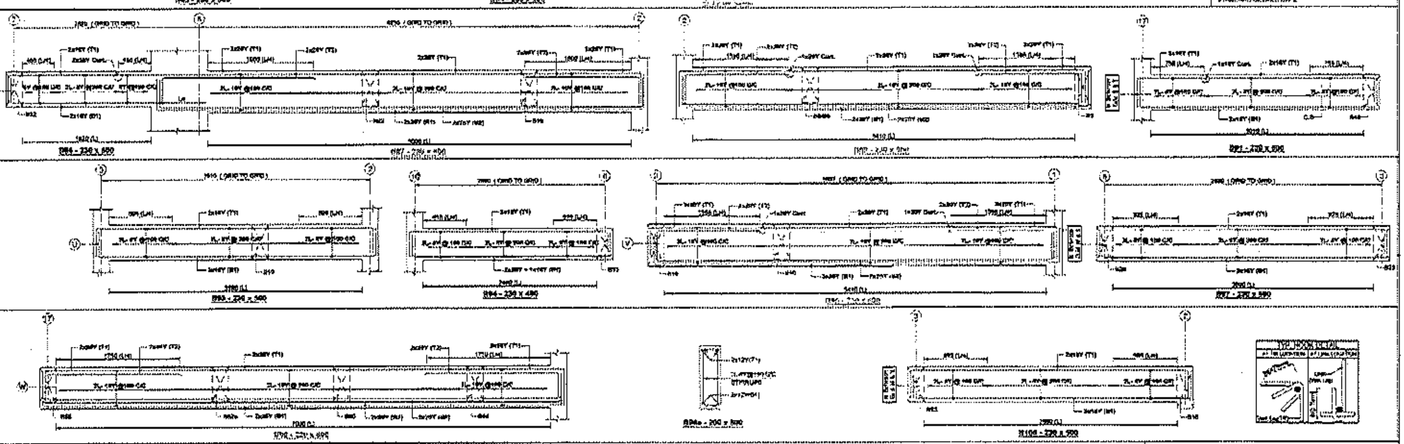

TYP. HOOK DETAIL
B40 - 230 x 500
B41 - 230 x 500
B42 - 230 x 500
B43 - 230 x 500
B44 - 230 x 500
B45/72 & 79 - 230 x 500
B46 - 230 x 500
B47 - 220 x 500
B80 - 230 x 500
B81 - 230 x 600
B65 - 230 x 500
B66 - 230 x 500
B67 - 230 x 500
NOTES:
1. DRAWN ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE in mm
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M30 FOR ALL OTHER R C C WORKS.
3. ALL REINFORCEMENTS ARE OF Fe500D/HYSD GRADE
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
(i) COLUMN = 40mm (ii) SLAB = 30mm
(iii) FLAT = 25mm (iv) R C C WALL = 20mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
SIGNATURE :-
B82 - 230 x 600
B83 - 230 x 500
B84 - 230 x 500
B85 - 230 x 500
B86 - 230 x 500
B87 - 230 x 500
B88 - 230 x 600
B72 - 230 x 500
B73 - 230 x 500
B74a - 230 x 500
B74 - 230 x 500
DRAWING TITLE:-
EIGHTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 2 OF 3)
PROJECT:-
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 39 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO . 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TAUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 172.

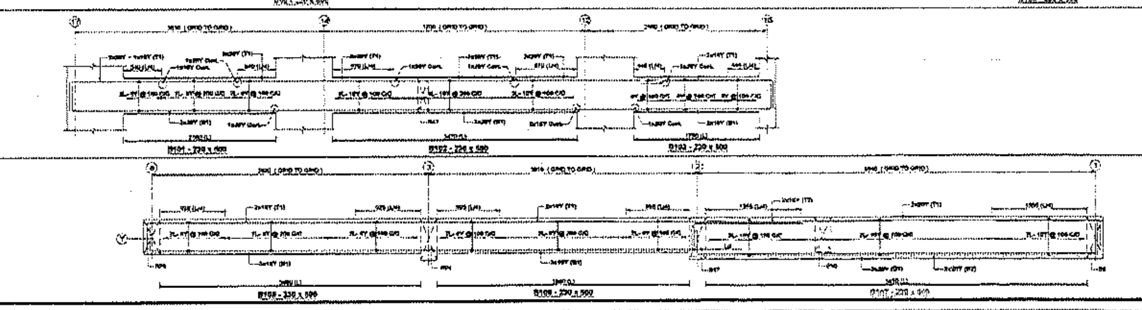




NOTES:

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE [illegible] FOR COLUMN & M25 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF [illegible] GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE (i) COLUMN = [illegible] (ii) BEAM = [illegible] (iii) SLAB = [illegible] (iv) R.C.C WALL = [illegible]
5. LAP LENGTH SHALL BE [illegible] x DIA OF THE BAR.
6. FOUNDATION DESIGNED FOR [illegible] HOLLOW CLAY LIGHT WEIGHT BLOCKS OF UNIT WEIGHT [illegible]
7. PROVIDE HAUNCH BAR AT JUNCTION OF BEAMS AND COLUMN. REFER TYPICAL HAUNCH BAR DETAIL FOR STANDARD DETAILS DWG.





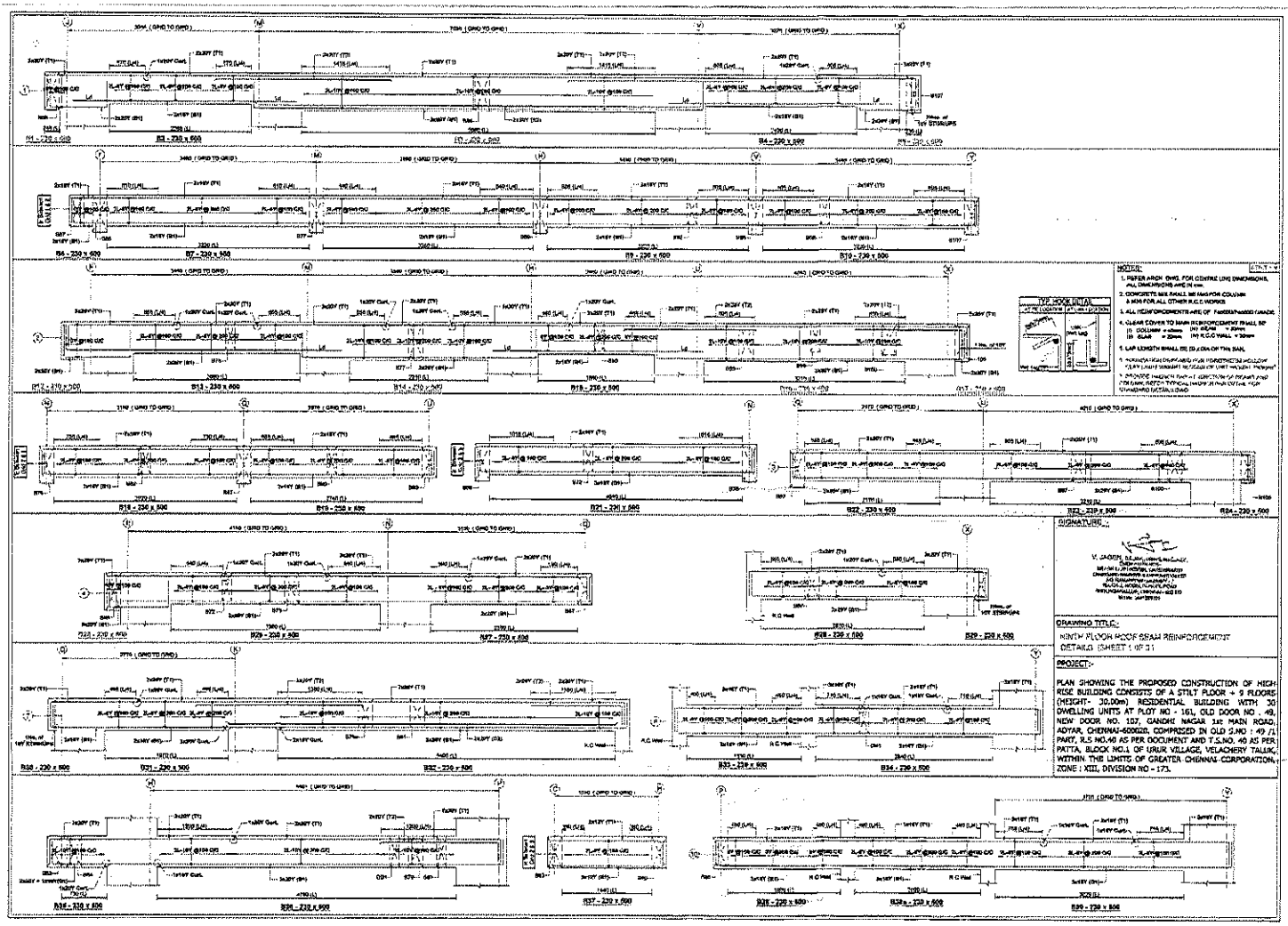
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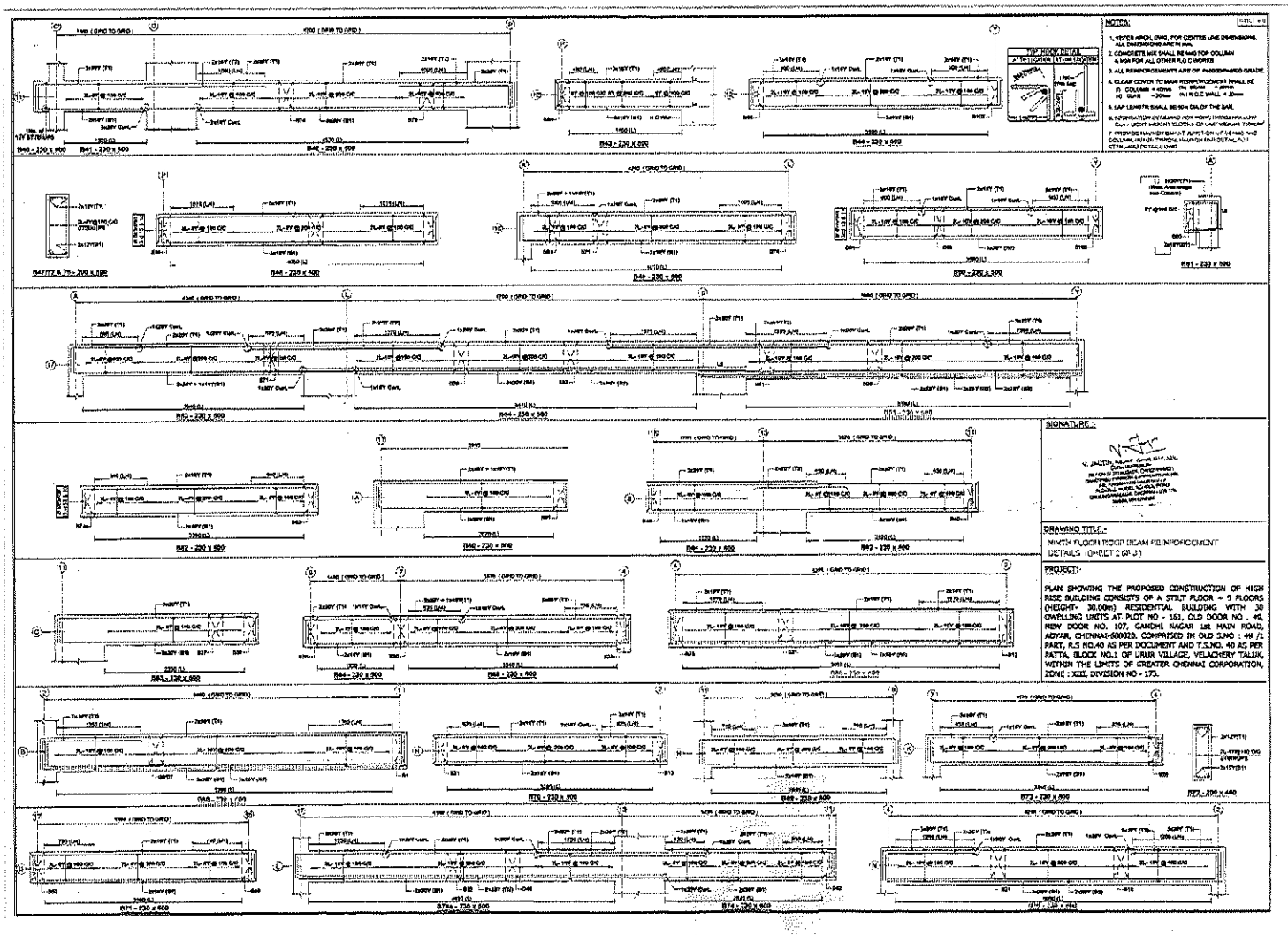
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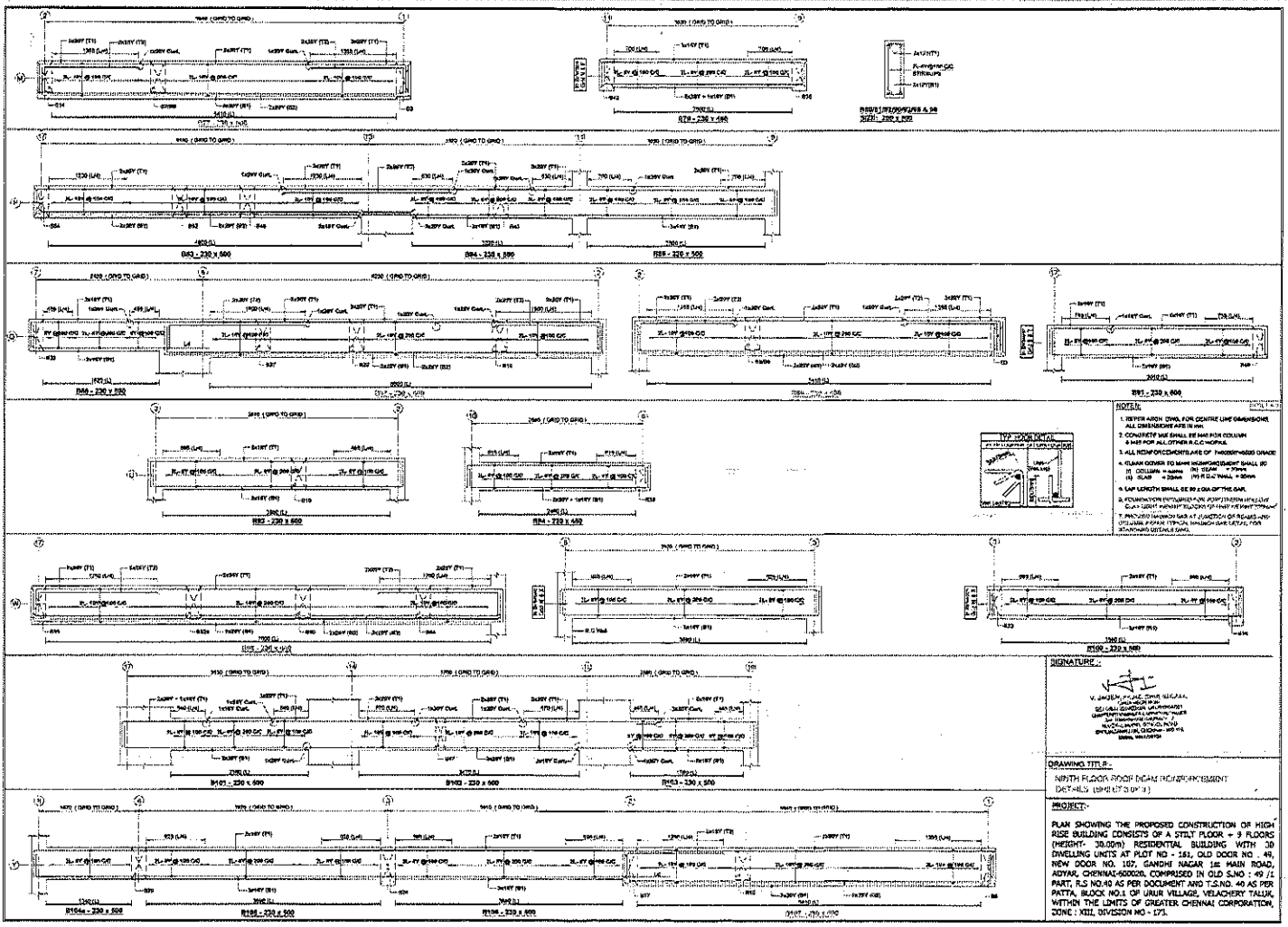
EIGHTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 3 OF 3)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO . 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.


B1 - 230 x 600
B2 - 230 x 600
B3 - 230 x 600
B4 - 230 x 600
B5 - 230 x 600
B6 - 230 x 600
B7 - 230 x 600
B8 - 230 x 600
B9 - 230 x 600
B10 - 230 x 600
B11 - 230 x 600
B12 - 230 x 600
B13 - 230 x 600
B14 - 230 x 600
B15 - 230 x 600
B16 - 230 x 600
B17 - 230 x 600
B18 - 230 x 600
B19 - 230 x 600
B21 - 230 x 600
B22 - 230 x 600
B23 - 230 x 600
B24 - 230 x 600
B25 - 230 x 600
B26 - 230 x 600
B27 - 230 x 600
B28 - 230 x 600
B29 - 230 x 600
B30 - 230 x 600
B31 - 230 x 600
B32 - 230 x 600
B33 - 230 x 600
B34 - 230 x 600
B35 - 230 x 600
B36 - 230 x 600
B37 - 230 x 600
B38 - 230 x 600
B38a - 230 x 600
B39 - 230 x 600
TYP. HOOK DETAIL
NOTES:
1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40/M30 COLUMN & M30 FOR ALL OTHER R.C.C WORKS
3. ALL REINFORCEMENTS ARE OF FE550D/FE500 GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
(i) COLUMN = 40mm (ii) BEAM = 25mm
(iii) SLAB = 20mm (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.
SIGNATURE :
DRAWING TITLE:-
NINTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 1 OF 1)
PROJECT:-
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 36 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO - 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020, COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.


NOTES:
TYP HOOK DETAIL
SIGNATURE
DRAWING TITLE:-
NINTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 2 OF 3)
PROJECT:-
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO - 40, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020, COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.



NOTES:

1. REFER ARCH DWG FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M30 FOR ALL OTHER R.C.C WORKS.
3. ALL REINFORCEMENTS ARE OF THERMO-MECH GRADE.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
   (i) COLUMN = 40mm (ii) BEAM = 25mm
   (iii) SLAB = 20mm (iv) R.C.C WALL = 50mm
5. GAP LENGTH SHALL BE 50 ± 0.6 OF THE GAP.
6. FOUNDATION DETAILS ARE AS PER SOIL REPORT.
7. PROVIDE HAUNCH SLAB AT JUNCTION OF BEAMS AND OTHERWISE MENTIONED. HAUNCH SLAB DETAIL FOR STAIRCASE REFER STAIR DWG.

SIGNATURE :-

DRAWING TITLE :-

NINTH FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 3 OF 3)

PROJECT :-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF A STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO - 161, OLD DOOR NO - 49, NEW DOOR NO. 107, GANDHI NAGAR 1st MAIN ROAD, ADYAR, CHENNAI-600020, COMPRISED IN OLD S.NO : 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.

RAHEJA

GEO MARINE CONSULTANTS (P) LTD.,

 # 11, 2nd MAIN ROAD, KANNAPPA NAGAR EXT,
KOTTIVAKKAM, CHENNAI – 600 041.
PH. NO. 044 - 24481485 & 24480305.
geotech@geomarineindia.com / drcvp@geomarineindia.com

PROJECT TITLE

THE PROPOSED CONSTRUCTION OF HIGH-RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS (HEIGHT- 30.00m) RESIDENTIAL BUILDING WITH 30 DWELLING UNITS AT PLOT NO-161, OLD DOOR NO. 49, NEW DOOR NO. 107, 1st MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO: 49 /1 PART, R.S NO.40 AS PER DOCUMENT AND T.S.NO. 40 AS PER PATTA, BLOCK NO.1 OF URUR VILLAGE, VELACHERY TALUK, WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION, ZONE: XIII, DIVISION NO - 173.

CLIENT

M/s RAMANIYAM REALTORS LLP,
RAMANIYAM CORPORATE OFFICE,
14/67, 3RD MAIN ROAD, GANDHI NAGAR, ADYAR,
TAMIL NADU- 600 020.

TITLE

GEOTECHNICAL INVESTIGATION REPORT

REPORT NO.: GT- 2942

GEO MARINE CONSULTANTS PVT. LTD. Chennai 600 041

DATE	REVISON	DESCRIPTION		AUTHORISED SIGNATORY
11/03/2025	0.0	SUBMISSION OF GEOTECHNCIAL REPORT	SIGNATURE	
			DATE OF FIRST SUBMISSION	11/03/2025
			DESIGNATION	MANAGING DIRECTOR
			NAME	DR. C.V. PRASAD

Report received
21/03/2025

GEOMARINE

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CHAPTER-1

INTRODUCTION

1.0 PROJECT INFORMATION MATRIX:

NATURE OF PROJECT	: PROPOSED HIGH RISE RESIDENTIAL BUILDING
STRUCTURE	: STILT + 9 UPPER FLOORS
PROJECT CLIENT	: M/s RAMANIYAM REALTORS LLP
PROJECT LOCATION	: Ist MAIN ROAD, GANDHI NAGAR, ADYAR
JOB CODE	: GT-2942

1.1 SCOPE OF WORK:

1.1.1 FIELD WORK:

- Conducting three soil investigation bore holes of 100mm or 150 mm diameter in soil and overburden soil & NX diameter (75mm diameter) in rock formation.
- The depth of investigation is 23.0m below the existing ground level based on the core recovery ratio in hard rock formation.
- Conducting Standard Penetration Test (SPT) within the borehole in overburden and grade-W5 weathering rock formation (wherever applicable) followed by rock core drilling up to the termination depth.
- Collection of disturbed soil sample (Split Spoon Sample) and rock core sample.
- Collection of water samples if groundwater table met within the investigation depth.

1.1.2 LABORATORY WORK:

- Natural Moisture Content
- Atterberg limits
- Grain Size Analysis
- Chemical Analysis test on soil and water samples to give pH, Chlorides and Sulphates
- Strength test on rock core

1.2 STRUCTURE OF THE REPORT:

- Contents
- Introduction
- Investigation Methodology & Test Results
- Sub-Surface Stratification
- Foundation System
- Recommendation
- Annexure

CHAPTER-2

INVESTIGATION METHODOLOGY & TEST RESULTS

2.0 PREAMBLE:

Three soil investigation boreholes were put as per the planning of the engineer in-charge and these locations are shown in Fig.2.0. The equipment used and the methodology adopted to carry out the fieldwork is described below.

S No	BH NO	GROUND IN RL (m)	DEPTH OF INVESTIGATION (m)
1.0	BH-01	-	23.0
2.0	BH-02	-	23.0
3.0	BH-03	-	23.0

2.1 METHODOLOGY OF FIELD WORK:

2.1.1 EQUIPMENT USED AND METHOD OF DRILLING:

Conventional rotary hydraulic drilling rigs sank the borehole. The methodology followed for boring conforming to IS: 1892 -2021. Boring was progressed by the cutting action of rotating bit with water circulation and stabilizing the side of the boreholes by using casing pipes/bentonite slurry up to the required depth to prevent sidewall collapse. Boring was continued by a normal boring process using an MS soil cutter in soil.

However, Tungsten Carbide (TC) bit drilling was resorted to drill in highly weathered rock stratum where the normal boring process became slow. Diamond Core (DC) bit drilling was adopted in moderately weathered rock formations where penetration using TC bit became slow.

2.1.2 STANDARD PENETRATION TESTS:

This is a field test to determine the "Penetration Resistance of Stratum at the Test Depth." This has generally been conducted in the boreholes up to refusal depth using procedures described in IS: 2131- 2002. In this test, the split spoon sampler (50.8 mm OD and 35 mm ID) has replaced the driving bit. The sampler is then driven by dropping a 63.5 kg hammer on top of the driving collar with a free fall of 75 cm.

Using an "A" rod at a specific depth, SPT is driven up to the length of 45 Cm. The number of hammer blows for each 15.0 cm penetration is recorded, and the total number of blows required for the last 30 cm is calculated as the SPT "N" value at the tested depth within the borehole. The first 15 cm is ignored and considered as seating blows. In the case of the refusal stratum, the number of blows and the penetration length are recorded in the respective depth, and SPT N is mentioned as >100.

SPT "N" values correlate with relative density for non-cohesive soils and consistency for cohesive soils.

SAND		CLAY	
SPT "N" VALUE	RELATIVE DENSITY	SPT "N" VALUE	CONSISTENCY
0 - 4	Very Loose	<2	Very Soft
4 - 10	Loose	2 - 4	Soft
10 - 30	Medium	4 - 8	Medium
30 - 50	Dense	8 - 15	Stiff
>50	Very Dense	15 - 30	Very Stiff
		>30	Hard

(Ref: Table No. 12.1, Table No. 12.2, Third Edition of Soil Mechanics in Engineering Practice. Karl Terzhagi, Ralph B.Peck, Gholamreza Mesri)

2.1.3 UNDISTURBED SAMPLING (SOIL) IN BOREHOLES (AS PER CLAUSE 7 OF IS 1892-2021):

Representative undisturbed samples were collected from the soft to stiff clay layer. These samples were used primarily to establish the compressibility parameters and estimate the settlements of shallow foundation systems wherever applicable.

Undisturbed samples were collected using MS tubes of suitable diameter and length with Area ratio as per clause 4.1.1 (c) of IS: 1892 (latest) fitted to an adopter with ball and socket arrangement. Before taking any sample, the sampling tube was properly greased. Immediately after taking an undisturbed sample in a tube, the adopter's head was removed along with the disturbed material. The visible ends of the sample were trimmed off any wet, disturbed soil. The ends were coated alternately with four layers of just molten wax. More molten wax was added to give a total thickness of min. 25 mm. The samples were carefully labelled and transported to the laboratory for testing. Undisturbed samples, wherever slipped during lifting, were duly marked in the field logs as well as in the soil profile.

2.1.4 FIELD INVESTIGATION IN ROCK STRATA:

Rotary drilling rigs were used to drill through the rocky stratum. TC/Diamond bits were used to drill through the weathered rock stratum using Triple tube core barrels as per the guidelines of IS: 6926-1196 because of its ability to retain the higher quality rock samples. A core barrel and NX-sized bits were used for drilling and recovering rock cores. Recovered rock cores were numbered serially and preserved in good-quality core boxes as specified in IS: 4078-1980. Rock core recovery and Rock Quality Designation (RQD) were computed for every run length. Water was used as the drilling fluid. The ratio of the total length of rock pieces collected to the length drilled, expressed as a percentage, and known as core recovery, was recorded. To obtain RQD (Rock Quality Designation), only those pieces of rock that were 10 cm and longer were measured for the total length. The above length divided by the length drilled, expressed as a percentage, was recorded as RQD. The Core Recovery and RQD values were assigned based on the Standard procedure given in IS: 11315 (Part 11).

Recovered cores were measured, and percentage core recovery and Rock Quality Designation (RQD) have been calculated as follows:

$$\text{Core Recovery in \%} = \frac{\text{Length of core} \times 100}{\text{Length of run}}$$

$$\text{RQD in \%} = \frac{\text{Length of core in pieces of 101.6 mm (4 inches and above)} \times 100}{\text{Length of run}}$$

The percentage of core recovery and RQD for each core drill run has been mentioned in respective bore logs.

Rock classification in terms of weathering, state of fractures & strength was carried out in the following manner, as tabulated below:

WEATHERING CLASSIFICATION AS PER IS 4464:2020, CLAUSE 3.6.2

ITEM	DESCRIPTION	GRADE
Fresh	No visible sign of rock material weathering, perhaps slightly discolouration on major discontinuity surfaces.	W_1
Slightly Weathered	Discolouration indicates weathering of rock material and discontinuity surfaces. All the rock material may be discoloured by weathering and may be somewhat weaker externally than in its fresh condition.	W_2
Moderately Weathered	Less than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or discoloured rock is present either as a discontinuous framework or as core stones.	W_3
Highly Weathered	More than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or discoloured rock is present either as a discontinuous framework or as core stones.	W_4
Completely Weathered	All rock material is decomposed and/or disintegrated to soil. The original mass structure is still largely intact.	W_5

ROCK QUALITY & FRACTURE FREQUENCY AS PER IS 4464:2020, CLAUSE 3.6.2

Description of Rock Quality	*RQD Percent*	*Fracture Frequency Per m*
Very Poor	0 - 25	Over 15
Poor	25 - 50	15 - 8
Fair	50 - 75	8 - 5
Good	75 - 90	5 - 1
Excellent	90 - 100	Less than 1

STRENGTH OF ROCK AS PER IS 4464:2020, CLAUSE 3.6.2

Table 1 Strength of Intact Rock Material

(Clause 3.6.2.3)

Sl No.	Qualitative Description	Compressive Strength (Mpa)
(1)	(2)	(3)
i)	Extremely Weak	<1
ii)	Very Weak	1 - 5
iii)	Weak	5 - 25
iv)	Medium Strong	25 - 50
v)	Strong	50 - 100
vi)	Very Strong	100 - 250
vii)	Extremely Strong	>250

Terms in first column (*) redefined according to ISO 14689

2.1.5 COLLECTION OF GROUND WATER SAMPLES:

One representative water sample from each borehole was collected after 24 hours of completing the borehole if water table met within the investigated depth.

NOTE ON GROUNDWATER TABLE RECORD:

- Groundwater table observation in geotechnical report is predominantly to arrive at foundation design criteria and shall not be construed as design guidelines for the design of dewatering systems
- The groundwater level indicated in the bore logs is specific to the duration of investigation and intensity of the monsoon rains during the time of investigation. Hence, the level shall be taken as guidelines only to plan the investigation for the dewatering system
- No foundation excavation or basement excavations if anticipated within the groundwater table zone shall be carried out without implementing groundwater lowering schemes

2.2 LABORATORY TESTING:

2.2.1 LABORATORY TESTS ON SOIL:

As per the standard codes of practices, the applicable test for disturbed and undisturbed samples on selected samples is carried out in the laboratory and presented in this report.

TEST DESCRIPTION	STANDARD REFERENCE
Moisture content	IS 2720 PART 2
Specific gravity	IS 2720 PART 3, SEC-1
Grain size analysis (wet sieve & hydrometer)	IS 2720 PART 4
Liquid limit & plastic limit	IS 2720 PART 5
Plasticity Index	IS 2720 PART 5
Shrinkage limit	IS 2720 PART 6
Soil Classification	Derived from the laboratory test results
Differential free swell index test	IS 2720 PART 40
Consolidation test	IS 2720 PART 15
Triaxial- unconsolidated undrained test	IS 2720 PART 11
Unconfined compressive strength of soil	IS 2720 PART 10
Chemical analysis pH, sulphate & chloride	IS 2720 PART 26 & 27
Chemical analysis in water samples	IS 3025 PARTS 11 & 32, APHA

2.2.1 MOISTURE CONTENT (IS 2720 PART 2):

The test procedure conforms to IS: 2720 (Part 2). A moisture cup is loosely filled with soil samples and weighed with a lid. It is then kept over the oven with the lid removed and maintained at the temperature of the oven at 110°C for 24 hours. The lid of the container is then replaced, and the dry weight is found. The percentage of water content has been calculated using the formula.

$$W = \frac{(W2 - W3) \times 100}{(W3 - W1)}$$

Where W2 = Weight of container with wet soil, in g.

W3 = Weight of container with dry soil, in g.

W1 = Weight of container with lid, in g.

W = Moisture Content (%)

2.2.2 DRY DENSITY AND BULK DENSITY:

For the determination of bulk density and dry density, a sample of known volume 'V' was extracted from the undisturbed sampling tube, and its bulk weight 'W' was noted down. Moisture content 'Wn' was determined by oven drying.

The bulk density and dry density were determined by the following equation:

Bulk density (γ_b) = W/V

Dry density ((γ_d) = γ_b /(1+Wn)

2.2.3 GRAIN SIZE ANALYSIS:

2.2.3.1 GRAIN SIZE ANALYSIS (IS 2720 PART 4):

The testing procedure generally conforms to IS: 2720 (Part 4). Both sieve and hydrometer analyses were carried out.

2.2.3.2 SIEVE ANALYSIS (IS 2720 PART 4):

Take a 100g dry sample and wash using an IS 75-micron sieve. The proportion of soil samples retained on a 75-micron I.S sieve is oven-dried, weighed, and recorded as per IS 2720. I.S. sieves are selected and arranged as shown in the table (as per IS 2720) IS Sieves (4.75mm, 2mm, 425 μ, 75 μ). The soil sample is separated into various fractions by sieving through the above sieves placed in the mentioned order. The weight of soil retained on each sieve is recorded. The moisture content of soil, if above 5% is to be measured and recorded. No particle of soil sample shall be pushed through the sieves.

2.2.3.3 HYDROMETER ANALYSIS (IS 2720 PART 4):

50g of soil passing 75μ IS sieve was mixed with 3.3g sodium hexa-meta-phosphate and 0.7g sodium carbonate, transferred to a 1000 ml measuring cylinder, and made up to exactly 1000 ml with distilled water, and then shaken thoroughly. The hydrometer was immersed to a depth slightly below its floating position and allowed to float freely. Hydrometer readings are taken at 10, 20, 30, and 45 sec, then at 1, 2, 4, 8, 15, and 30 min, and then at 1, 2-, 4-, 8- and 24-hour intervals.

The diameter of the particle in suspension at any sampling time 't' is calculated using the "Stokes" formula, and the percentage finer is calculated. The semi-log graph was then plotted with grain size (mm) on the 'x' axis and percentage finer on the 'y' axis. The graph represents the respective percentages of various particle sizes (clay, silt, sand, gravel wherever encountered), etc.

2.2.4 SPECIFIC GRAVITY (IS 2720 PART 3, SEC-1):

The test procedure has been followed as per IS: 2720 (Part 3 / Section 1) for fine-grained soils. The specific gravity of soil solids is defined as the weight of a given volume of soil solids to the weight of an equal volume of distilled water. Specific gravity is found out using a standard specific gravity bottle of 50 ml capacity by weighing an empty bottle (W1); bottle + dry soil (W2); bottle + dry soil + water (W3); and bottle + water (W4).

$$\text{The specific gravity of soil, } G = \frac{(W2 - W1)}{(W2 - W1) - (W3 - W4)}$$

2.2.5 LIQUID LIMIT (LL) (IS 2720 PART 5):

Testing was done per IS 2720 (Part 5) using Casagrande's apparatus. Put 120 g of air-dried soil, passed through 425 microns IS sieve, into an evaporating dish. Add distilled water into the soil and mix it thoroughly to form a uniform paste. (The paste shall have a consistency requiring 30 to 35 drops of cup to cause the necessary closure of the standard groove. Place a portion of the paste in the cup of the Liquid Limit device and spread it with a few strokes of a spatula. Trim it to a depth of 1 cm at the point of maximum thickness and return the excess soil to the dish.

Using the grooving tool, cut a groove along the center line of soil Pat in the cup so that a clean, sharp groove of proper dimension (11 mm wide at the top, 2 mm at the bottom, and 8 mm deep) is formed. Lift and drop the cup by turning the crank at the rate of two revolutions per second until

the two halves of soil cake meet each other for a length of about 13 mm by flow only, and record the number of blows, N.

Take a representative portion of soil from the cup for moisture content determination. Repeat the test with different moisture contents at least three more times such that the number of drops required to close the groove shall be not less than 15 and more than 35.

2.2.6 PLASTIC LIMIT (IS 2720 PART 5):

About 15 g of oven-dried soil passing through a 425μ sieve was mixed with enough water to become plastic enough to be easily shaped into a ball. A portion of this ball was rolled on a glass plate with fingers with just sufficient pressure to roll the mass into a thread of uniform diameter of 3mm, and then the soil was re-moulded again into a ball. This process of rolling and re-moulding was repeated until the thread started crumbling at a diameter of 3mm. The water content of such threads represents the plastic limit.

Plasticity Index: It is difference between liquid limit and plastic limit (i.e.) PI = LL - PL.

2.2.7 DIFFERENTIAL FREE SWELL (IS 2720 PART 40):

The test procedure conforms to IS 2720 Part XL. Normally, 10 gm of soil passing a 425μ sieve is taken. However, for highly swelling soils (like Black cotton soil, Bentonite, etc.) containing clay mineral "montmorillonite," 5gm soil or jars of 250ml capacity may be used. Two graduated cylinders of 100ml capacity are taken. One cylinder is filled with Kerosene oil and the other with distilled water, each up to about 80-90 ml capacity. Entrapped air is removed by shaking well and stirring by a glass rod. The soil in both jars is allowed to settle for a sufficient time (not less than 24 hours) for the soil sample to attain the equilibrium state of volume without any further changes. The volume of soil in both the jars is noted. The soil level in distilled water is read off as "Differential free swell."

$$\text{DFS (\%)} = \frac{(R_1 - R_2) \times 100}{R_2}$$

Where R_1 = reading in distilled water at the end of 24 hours

R_2 = reading in kerosene at the end of 24 hours

2.2.8 CHEMICAL TEST ON SOIL AND WATER SAMPLE (IS 2720 PARTS 26 & 27 AND IS 3025 PARTS 11 & 32, APHA):

Chemical testing may be required to determine the amount of chemical substances, including organic matter, in samples of soil in order to assist in, for example, the design of structures and pipelines to resist chemical attack and corrosion. Testing is generally performed by IS: 2720, but the different parts of the method are described below.

TEST PROCEDURE

a) Organic Matter in Soils: Samples are tested according to IS 2720 (Part-22). Samples are dried at 50°C, weighed, ignited in a muffle furnace at 440° (±25°) C, then weighed again. The mass that is lost as a proportion of the dry mass is deemed to be the organic content.

b) Total Sulphate Content in Soils: Samples are tested according to IS 2720 (Part 27). The dried soil is extracted with a 10% solution of hydrochloric acid. The extract is adjusted to a slightly alkaline pH with ammonia, and then a barium chloride solution is added to precipitate the sulphate. The barium sulphate precipitate is collected by filtration, washed, dried, and weighed. The mass of barium sulphate recovered is used to calculate the sulfate content of the original soil.

c) Water Soluble Sulphate Content of Soil Samples is tested according to IS 2720 (Part 27). Dry soil is extracted with distilled water (2:1 soil-to-water ratio by weight) with agitation for at least 16 hours. The resulting soil suspension is filtered and treated as above for the total sulphate content. The solubility of calcium sulfate in water is limited at neutral pH, and soils with levels above approximately 2500 mg/kg sulfate (0.25%) will give a false-low result. The soil-to-water extraction ratio may need to be increased.

d) pH Value in Soils: Samples are tested according to IS: 2720 (Part 26). The soil sample (30 ± 0.1g) is extracted with 75 mL of distilled water and the pH of the resulting suspension is measured with a calibrated (by means of Standard buffer solution) pH meter.

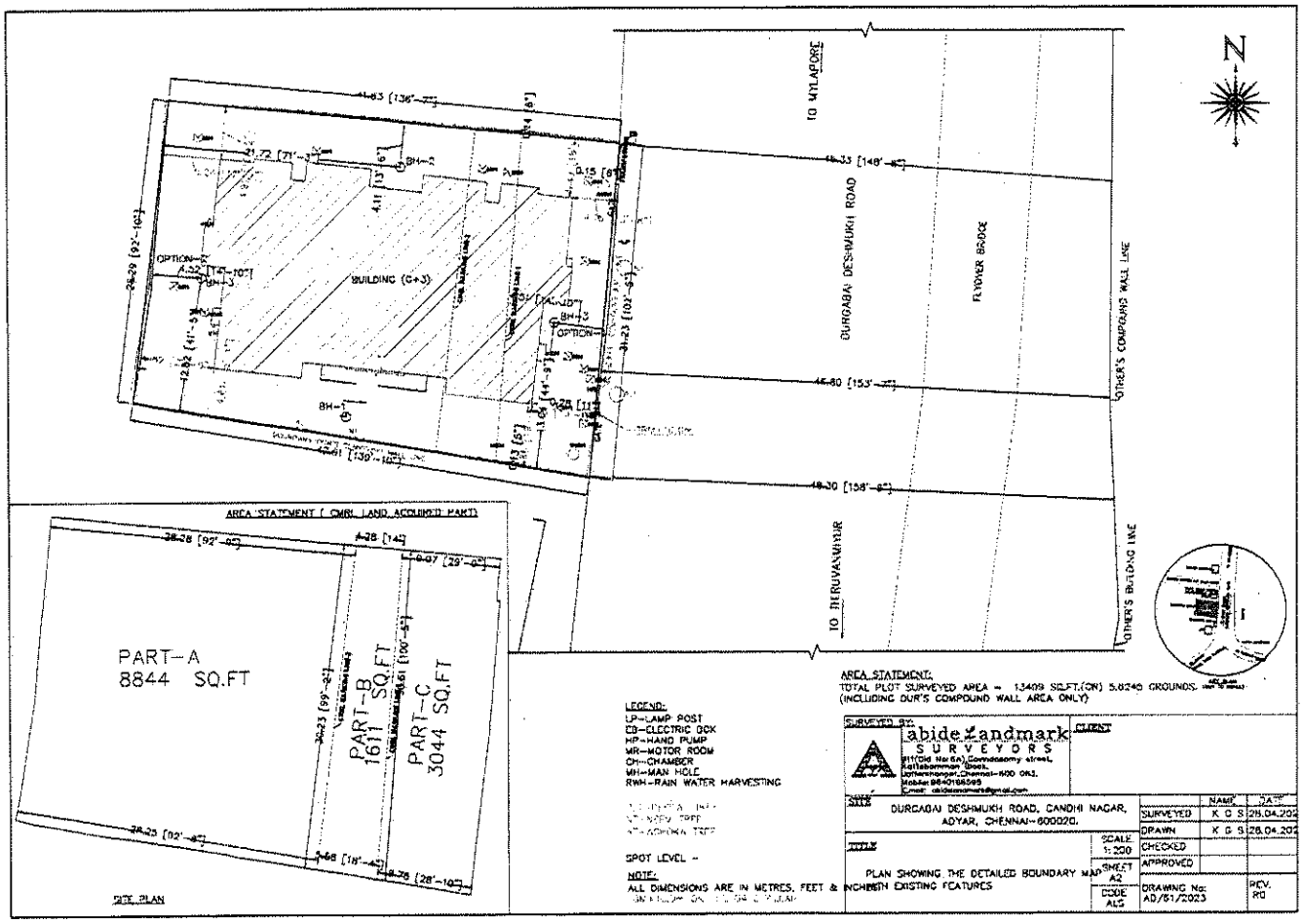
e) Chloride Content in Soils: For the water-soluble content, soil samples are extracted with a volume of water equal to twice the mass of the soil. The extract is filtered and acidified with a small amount of nitric acid. Standardized silver nitrate solution is then added to precipitate the chloride as its silver salt. The amount of precipitated silver remaining in solution is then determined by titration. An acid-soluble version of the test is also available, with the initial extraction being with nitric acid instead of water.

f) Chlorides in Water: Pipette out 100 ml of sample or a suitable portion diluted to 100ml into 250ml Erlenmeyer flask. Add 1 mL of 5% potassium chromate solution. Titrate with standard silver nitrate solution to a pinkish-yellow endpoint. Standardize silver nitrate solution and establish reagent blank value by titration method

g) Sulphates in Water: Measure 100 ml of sample, or a suitable portion of 100ml, and pour it into an Erlenmeyer flask. Add 20ml of Buffer solution, and while stirring, add a spoonful of BaCl2 crystals and begin the timer immediately.

2.3 SUMMARY:

- *THE LOCATIONS OF THE FIELD INVESTIGATION BOREHOLES ARE SHOWN IN SITE PLAN GIVEN IN FIG.2.0.*
- *THE AVERAGE SUB SOIL PROFILES ENCOUNTERED AT EACH LOCATION ALONG WITH THEIR CLASSIFICATION AND ENGINEERING PROPERTIES ARE PRESENTED IN FIGURE 2.01 TO 2.03*
- *THE CROSS-SECTION PROFILE IS PRESENTED IN FIGURE 2.04*
- *THE LABORATORY TEST RESULTS ARE PRESENTED IN TABLE. 2.01 TO 2.03*
- *THE GRAIN SIZE DISTRIBUTION GRAPHS ARE PRESENTED IN 2.05 TO 2.07*
- *THE HYDROMETER ANALYSIS GRAPHS ARE PRESENTED IN 2.08 & 2.09*
- *THE ROCK TEST RESULTS ARE PRESENTED IN TABLE 2.04*
- *THE CHEMICAL TEST RESULTS ARE PRESENTED IN TABLE 2.05 TO 2.07*


TO MYLAPORE
TO BESANT NAGAR
BURGABAI DESHMUKH ROAD
FLYOVER BRIDGE
OTHER'S COMPOUND WALL LINE
OTHER'S BUILDING LINE
BUILDING (G+3)
OPTION-B
OPTION
BH-1
BH-2
BH-3
SMH-1
SMH-2
SMH-3
41.83 [136'-7"]
41.72 [71'-]
48.33 [148'-6"]
45.60 [153'-]
48.30 [158'-6"]
28.29 [92'-10"]
N
AREA STATEMENT (CMDA LAND ACCUIRED PART)
PART-A
8844 SQ.FT
PART-B
1611 SQ.FT
PART-C
3044 SQ.FT
28.28 [92'-9"]
4.28 [14']
9.07 [29'-9"]
30.23 [99'-2"]
30.61 [100'-5"]
28.25 [92'-8"]
4.88 [16'-0"]
8.78 [28'-10"]
SITE PLAN
LEGEND:
LP-LAMP POST
EB-ELECTRIC BOX
HP-HAND PUMP
MR-MOTOR ROOM
CH-CHAMBER
MH-MAN HOLE
RWH-RAIN WATER HARVESTING
SPOT LEVEL -
NOTE:
ALL DIMENSIONS ARE IN METRES, FEET & INCHES
AREA STATEMENT:
TOTAL PLOT SURVEYED AREA = 13409 SQ.FT.(3N) 5.6240 GROUNDS.
(INCLUDING DUR'S COMPOUND WALL AREA ONLY)
SURVEYED BY:
abide Landmark
SURVEYORS
CLIENT
SITE
DURGABAI DESHMUKH ROAD, GANDHI NAGAR, ADYAR, CHENNAI-600020.
TITLE
PLAN SHOWING THE DETAILED BOUNDARY MAP
SCALE 1:200
SHEET A2
CODE ALS
NAME
DATE
SURVEYED
K. G. S
26.04.202
DRAWN
K. G. S
26.04.202
CHECKED
APPROVED
DRAWING No: AD/61/2023
REV. R0

GEOMARINE
THE SPIRIT OF ENGINEERING

SITE INVESTIGATION RECORD

BORE HOLE No.	BH-01						
SHEET	1	OF	3				
PROJECT NAME	PROPOSED CONSTRUCTION OF A HIGH RISE RESIDENTIAL BUILDING			DIA OF BORE HOLE	150mm	✓	
					NX		
LOCATION	Ist Main Road, Gandhi Nagar, Adyar	MACHINE No.	Winch Operated SPT	CHAINAGE	-	BORE START DATE	17/02/2025
STRUCTURE	Stilt + 9 Upper Floors	DRILLING METHOD	Rotary	CO-ORDINATES	N -	BORE END DATE	18/02/2025
JOB CODE	GT-2942	FLUSHING MEDIUM	Bentonite		E -	TOTAL DRILL DAYS	2

Depth below E.G.L. (m)	Drilling progress per metre: Date	Time: Hr.	Time: Min.	Type of Drill Bit (SC / TCB / DB)	Core Details: Total Core Recovery %	Core Details: R.Q.D %	SPT Details: Blows/cm. 0-15	SPT Details: Blows/cm. 15-30	SPT Details: Blows/cm. 30-45	SPT "N" Value	Sample Details: Depth	Sample Details: Type	Sample Details: RL (m)	Layer Data: Legend	Layer Data: No	Layer Data: Depth	Layer Data: Geotechnical Description
																	Trial Pit Up to 1.0m to Initiate Drilling Operation, Sub Soil is Boulders With Sand & Clay Mixture
1	17/02/2025	11	03	SC	-	-	4	4	8	12	1.25	SS	-1.25				
		To									1.70						
		11	07												L1	2.00	Brown,Moist,Stiff,Silty CLAY (CI) Lean Clay of Medium Plasticity
2		11	22				-	-	-	-	2.00	UDS	-2.0				
		To		SC	-	-											
		11	23														Brown,Silty Clay With Sand Mixture
3							10	11	13	24	3.00	SS	-3.0		L2	3.00	
		11	33														
		To		SC	-	-					3.45						Brown,Moist,Poorly Graded,Fine & Medium Grains Sand,Medium Dense, Silty SAND (SM)
		11	34												L3	4.00	
4							2	3	3	6	4.00	SS	-4.0				
		11	46								4.45						
		To		SC	-	-											
		11	47														Grey,Moist,Poorly Graded,Fine & Medium Grians Sand,Loose,Silty SAND (SM)
5							3	5	5	10	5.00	SS	-5.0				
		11	56								5.45						
		To		SC	-	-											
		11	57												L4	6.00	
6							1	1	2	3	6.00	SS	-6.0				
		12	04								6.45						
		To		SC	-	-											
		12	10														Grey,Moist,Poorly Graded,Fine & Medium Grains Sand,Very Loose,Silty SAND (SM)
7							4	6	7	13	7.50	SS	-7.5		L5	7.50	
		12	25								7.95						
		To		SC	-	-											
		12	26														Grey,Brown Grey,Moist,Poorly Graded, Fine & Medium Grains Sand,Loose & Medium Dense,Silty SAND (SM) & Poorly Graded SAND - Silty SAND (SP-SM) @ Times
9							3	4	5	9	9.00	SS	-9.0				
		12	47								9.45						
		To		SC	-	-											
10		12	48														

CS - Core Sample	DS - Disturbed Sample	LOGGED	K. Loganathan	PROJECT SITE DETAILS		REMARKS
SS - Split Spoon Sample	SC - Soil Cutter	DATE	17/02/2025	GROUND LEVEL (m)	0.00	
UDS- Undisturbed Sample	TCB - Tungsten Carbide Bit	CHECKED	G.Sharmila	WATER TABLE (m)	3.10	
WS - Wash Sample	DB - Diamond Bit	DATE	11/03/2025	CASING DEPTH (m)	0.00	

GEOMARINE
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SITE INVESTIGATION RECORD

BORE HOLE No.	BH-01		
SHEET	2	OF	3
DIA OF BORE HOLE	150mm ✓	NX ✓	

PROJECT NAME	PROPOSED CONSTRUCTION OF A HIGH RISE RESIDENTIAL BUILDING					BORE START DATE	17/02/2025
LOCATION	Ist Main Road, Gandhi Nagar, Adyar	MACHINE No.	Winch Operated SPT	CHAINAGE	-		
STRUCTURE	Stilt + 9 Upper Floors	DRILLING METHOD	Rotary	CO-ORDINATES	N -	BORE END DATE	18/02/2025
JOB CODE	GT-2942	FLUSHING MEDIUM	Bentonite		E -	TOTAL DRILL DAYS	2

Depth below E.G.L. (m)	Drilling progress per metre: Date	Time: Hr.	Time: Min.	Type of Drill Bit (SC / TCB / DB)	Core Details: Total Core Recovery %	Core Details: R.Q.D %	SPT Details: Blows/cm. 0-15	15-30	30-45	SPT "N" Value	Sample Details: Depth	Type	RL (m)	Layer Data: Legend	No	Depth	Geotechnical Description
							8	11	19	30	10.50	SS	-10.5		L6	10.5	Medium Dense,Silty SAND (SM) & Poorly Graded SAND - Silty SAND (SP-SM) @ Times
11	17/02/2025	14	07 To 14 08	SC	-	-					10.95						
12							7	12	20	32	12.00	SS	-12.0				Brown Grey,Moist,Poorly Graded,Fine & Medium Grains Sand,Medium Dense & Dense,Silty SAND (SM)
											12.45						
13		14	32 To 14 34	SC	-	-											
14							18	27	36	63	14.00	SS	-14.0		L7	14.0	
											14.45						
15		15	25 To 15 28	SC	-	-											Grey Brown,Moist,Poorly Graded,Fine & Medium Grains Sand,Very Dense, Sitly SAND (SM)
16							21	11Cm Penet for 65Blows		>100	16.00	SS	-16.0		L8	16.0	
											16.26						
17		16	17 To 16 31	DB	0	0									L9	17.5	Grey Brown,Moist,Fine to Coarse Grain Sand Size Weathered Formation With Gravel Size Particles,Very Dense,Disintegrated Hypersthene Granite Rock - Residual Soil to Grade W5 Formation
							39	10Cm Penet for 60Blows		>100	17.50	CS	-17.5				
18											17.75						
	18/02/2025	09	54 To 10 21	DB	5	0									L10	19.0	Grey Brown,Medium to Coarse Grain Structure,Highly to Completely Fractured,No Solid Core Recovered,Completely Weathered Rock - Grade W5 Formation Fractured & Weathered Hypersthene Granite Rock
19						-	-	-	-	-	19.00	CS	-19.0				
		10	37 To 11 17	DB	15	0											Offwhite Brown,Grey,Medium & Coarse Grain Structure,Highly Fractured,No Solid Core Recovered,Highly Weathered Rock - Grade W4 Formation
20																	

CS - Core Sample	DS - Disturbed Sample	LOGGED	K. Loganathan	PROJECT SITE DETAILS	REMARKS
SS - Split Spoon Sample	SC - Soil Cutter	DATE	18/02/2025	GROUND LEVEL (m) 0.00	
UDS- Undisturbed Sample	TCB - Tungsten Carbide Bit	CHECKED	G.Sharmila	WATER TABLE (m) 3.10	
WS - Wash Sample	DB - Diamond Bit	DATE	11/03/2025	CASING DEPTH (m) 0.00	

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SITE INVESTIGATION RECORD

BORE HOLE No.	BH-01						
SHEET	3	OF	3				
PROJECT NAME	PROPOSED CONSTRUCTION OF A HIGH RISE RESIDENTIAL BUILDING			DIA OF BORE HOLE	150mm		
					NX	✓	
LOCATION	1st Main Road, Gandhi Nagar, Adyar	MACHINE No.	Winch Operated SPT	CHAINAGE	-	BORE START DATE	17/02/2025
STRUCTURE	Stilt + 9 Upper Floors	DRILLING METHOD	Rotary	CO-ORDINATES	N -	BORE END DATE	18/02/2025
JOB CODE	GT-2942	FLUSHING MEDIUM	Bentonite		E -	TOTAL DRILL DAYS	2

Depth below E.G.L. (m)	Drilling progress per metre: Date	Time: Hr.	Time: Min.	Type of Drill Bit (SC / TCB / DB)	Core Details: Total Core Recovery %	Core Details: R.Q.D %	SPT Details: Blows/cm. 0-15	SPT Details: Blows/cm. 15-30	SPT Details: Blows/cm. 30-45	SPT "N" Value	Sample Details: Depth	Sample Details: Type	Sample Details: RL (m)	Layer Data: Legend	Layer Data: No	Layer Data: Depth	Geotechnical Description
20	18/02/2025						-	-	-	-	20.50	CS	-20.5	+ + + + + + + + +	L11	20.5	Offwhite Brown,Grey,Medium & Coarse Grain Structure,Highly Weathered Rock - Grade W4 Formation
21		Drilling Time 104mins		DB	79	53								+ + + + + + + + +			Grey,Brown Grey Shades @ Fractures, Medium Fractured,Weathered & Discoloured Partly,Moderately to Slightly Weathered Rock - Grade W3 & W2 Formation Hypersthene Granite Rock/ Charnockite
22		15 05 To 16 26		DB	90	38	-	-	-	-	22.00	CS	-22.0	+ + + + + + + + +			
23							-	-	-	-	23.00	CS	-23.0	+ + +	L12	23.0	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

CS - Core Sample	DS - Disturbed Sample	LOGGED	K. Loganathan	PROJECT SITE DETAILS	REMARKS
SS - Split Spoon Sample	SC - Soil Cutter	DATE	18/02/2025	GROUND LEVEL (m) 0.00	
UDS- Undisturbed Sample	TCB - Tungsten Carbide Bit	CHECKED	G.Sharmila	WATER TABLE (m) 3.10	
WS - Wash Sample	DB - Diamond Bit	DATE	11/03/2025	CASING DEPTH (m) 0.00	

Borehole terminated at 23 m depth below E.G.L

FIG.2.01 Sub Soil Profile at BH-01 Location

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SITE INVESTIGATION RECORD

BORE HOLE No.	BH-02		
SHEET	1	OF	3
DIA OF BORE HOLE	150mm ✓		
	NX		

PROJECT NAME	PROPOSED CONSTRUCTION OF A HIGH RISE RESIDENTIAL BUILDING					BORE START DATE	11/02/2025
LOCATION	Ist Main Road, Gandhi Nagar, Adyar	MACHINE No.	Winch Operated SPT	CHAINAGE	-		
STRUCTURE	Stilt + 9 Upper Floors	DRILLING METHOD	Rotary	CO-ORDINATES	N -	BORE END DATE	12/02/2025
JOB CODE	GT-2942	FLUSHING MEDIUM	Bentonite		E -	TOTAL DRILL DAYS	2

Depth below E.G.L. (m)	Drilling progress per metre: Date	Time: Hr.	Time: Min.	Type of Drill Bit (SC / TCB / DB)	Core Details: Total Core Recovery %	Core Details: R.Q.D %	SPT Details: Blows/cm. 0-15	15-30	30-45	SPT "N" Value	Sample Details: Depth	Type	RL (m)	Layer Data: Legend	No	Depth	Geotechnical Description
																	Trial Pit Up to 1.1m to Initiate Drilling Operation, Sub Soil is Boulders With Sand & Clay Mixture
1	11/02/2025	09	26	SC	-	-	3	3	5	8	1.25 / 1.70	SS	-1.25		L1	2.00	Brown,Moist,Stiff,Silty CLAY (Cl) Lean Clay of Medium Plasticity
		To															
2		09	27	SC	-	-	3	6	8	14	2.00 / 2.45	SS	-2.0		L2	3.00	Grey Brown,Moist,Stiff,Silty CLAY (CH) High Plasticity Clay
		10	00														
		To															
3		10	04	SC	-	-	-	-	-	-	3.00	UDS	-3.0		L3	4.00	Brown,Clay With Sand Lenses
		10	30														
		To															
4		10	32	SC	-	-	1	2	3	5	4.00 / 4.45	SS	-4.0				
		10	48														
		To															
5		10	49	SC	-	-	1	1	3	4	5.00 / 5.45	SS	-5.0				
		11	05														
		To															
6		11	09	SC	-	-	1	1	1	2	6.00 / 6.45	SS	-6.0				Grey,Brown Grey,Moist,Poorly Graded, Fine & Medium Grains Sand,Very Loose & Loose,Silty SAND (SM)
		11	29														
		To															
7		11	30	SC	-	-	5	4	7	11	7.50 / 7.95	SS	-7.5		L4	7.50	
		11	49														
		To															
8		11	50	SC	-	-											
9							2	4	8	12	9.00 / 9.45	SS	-9.0				Grey,Moist,Poorly Graded,Fine & Medium Grains Sand,Medium Dense, Poorly Graded SAND - Silty SAND (SP-SM)
		12	10														
		To															
10		12	11	SC	-	-											

CS - Core Sample	DS - Disturbed Sample	LOGGED	K. Loganathan	PROJECT SITE DETAILS	REMARKS
SS - Split Spoon Sample	SC - Soil Cutter	DATE	11/02/2025	GROUND LEVEL (m) 0.00	
UDS- Undisturbed Sample	TCB - Tungsten Carbide Bit	CHECKED	G.Sharmila	WATER TABLE (m) 3.10	
WS - Wash Sample	DB - Diamond Bit	DATE	11/03/2025	CASING DEPTH (m) 0.00	

GEOMARINE
THE SPIRIT OF ENGINEERING

SITE INVESTIGATION RECORD

BORE HOLE No.	BH-02
SHEET	2 OF 3
DIA OF BORE HOLE	150mm ✓ / NX ✓
BORE START DATE	11/02/2025
BORE END DATE	12/02/2025
TOTAL DRILL DAYS	2

PROJECT NAME	PROPOSED CONSTRUCTION OF A HIGH RISE RESIDENTIAL BUILDING						
LOCATION	1st Main Road, Gandhi Nagar, Adyar	MACHINE No.	Winch Operated SPT	CHAINAGE	-		
STRUCTURE	Stilt + 9 Upper Floors	DRILLING METHOD	Rotary	CO-ORDINATES	N	-	
JOB CODE	GT-2942	FLUSHING MEDIUM	Bentonite		E	-	

Depth below E.G.L. (m)	Drilling progress per metre: Date	Time: Hr.	Time: Min.	Type of Drill Bit (SC / TCB / DB)	Core Details: Total Core Recovery %	Core Details: R.Q.D %	SPT Details: Blows/cm. 0-15	15-30	30-45	SPT "N" Value	Sample Details: Depth	Type	RL (m)	Layer Data: Legend	No	Depth	Geotechnical Description
11	11/02/2025	12	31 To 12 32	SC	-	-	7	8	11	19	10.50 / 10.95	SS	-10.5				Grey,Moist,Poorly Graded,Fine & Medium Grains Sand,Medium Dense, Poorly Graded SAND - Silty SAND (SP-SM)
12							10	14	17	31	12.00 / 12.45	SS	-12.0		L5	12.0	
13		14	16 To 14 19	SC	-	-											Brown Grey,Moist,Poorly Graded,Fine & Medium Grains Sand,Dense,Silty SAND (SM)
14							33	15Cm Penet for 60Blows		>100	14.00 / 14.30	SS	-14.0		L6	14.0	
15		14	55 To 15 06	SC	-	-								+ + +			Grey to Yellow Brown,Moist,Fine & Medium Grains Sand Size Weathered Formation With Gravel Size Traces, Very Dense,Disintegrated Granite Rock Formation - Residual Soil to Grade W5 Formation
16								5Cm Penet for 60Blows		>100	16.00 / 16.05	SS	-16.0	+ + +	L7	16.1	
17		15	45 To 16 01	SC	-	-		SPT Hammer Rebounded		>100	17.00 / 17.00	WS	-17.0	+ + +	L8	17.5	Grey Brown,Medium to Coarse Grain Sand Size Weathered Formation,Very Dense,Completely Weathered Rock - Grade W5 Formation Fractured & Weathered Hypersthene Granite Rock
18		16	30 To 17 03	DB	17	0	-	-	-	-	18.50	CS	-18.5	+ + +			Brown Grey,Offwhite Shades,Medium & Coarse Grain Structure,No Solid Core Recovered,Pieces of Rock Recovered, Highly Weathered Rock - Grade W4 Formation Fractured Hypersthene Granite Rock/ Charnockite
19	12/02/2025	10	00 To 10 40	DB	13	0											
20							-	-	-	-	20.00	CS	-20.0	+ + +	L9	20.0	

CS - Core Sample	DS - Disturbed Sample	LOGGED	K. Loganathan	PROJECT SITE DETAILS	REMARKS
SS - Split Spoon Sample	SC - Soil Cutter	DATE	12/02/2025	GROUND LEVEL (m) 0.00	
UDS- Undisturbed Sample	TCB - Tungsten Carbide Bit	CHECKED	G.Sharmila	WATER TABLE (m) 3.10	
WS - Wash Sample	DB - Diamond Bit	DATE	11/03/2025	CASING DEPTH (m) 0.00	

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SITE INVESTIGATION RECORD

BORE HOLE No.	BH-02	SHEET	3 OF 3		
PROJECT NAME	PROPOSED CONSTRUCTION OF A HIGH RISE RESIDENTIAL BUILDING			DIA OF BORE HOLE	150mm / NX ✓
LOCATION	Ist Main Road, Gandhi Nagar, Adyar	MACHINE No.	Winch Operated SPT	CHAINAGE	-
BORE START DATE	11/02/2025				
STRUCTURE	Stilt + 9 Upper Floors	DRILLING METHOD	Rotary	CO-ORDINATES	N -
BORE END DATE	12/02/2025				
JOB CODE	GT-2942	FLUSHING MEDIUM	Bentonite	CO-ORDINATES	E -
TOTAL DRILL DAYS	2				

Depth below E.G.L. (m)	Date	Time Hr.	Time Min.	Type of Drill Bit (SC / TCB / DB)	Total Core Recovery %	R.Q.D %	SPT Blows/cm 0-15	15-30	30-45	SPT "N" Value	Sample Depth	Type	RL (m)	Legend	No	Depth	Geotechnical Description
20–21.5	12/02/2025	Drilling Time 73mins		DB	67	19	-	-	-	-	21.50	CS	-21.5	+ + +	L10	21.5	Grey,Brown Shades @ Fractures, Highly Fractured,Medium & Coarse Grain Structure,Moderately Weathered Rock - Grade W3 Formation Hypersthene Granite Rock/ Charnockite
21.5–23	12/02/2025	14 To 15	12 To 40	DB	94	88	-	-	-	-	23.00	CS	-23.0	+ + +	L11	23.0	Grey,Medium & Coarse Grain Structure, Fractured @ Places,Very Strong to Extreme Strong,Fresh Rock Formation - Grade W1 Rock Hypersthene Granite Rock/ Charnockite

Depth scale: 21, 22, 23, 24, 25, 26, 27, 28, 29, 30

CS - Core Sample	DS - Disturbed Sample	LOGGED	K. Loganathan	PROJECT SITE DETAILS		REMARKS
SS - Split Spoon Sample	SC - Soil Cutter	DATE	12/02/2025	GROUND LEVEL (m)	0.00	
UDS- Undisturbed Sample	TCB - Tungsten Carbide Bit	CHECKED	G.Sharmila	WATER TABLE (m)	3.10	
WS - Wash Sample	DB - Diamond Bit	DATE	11/03/2025	CASING DEPTH (m)	0.00	

Borehole terminated at 23 m depth below E.G.L

FIG.2.02 Sub Soil Profile at BH-02 Location

GEOMARINE
THE SPIRIT OF ENGINEERING

SITE INVESTIGATION RECORD

BORE HOLE No.	BH-03		
SHEET	1	OF	3
DIA OF BORE HOLE	150mm ✓		
	NX		

PROJECT NAME	PROPOSED CONSTRUCTION OF A HIGH RISE RESIDENTIAL BUILDING							BORE START DATE	13/02/2025
LOCATION	Ist Main Road, Gandhi Nagar, Adyar	MACHINE No.	Winch Operated SPT	CHAINAGE	-				
STRUCTURE	Stilt + 9 Upper Floors	DRILLING METHOD	Rotary	CO-ORDINATES	N	-		BORE END DATE	15/02/2025
JOB CODE	GT-2942	FLUSHING MEDIUM	Bentonite		E	-		TOTAL DRILL DAYS	2

Depth below E.G.L. (m)	Drilling progress per metre: Date	Time: Hr.	Time: Min.	Type of Drill Bit (SC / TCB / DB)	Core Details: Total Core Recovery %	Core Details: R.Q.D %	SPT Details: Blows/cm. 0-15	SPT Details: Blows/cm. 15-30	SPT Details: Blows/cm. 30-45	SPT "N" Value	Sample Details: Depth	Sample Details: Type	Sample Details: RL (m)	Layer Data: Legend	Layer Data: No	Layer Data: Depth	Geotechnical Description
																	Trial Pit Up to 1.1m to Initiate Drilling Operation, Sub Soil is Boulders With Sand & Clay Mixture
1	13/02/2025	14	04	SC	-	-	4	6	8	14	1.25	SS	-1.25				
		To									1.70						
2		14	10				-	-	-	-	2.00	UDS	-2.0		L1	2.00	Brown,Moist,Stiff,Silty CLAY (CI) Medium Plasticity Clay Formation
		14	32	SC	-	-											
		To															
3		14	38				3	6	13	19	3.00	SS	-3.0		L2	3.00	Brown,Silty CLAY
		14	49	SC	-	-					3.45						
		To															
4		14	50				7	11	9	20	4.00	SS	-4.0				
		15	03	SC	-	-					4.45						
		To															Grey Brown,Grey,Moist,Poorly Graded, Fine & Medium Grains Sand,Medium Dense,Silty SAND (SM) & Poorly Graded SAND - Silty SAND (SP-SM)
5		15	04				3	6	6	12	5.00	SS	-5.0				
		15	16	SC	-	-					5.45						
		To															
6		15	17				1	1	1	2	6.00	*SS	-6.0		L3	6.00	
		15	33	SC	-	-					6.45						
		To															Sample Failed & Silty SAND
7		15	34														
							2	5	5	10	7.50	SS	-7.5		L4	7.50	
8		15	47								7.95						
		To		SC	-	-											Grey,Moist,Poorly Graded,Fine & Medium Grains Sand,Loose,Silty SAND (SM)
		15	48														
9							4	11	15	26	9.00	SS	-9.0		L5	9.00	
											9.45						
		16	06														Brown Grey,Moist,Poorly Graded,Fine & Medium Grains Sand,Medium Dense, Poorly Graded SAND - Silty SAND (SP-SM)
10		To		SC	-	-											
		16	07														

CS - Core Sample	DS - Disturbed Sample	LOGGED	K. Loganathan	PROJECT SITE DETAILS		REMARKS
SS - Split Spoon Sample	SC - Soil Cutter	DATE	13/02/2025	GROUND LEVEL (m)	0.00	
UDS- Undisturbed Sample	TCB - Tungsten Carbide Bit	CHECKED	G.Sharmila	WATER TABLE (m)	3.20	
WS - Wash Sample	DB - Diamond Bit	DATE	11/03/2025	CASING DEPTH (m)	0.00	

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SITE INVESTIGATION RECORD

BORE HOLE No.	BH-03		
SHEET	2	OF	3
DIA OF BORE HOLE	150mm ✓		
	NX ✓		

PROJECT NAME	PROPOSED CONSTRUCTION OF A HIGH RISE RESIDENTIAL BUILDING					BORE START DATE	13/02/2025
LOCATION	Ist Main Road, Gandhi Nagar, Adyar	MACHINE No.	Winch Operated SPT	CHAINAGE	-		
STRUCTURE	Stilt + 9 Upper Floors	DRILLING METHOD	Rotary	CO-ORDINATES	N -	BORE END DATE	15/02/2025
JOB CODE	GT-2942	FLUSHING MEDIUM	Bentonite		E -	TOTAL DRILL DAYS	2

Depth below E.G.L. (m)	Drilling progress per metre: Date	Time: Hr.	Time: Min.	Type of Drill Bit (SC / TCB / DB)	Core Details: Total Core Recovery %	Core Details: R.Q.D %	SPT Details: Blows/cm. 0-15	15-30	30-45	SPT "N" Value	Sample Details: Depth	Type	RL (m)	Layer Data: Legend	No	Depth	Geotechnical Description
11	13/02/2025	16	30	SC	-	-	10	12	20	32	10.50	SS	-10.5				
		To									10.95						
		16	31														
12							9	11	18	29	12.00	SS	-12.0				Brown Grey,Moist,Poorly Graded,Fine & Medium Grains Sand,Medium Dense, Poorly Graded SAND - Silty SAND (SP-SM) & Silty SAND (SM) @ Parts
											12.45						
13		17	03	SC	-	-											
		To															
		17	05														
14							13	20	23	43	14.00	SS	-14.0		L6	14.0	
											14.45						
15		09	35	SC	-	-											Brown Grey,Moist,Poorly Graded,Fine & Medium Grains Sand,Dense, Clayey Silty SAND (SC)/ Cemented Sand
		To															
		09	43														
16							50	15Cm Penet for 65Blows		>100	16.00	SS	-16.0		L7	16.0	
											16.30						
17	15/02/2025	10	17	SC	-	-											Grey Brown,Moist,Fine & Medium Grains Sand Size Weathered Formation With Gravel Size Traces, Very Dense,Disintegrated Granite Rock Formation - Residual Soil to Grade W5 Formation
		To															
		10	50														
							SPT Hammer Rebounded			>100	17.50	WS	-17.5		L8	17.5	
											17.50						
18		Drilling Time 107mins		DB	83	18											Grey,Brown Shades @ Fractures, Highly Fractured & Discoloured, Medium & Coarse Grain Structure, Moderately Weathered Rock - Grade W3 Formation Fractured Hypersthene Granite Rock/ Charnockite
19							-	-	-	-	19.00	CS	-19.0				
		14	25	DB	26	0											
20		To															
		15	14														

CS - Core Sample	DS - Disturbed Sample	LOGGED	K. Loganathan	PROJECT SITE DETAILS		REMARKS
SS - Split Spoon Sample	SC - Soil Cutter	DATE	15/02/2025	GROUND LEVEL (m)	0.00	(*F)-Sample Failed
UDS- Undisturbed Sample	TCB - Tungsten Carbide Bit	CHECKED	G.Sharmila	WATER TABLE (m)	3.20	
WS - Wash Sample	DB - Diamond Bit	DATE	11/03/2025	CASING DEPTH (m)	0.00	

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SITE INVESTIGATION RECORD

BORE HOLE No.	BH-03
SHEET	3 OF 3
DIA OF BORE HOLE	150mm / NX ✓
BORE START DATE	13/02/2025
BORE END DATE	15/02/2025
TOTAL DRILL DAYS	2

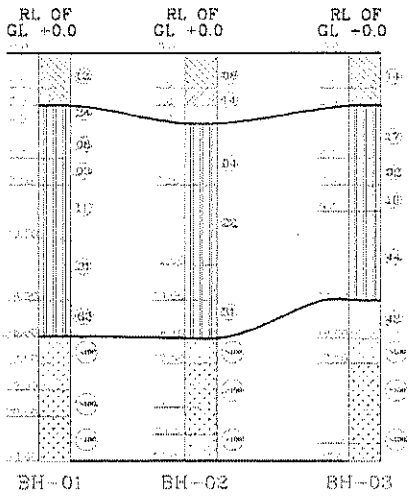
PROJECT NAME	PROPOSED CONSTRUCTION OF A HIGH RISE RESIDENTIAL BUILDING				
LOCATION	Ist Main Road, Gandhi Nagar, Adyar	MACHINE No.	Winch Operated SPT	CHAINAGE	-
STRUCTURE	Stilt + 9 Upper Floors	DRILLING METHOD	Rotary	CO-ORDINATES	N -
JOB CODE	GT-2942	FLUSHING MEDIUM	Bentonite		E -

Depth below E.G.L. (m)	Drilling progress per metre: Date	Time: Hr.	Time: Min.	Type of Drill Bit (SC / TCB / DB)	Core Details: Total Core Recovery %	Core Details: R.Q.D %	SPT Details: Blows/cm. 0-15	15-30	30-45	SPT "N" Value	Sample Details: Depth	Type	RL (m)	Layer Data: Legend	No	Depth	Geotechnical Description
21	15/02/2025	Drilling Time 84mins		DB	69	21	-	-	-	-	20.50	CS	-20.5	+ +			Grey,Brown Shades @ Fractures, Highly Fractured & Discoloured, Medium & Coarse Grain Structure, Moderately Weathered Rock - Grade W3 Formation Fractured Hypersthene Granite Rock/ Charnockite
22							-	-	-	-	22.00	CS	-22.0		L9	22.0	
		Drilling Time 58mins		DB	97	38								+ + + + + + + + + + + +			Grey,Brown Shades @ Fractures, Highly Fractured & Discoloured, Medium & Coarse Grain Structure, Moderately to Slightly Weathered Rock - Grade W3 to W2 Formation Fractured Hypersthene Granite Rock/ Charnockite
23							-	-	-	-	23.00	CS	-23.0		L10	23.0	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

CS - Core Sample	DS - Disturbed Sample	LOGGED	K. Loganathan	PROJECT SITE DETAILS	REMARKS
SS - Split Spoon Sample	SC - Soil Cutter	DATE	15/02/2025	GROUND LEVEL (m) 0.00	
UDS- Undisturbed Sample	TCB - Tungsten Carbide Bit	CHECKED	G.Sharmila	WATER TABLE (m) 3.20	
WS - Wash Sample	DB - Diamond Bit	DATE	11/03/2025	CASING DEPTH (m) 0.00	

Borehole terminated at 23 m depth below E.G.L

FIG.2.03 Sub Soil Profile at BH-03 Location



LEGEND

- SILTY CLAY (CI)
- Granite Rock – Residual Soil to Grade W5 Formation
- SILTY SAND (SM)
- Completely Weathered Rock – Grade W5
- Fresh Rock Formation – Grade W1 Rock
- Highly Weathered Rock – Grade W4 Formation
- Moderately to Slightly Weathered Rock – Grade W3 & W2 Formation
- Silty Clay (CH)
- Clay With Sand Lenses

FIG.No.2.1 CROSS SECTIONAL VARIATION OF SUB SOIL PROFILE THROUGH BH-01,BH-02,BH-03

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Phone No : 044-24481465, 044-24480305

LABORATORY TEST REPORT

GEOMARINE CONSULTANTS PVT LTD- TESTING LABORATORY

NO.11 2nd MAIN ROAD, KANNAPA NAGAR, CHENNAI-600041

TC-11416

DISCIPLINE/GROUP :MECHANICAL / SOIL AND ROCK
MATERIAL/PRODUCT TESTED :CLAY & SOIL
SAMPLE CONDITION :SATISFACTORY
LOCATION OF FACILITY :PERMANENT
ULR NUMBER :TC114102500000991F
CUSTOMER NAME & ADDRESS :M/s RAMANIYAM REALTORS LLP,
(DATA PROVIDED BY 14/67, 3RD MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI - 600020

SAMPLE IDENTIFICATION NUMBER: GMTL/SS/995/0225/BH-01(01-12)
TEST REPORT NUMBER: GMC0995_1
SAMPLE RECEIPT DATE: 19/02/2025
PERIOD OF TESTING: 03/03/2025 to 12/03/2025
SAMPLE SOURCE: CUSTOMER SUPPLIED
REPORT ISSUE DATE: 12/03/2025
PAGE NO.: 01

TABLE 2.01 TEST RESULTS FOR SOIL SAMPLES FROM BOREHOLE BH-01

LABORATORY SAMPLE NUMBER	DEPTH (m)	WATER CONTENT (%) AS PER IS 2720 (P-II) - 1973, RA-2020	LIQUID LIMIT (%) AS PER IS 2720 (P-V) - 1985, RA-2020	PLASTIC LIMIT (%) AS PER IS 2720 (P-V) - 1985, RA-2020	PLASTICITY INDEX (I_p= LL-PL)	SHRINKAGE LIMIT (%) AS PER IS 2720 (P-VI) - 1972, RA-2021	FREE SWELL INDEX (%) AS PER IS 2720 (P-XL) - 1977, RA-2021	SPECIFIC GRAVITY AS PER IS 2720 (P-III, SEC-1) - 1980, RA-2021	GRAIN SIZE ANALYSIS AS PER IS 2720 (P-IV) - 1985 (RA:2020)						CLASSIFICATION & IDENTIFICATION OF SOILS FOR GENERAL ENGINEERING PURPOSES (IS 1498 - 1970 RA 2021)								
									Gravel (%) (4.75mm)	Sand (%)			Silt (%)	Clay (%)	Position With Respect to A-Aline (as Per IS 1498 Fig 1.0 Plasticity Chart)	Group Letter Symbol (Fine Grain Soils)	D10 (mm)	D30 (mm)	D60 (mm)	Uniformity Co-Efficient $C_u=D_{60}/D_{10}$	Co-Efficient of Curvature $C_c=D_{30}^2/(D_{10}xD_{60})$	Group Letter Symbol (Gravely Soils)	Group Letter Symbol (Sandy Soils)
										Coarse (2.0 mm)	Medium (0.425 mm)	Fine (0.075mm)											
01	1.25	20	Low Quantity Sample For Testing				6	-	0.0	0.0	4.0	15.5	55.6	24.9	-	-	-	-	-	-	-	-	-
02	3.00	21	Low Quantity Sample For Testing																				
03	4.00	19	-	-	-	-	-	-	0.8	1.2	34.0	42.2	21.7		-	-	-	-	-	-	-	-	SM
04	5.00	19	-	-	-	-	-	-	0.0	0.4	45.5	41.8	12.2		-	-	-	-	-	-	-	-	SM
05	6.00	22	-	-	-	-	-	-	0.0	0.5	42.3	44.8	12.3		-	-	-	-	-	-	-	-	SM
06	7.50	20	-	-	-	-	-	-	0.0	0.8	48.0	41.9	9.3		-	-	-	-	-	-	-	-	SP-SM
07	9.00	18	-	-	-	-	-	-	2.2	5.3	41.7	38.4	12.4		-	-	-	-	-	-	-	-	SM
08	10.50	21	-	-	-	-	-	-	0.0	0.3	25.4	61.6	12.7		-	-	-	-	-	-	-	-	SM
09	12.00	18	-	-	-	-	-	-	0.0	1.0	19.8	61.3	17.8		-	-	-	-	-	-	-	-	SM
10.0	14.00	14	-	-	-	-	-	-	0.0	4.3	43.8	24.6	27.2		-	-	-	-	-	-	-	-	SM
11.0	16.00	20	-	-	-	-	-	-	7.2	1.9	17.0	37.4	36.5		-	-	-	-	-	-	-	-	SM
12.0	17.50	16	-	-	-	-	-	-	31.8	2.7	25.1	36.4	4.0		-	-	-	-	-	-	-	-	SP

** END OF REPORT**

Terms and Conditions
(1) The sample has been provided by the customer. Results apply to the sample as received
(2) Results relate only to the samples tested
(3) The tested sample will not be retained for more than 45 days from the date of issue of test report except in the case as required by the applicable regulations.
(4) The report shall not be reproduced except in full without approval of the laboratory
(5) Laboratory is not responsible for sampling.

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AUTHORISED BY
KARTHIKEYAN S N
(QUALITY MANAGER)

GEOMARINE
Phone No.: 044-24461485, 044-24480305

LABORATORY TEST REPORT

GEOMARINE CONSULTANTS PVT LTD- TESTING LABORATORY

NO.11 2nd MAIN ROAD, KANNAPA NAGAR, CHENNAI-600041

TC-11419

DISCIPLINE/GROUP :MECHANICAL / SOIL AND ROCK
MATERIAL/PRODUCT TESTED :CLAY & SOIL
SAMPLE CONDITION :SATISFACTORY
LOCATION OF FACILITY :PERMANENT
ULR NUMBER :TC114102500000919F
CUSTOMER NAME & ADDRESS :M/s RAMANIYAM REALTORS LLP,
(DATA PROVIDED BY 14/67, 3RD MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI - 600020

SAMPLE IDENTIFICATION NUMBER: GMTL/SS/995/0225/BH-02(01-10)
TEST REPORT NUMBER: GMC0995_1
SAMPLE RECEIPT DATE: 19/02/2025
PERIOD OF TESTING: 03/03/2025 to 12/03/2025
SAMPLE SOURCE: CUSTOMER SUPPLIED
REPORT ISSUE DATE: 12/03/2025
PAGE NO.: 01

TABLE 2.02 TEST RESULTS FOR SOIL SAMPLES FROM BOREHOLE BH-02

LABORATORY SAMPLE NUMBER	DEPTH (m)	WATER CONTENT (%) AS PER IS 2720 (P-II) - 1973, RA-2020	LIQUID LIMIT (%) AS PER IS 2720 (P-V) - 1985, RA-2020	PLASTIC LIMIT (%) AS PER IS 2720 (P-V) - 1985, RA-2020	PLASTICITY INDEX (I_p= LL-PL)	SHRINKAGE LIMIT (%) AS PER IS 2720 (P-VI) - 1972, RA-2021	FREE SWELL INDEX (%) AS PER IS 2720 (P-XL) - 1977, RA-2021	SPECIFIC GRAVITY AS PER IS 2720 (P-III, SEC-1) - 1980, RA-2021	GRAIN SIZE ANALYSIS AS PER IS 2720 (P-IV) - 1985 (RA:2020)						CLASSIFICATION & IDENTIFICATION OF SOILS FOR GENERAL ENGINEERING PURPOSES (IS 1498 - 1970 RA 2021)							
									Gravel (%) (4.75mm)	Sand (%)			Silt (%)	Clay (%)	Position With Respect to A-Aline (as Per IS 1498 Fig 1.0 Plasticity Chart)	Group Letter Symbol (Fine Grain Soils)	D10 (mm)	D30 (mm)	D60 (mm)	Uniformity Co-Efficient $C_u=D_{60}/D_{10}$	Co-Efficient of Curvature $C_c=D_{30}^2/(D_{60}xD_{60})$	Group Letter Symbol (Gravely Soils)	Group Letter Symbol (Sandy Soils)
										Coarse (2.0 mm)	Medium (0.425 mm)	Fine (0.075mm)											
01	1.25	24	42	19	23	12.6	0	-	2.0	1.1	6.3	22.1	68.6		Above	CI	-	-	-	-	-	-	-
02	2.00	27	64	26	37	12.0	23	-	-	-	-	-	57.9	42.1	Above	CH	-	-	-	-	-	-	-
03	4.00	22	-	-	-	-	-	-	0.0	0.0	36.8	48.0	15.2		-	-	-	-	-	-	-	-	SM
04	5.00	23	-	-	-	-	-	-	0.0	0.0	42.3	43.0	14.7		-	-	-	-	-	-	-	-	SM
05	6.00	22	-	-	-	-	-	-	0.0	0.0	42.3	40.1	17.6		-	-	-	-	-	-	-	-	SM
06	7.50	18	-	-	-	-	-	-	0.0	0.4	49.6	44.3	5.8		-	-	-	-	-	-	-	-	SP-SM
07	9.00	21	-	-	-	-	-	-	0.0	0.9	42.1	47.8	9.1		-	-	-	-	-	-	-	-	SP-SM
08	10.50	10	-	-	-	-	-	-	0.0	4.6	40.4	49.1	6.0		-	-	-	-	-	-	-	-	SP-SM
09	12.00	18	-	-	-	-	-	-	2.4	3.3	36.3	41.0	17.0		-	-	-	-	-	-	-	-	SM
10	14.00	6	-	-	-	-	-	-	6.2	0.2	24.2	41.0	28.5		-	-	-	-	-	-	-	-	SM

** END OF REPORT**

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(QUALITY MANAGER)

GEOMARINE
Phone No.: 044-24481485, 044-24480305

LABORATORY TEST REPORT

GEOMARINE CONSULTANTS PVT LTD- TESTING LABORATORY

NO.11 2nd MAIN ROAD, KANNAPA NAGAR, CHENNAI-600041

TC-11410

DISCIPLINE/GROUP :MECHANICAL / SOIL AND ROCK
MATERIAL/PRODUCT TESTED :CLAY & SOIL
SAMPLE CONDITION :SATISFACTORY
LOCATION OF FACILITY :PERMANENT
ULR NUMBER :TC114102500000919F
CUSTOMER NAME & ADDRESS :M/s RAMANIYAM REALTORS LLP,
(DATA PROVIDED BY 14/67, 3RD MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI - 600020

SAMPLE IDENTIFICATION NUMBER: GMTL/SS/995/0225/BH-0\32(01-10)
TEST REPORT NUMBER: GMC0995_1
SAMPLE RECEIPT DATE: 19/02/2025
PERIOD OF TESTING: 03/03/2025 to 12/03/2025
SAMPLE SOURCE: CUSTOMER SUPPLIED
REPORT ISSUE DATE: 12/03/2025
PAGE NO.: 01

TABLE 2.03 TEST RESULTS FOR SOIL SAMPLES FROM BOREHOLE BH-03

LABORATORY SAMPLE NUMBER	DEPTH (m)	WATER CONTENT (%) AS PER IS 2720 (P-II) - 1973, RA-2020	LIQUID LIMIT (%) AS PER IS 2720 (P-V) - 1985, RA-2020	PLASTIC LIMIT (%) AS PER IS 2720 (P-V) - 1985, RA-2020	PLASTICITY INDEX (I_p= LL-PL)	SHRINKAGE LIMIT (%) AS PER IS 2720 (P-VI) - 1972, RA-2021	FREE SWELL INDEX (%) AS PER IS 2720 (P-XL) - 1977, RA-2021	SPECIFIC GRAVITY AS PER IS 2720 (P-III, SEC-1) - 1980, RA-2021	GRAIN SIZE ANALYSIS AS PER IS 2720 (P-IV) - 1985 (RA:2020)						CLASSIFICATION & IDENTIFICATION OF SOILS FOR GENERAL ENGINEERING PURPOSES (IS 1498 - 1970 RA 2021)							
									Gravel (%) (4.75mm)	Sand (%)			Silt (%)	Clay (%)	Position With Respect to A-Aline (as Per IS 1498 Fig 1.0 Plasticity Chart)	Group Letter Symbol (Fine Grain Soils)	D10 (mm)	D30 (mm)	D60 (mm)	Uniformity Co-Efficient $C_u=D_{60}/D_{10}$	Co-Efficient of Curvature $C_c=D_{30}^2/(D_{10}xD_{60})$	Group Letter Symbol (Gravely Soils)	Group Letter Symbol (Sandy Soils)
										Coarse (2.0 mm)	Medium (0.425 mm)	Fine (0.075mm)											
01	1.25	23	40	19	21	11.9	-12	-	1.0	0.2	7.2	18.0	73.6		Above	CI	-	-	-	-	-	-	-
02	3.00	19	-	-	-	-	0	-	0.0	0.0	17.4	34.9	47.8		-	-	-	-	-	-	-	-	SM
03	4.00	17	-	-	-	-	-	-	0.0	0.0	40.3	50.3	9.4		-	-	-	-	-	-	-	-	SP-SM
04	5.00	19	-	-	-	-	-	-	0.0	0.2	40.8	45.2	13.8		-	-	-	-	-	-	-	-	SM
05	7.50	18	-	-	-	-	-	-	0.0	0.4	36.9	34.7	28.0		-	-	-	-	-	-	-	-	SM
06	9.00	31	-	-	-	-	-	-	1.4	1.2	47.2	38.3	11.9		-	-	-	-	-	-	-	-	SP-SM
07	10.50	20	-	-	-	-	-	-	0.0	0.8	45.5	47.8	5.9		-	-	-	-	-	-	-	-	SP-SM
08	12.00	18	Clay Cementation/ Low Quantity Sample					-	0.0	0.5	18.0	40.2	41.3		-	-	-	-	-	-	-	-	SM
09	14.00	15	41	19	22	15.8	-	-	3.0	5.0	44.0	15.6	32.4		Above	-	-	-	-	-	-	-	SC
10.0	16.00	21	-	-	-	-	-	-	3.2	2.9	24.6	38.3	31.0		-	-	-	-	-	-	-	-	SM

** END OF REPORT**

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(TECHNICAL MANAGER)

AUTHORISED BY
KARTHIKEYAN S N
(QUALITY MANAGER)

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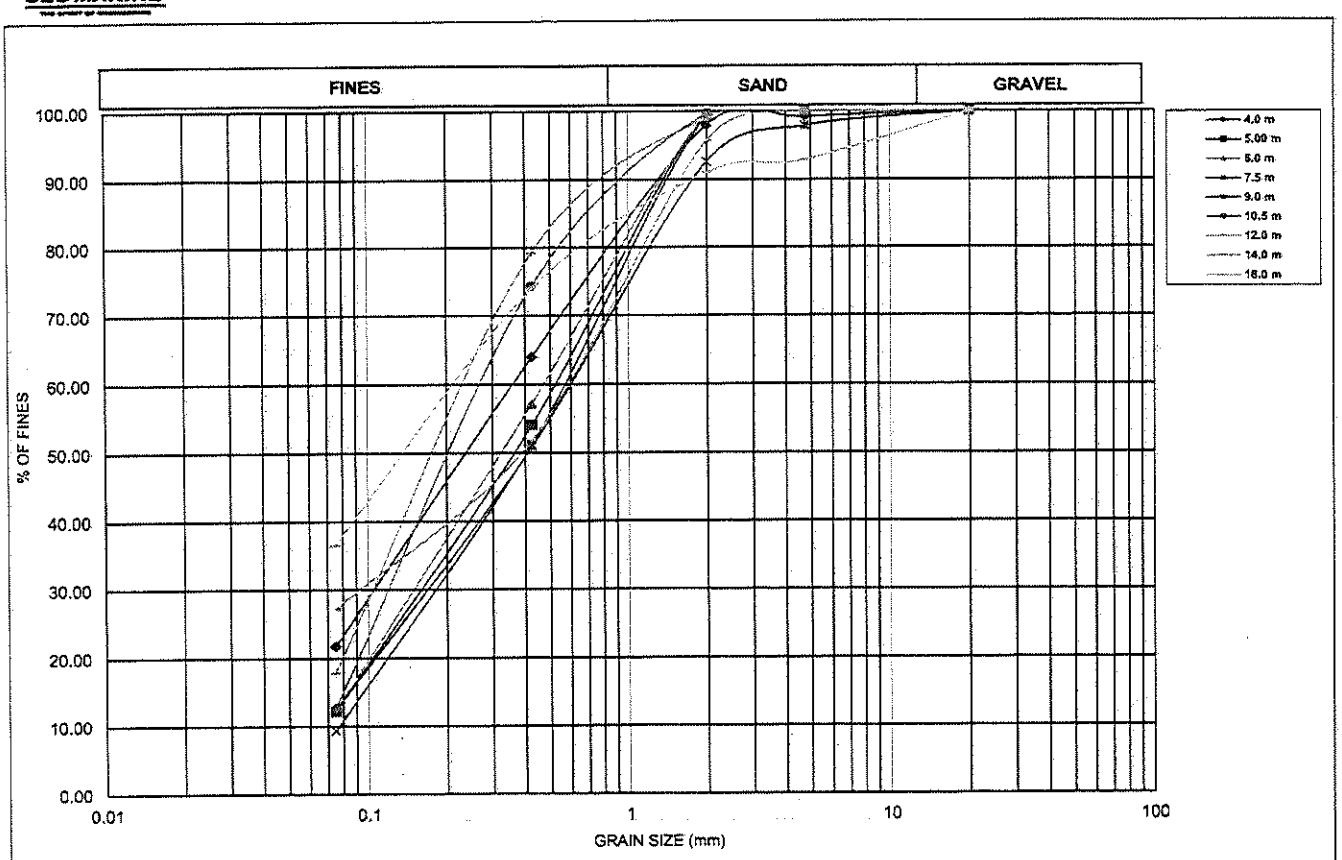


Fig. 2.05 GRAIN SIZE DISTRIBUTION CURVE - BH-01

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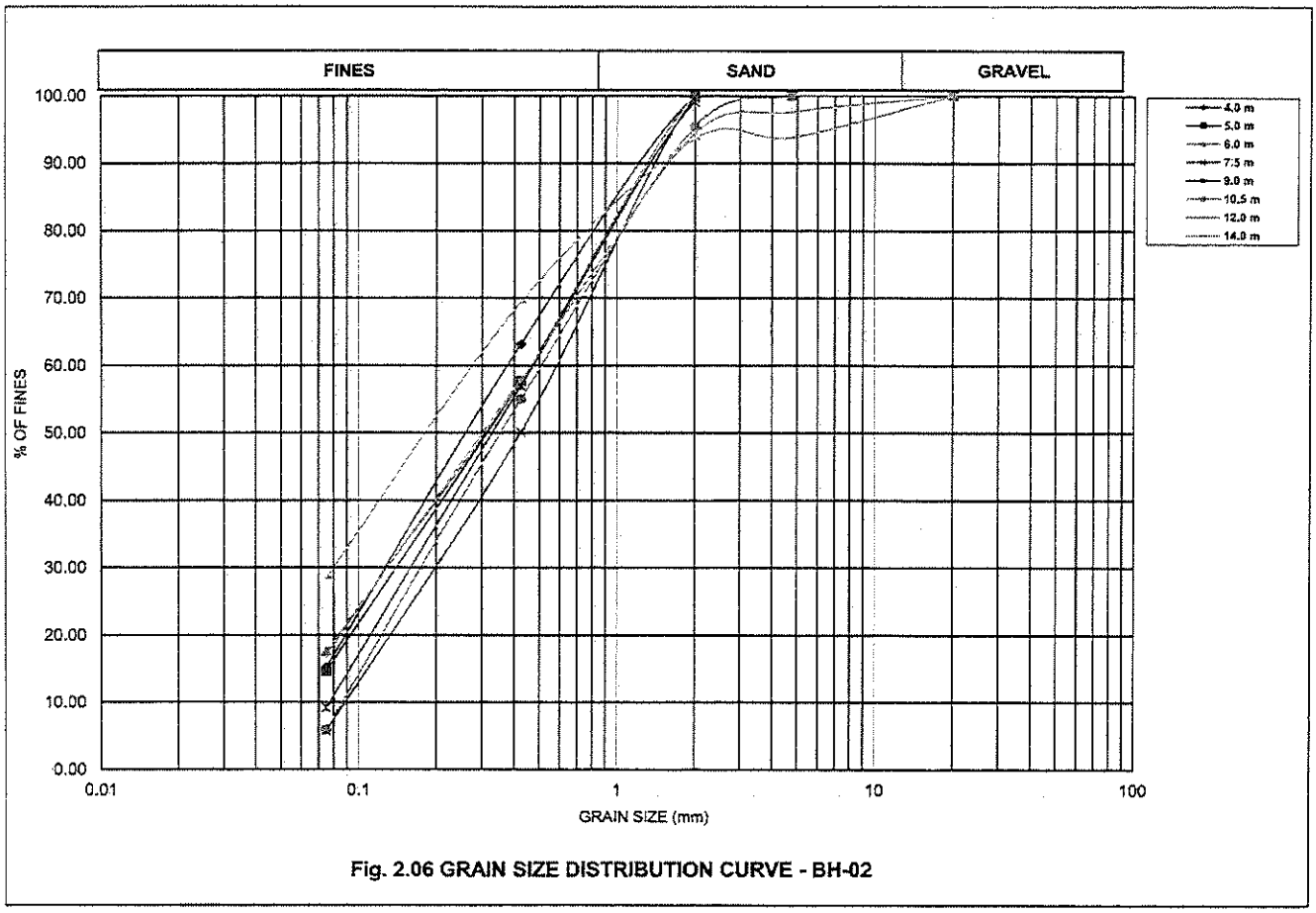


Fig. 2.06 GRAIN SIZE DISTRIBUTION CURVE - BH-02

GEO MARINE

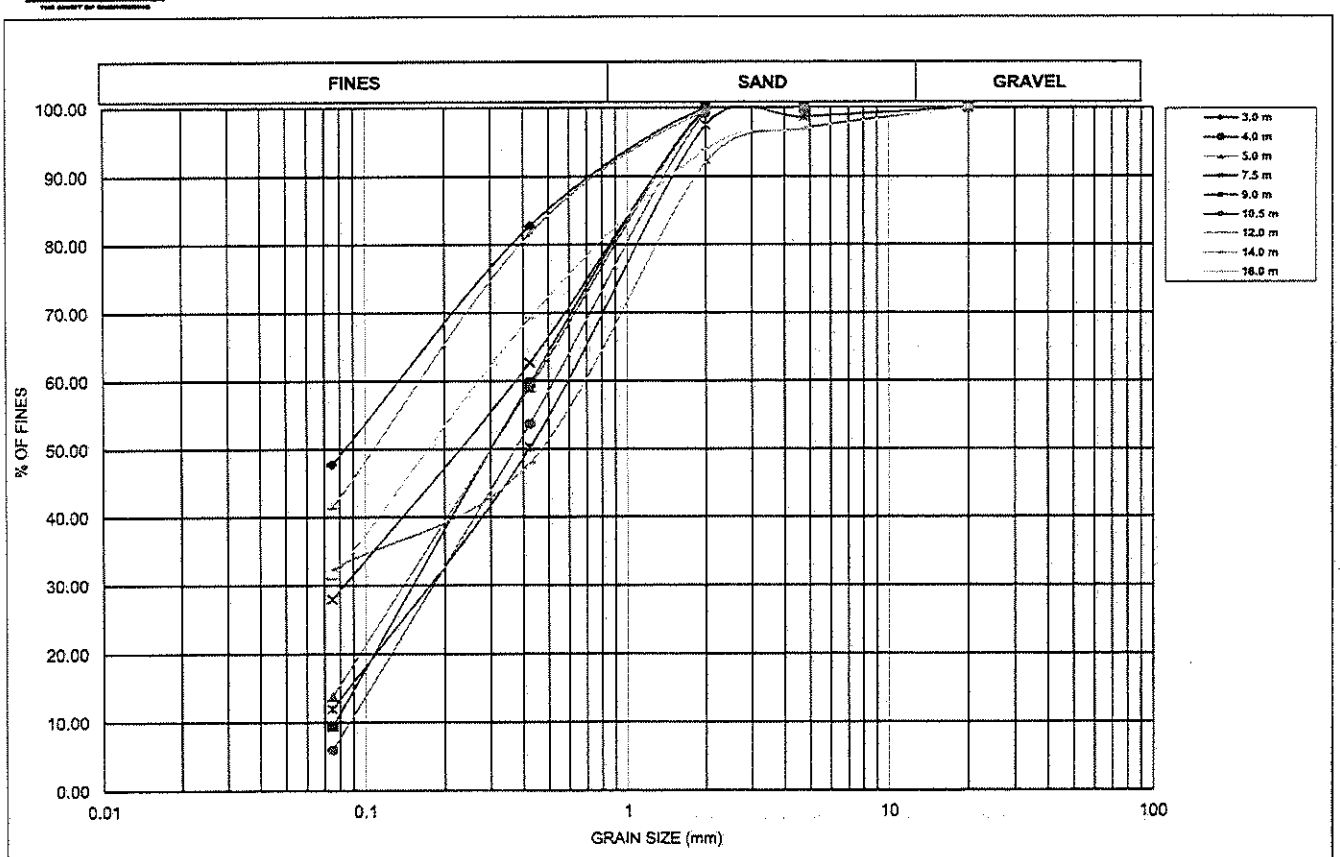


Fig. 2.07 GRAIN SIZE DISTRIBUTION CURVE - BH-03

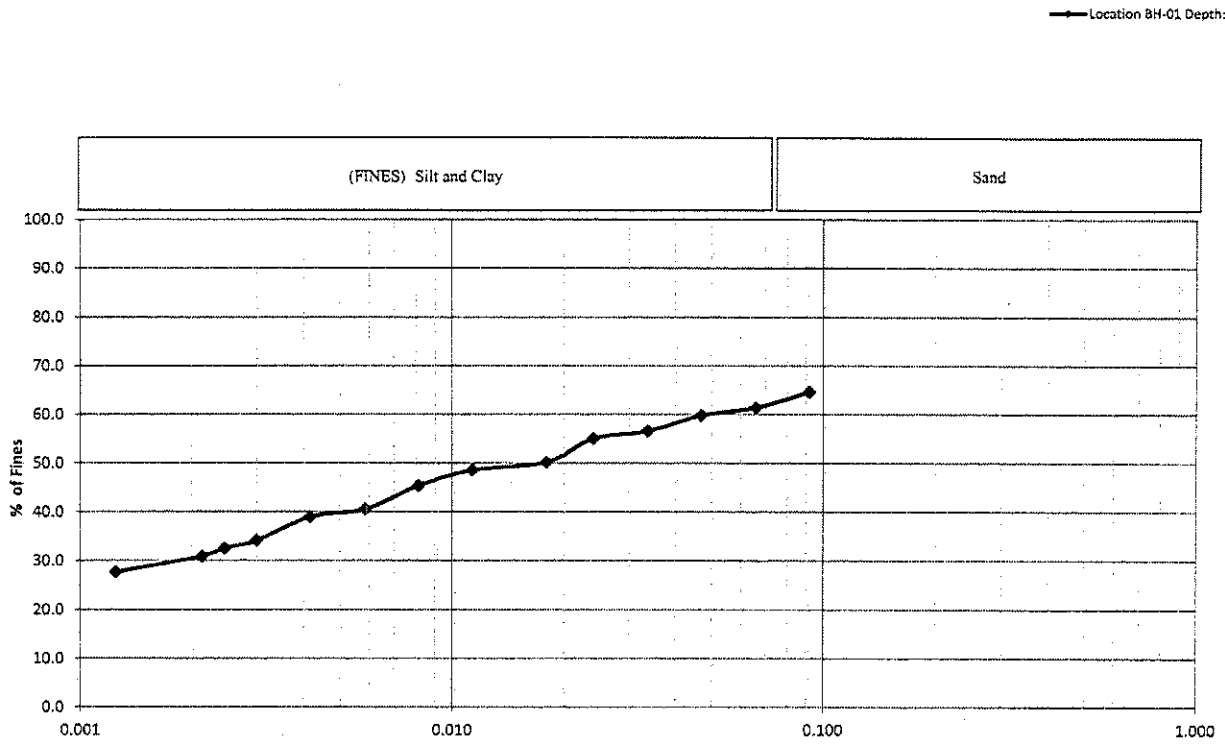


Fig 2.08 Hydrometer Analysis Master Curve

GEO MARINE

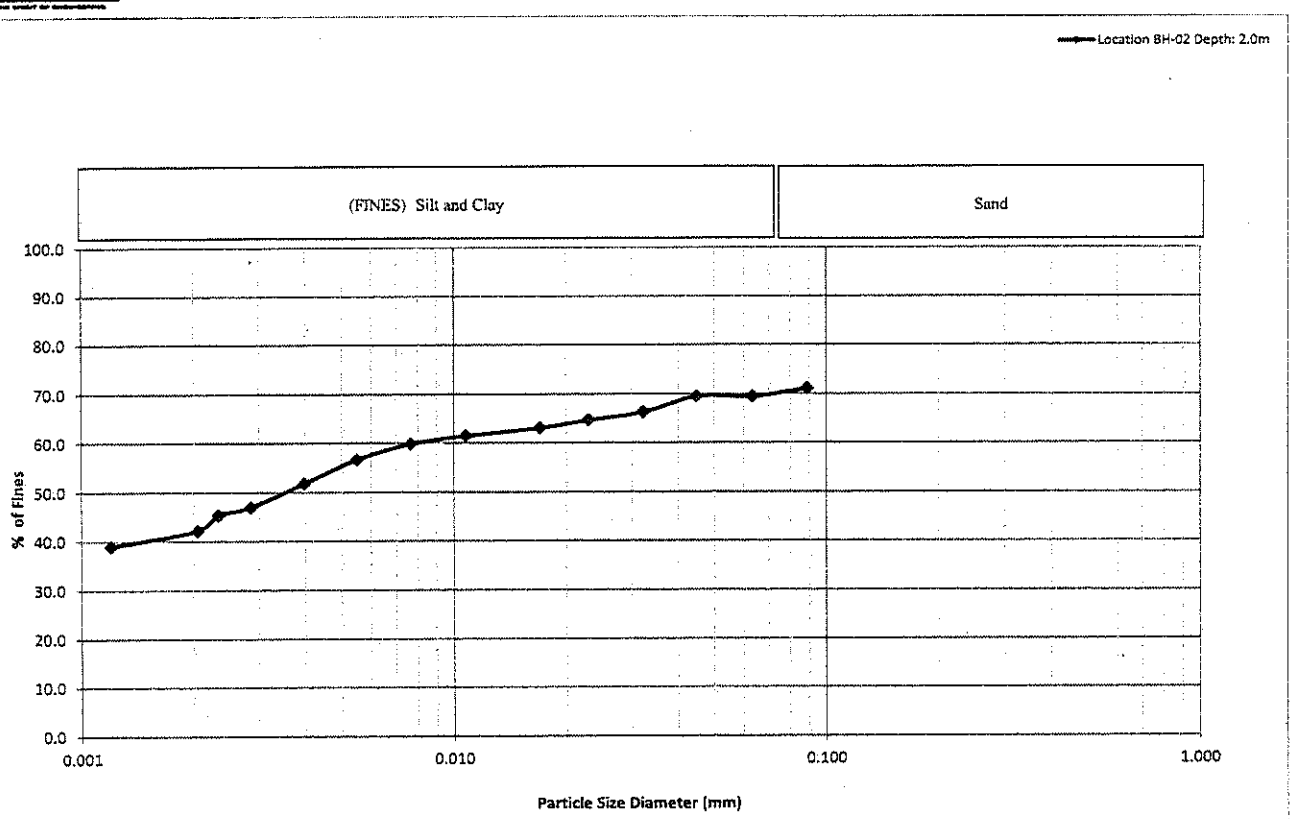


Fig 2.09 Hydrometer Analysis Master Curve

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TABLE - 2.05 RESULT OF CHEMICAL TEST ON WATER

URL NO	: TC114102500000921F		
DISCIPLINE/GROUP	: CHEMICAL - WATER	TEST REPORT NUMBER	: GMC0995_3
SAMPLE DESCRIPTION	: GROUND WATER	SAMPLE RECEIPT DATE	: 27/02/2025
SAMPLE CONDITION	: SATISFACTORY	PERIOD OF TESTING	: 03/03/2025
LOCATION OF FACILITY	: PERMANENT	NO. OF PAGES	: 01
SAMPLE SOURCE	: CUSTOMER SUPPLIED	DATE OF ISSUE OF REPORT	: 12/03/2025
NAME AND ADDRESS OF THE CUSTOMER	: M/s RAMANIYAM REALTORS LLP, 14/67, 3RD MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI - 600020		

S.NO	SAMPLE IDENTIFICATION NUMBER	WATER			
		DEPTH OF SAMLPLE (m)	pH AS PER IS 3025 (P-XI) - 2022	SULPHATES (mg/l) AS PER APHA 24th Edn. 2023-4500	CHLORIDES (mg/l) AS PER IS 3025 (P-XXXII) -1988, RA-2019
1.0	GMTL/WS/995/0225/ BH-01/01	3.10	7.8	142.6	107.6
2.0	GMTL/WS/995/0225/ BH-02/01	3.10	7.8	193.3	106.0
3.0	GMTL/WS/995/0225/ BH-03/01	3.20	7.7	120.7	44.0

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(AMUTHAVALLI / ANALYST)

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(KARTHIKEYAN S N/ QUALITY MANAGER)

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TABLE - 2.06 RESULT OF CHEMICAL TEST ON SOIL

URL NO	: TC114102500000922F		
DISCIPLINE/GROUP	: CHEMICAL-SOIL AND ROCK	TEST REPORT NUMBER	: GMC0995_4
SAMPLE DESCRIPTION	: SOIL	SAMPLE RECEIPT DATE	: 19/02/2025
SAMPLE CONDITION	: SATISFACTORY	PERIOD OF TESTING	: 10/03/2025
LOCATION OF FACILITY	: PERMANENT	NO. OF PAGES	: 01
SAMPLE SOURCE	: CUSTOMER SUPPLIED	DATE OF ISSUE OF REPORT	: 12/03/2025
NAME AND ADDRESS OF THE CUSTOMER	: M/s RAMANIYAM REALTORS LLP, 14/67, 3RD MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI - 600020		

S.NO	SAMPLE IDENTIFICATION NUMBER	SOIL (2:1)	
		DEPTH OF SAMLPLE (m)	pH AS PER IS 2720 (P-XXVI) - 1987
1.0	GMTL/SS/995/0225/BH-01/01	1.3	8.3
2.0	GMTL/SS/995/0225/BH-02/02	2.0	7.8
3.0	GMTL/SS/995/0225/BH-03/01	1.3	8.2

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TABLE - 2.07 RESULT OF CHEMICAL TEST ON SOIL

DISCIPLINE/GROUP	: CHEMICAL - SOIL	TEST REPORT NUMBER	: GMC0995_5
SAMPLE DESCRIPTION	: SOIL	SAMPLE RECEIPT DATE	: 19/02/2025
SAMPLE CONDITION	: SATISFACTORY	PERIOD OF TESTING	: 10/03/2025
LOCATION OF FACILITY	: PERMANENT	NO. OF PAGES	: 01
SAMPLE SOURCE	: CUSTOMER SUPPLIED	DATE OF ISSUE OF REPORT	: 12/03/2025
NAME AND ADDRESS OF THE CUSTOMER	: M/s RAMANIYAM REALTORS LLP, 14/67, 3RD MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI - 600020		

S.NO	SAMPLE IDENTIFICATION NUMBER	SOIL (2:1)		
		DEPTH OF SAMLPLE (m)	SULPHATES (mg/l) AS PER APHA 24th Edn. 2023-4500	CHLORIDES (mg/l) AS PER IS 3025 (P-XXXII) -1988, RA-2019
1.0	GMTL/SS/995/0225/BH-01/01	1.3	14.3	17.9
2.0	GMTL/SS/995/0225/BH-02/02	2.0	20.9	29.4
3.0	GMTL/SS/995/0225/BH-03/01	1.3	12.6	16.3

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CHAPTER-3

GEOLOGY & SUB-SURFACE STRATIFICATION

3.0 PREAMBLE:

Geotechnical investigation carried out at a specific site provides location specific sub surface engineering characteristics. However, in major project sites where the construction activities spread over a very large area location specific sub surface strata characteristics are studied together with the geological mapping data.

This is required to incorporate the impact of any documented macro-level geological characteristics of the region on the foundation design, irrespective of the location specific sub surface strata characteristics.

In view on the above, though it is beyond the scope of the present study to carry out macro-level geological investigation the regional geology based on the published data is presented and discussed.

3.1 CLIMATE AND RAINFALL:

The study area receives the rain under the influence of both southeast and northeast monsoons. Predominantly northeast monsoon contributes rainfall and most of the precipitation occurs in the form of cyclonic storm caused due to the depressions in Bay of Bengal. The north east monsoon occurs between October & December. The southwest monsoon rainfall is highly erratic and summer rains are negligible.

The normal annual rainfall over the study area varies from 1100 mm to 1200mm.

3.2 GEOMORPHOLOGY:

Chennai district forms part of coastal plains of northern Tamil Nadu. Major part of the district is having flat topography with very gentle slope towards east. The altitudes of land surface vary from 10 m above MSL in the west to sea level in the east.

Fluvial, marine and erosional landforms are noticed in the district. Marine transgression and regressions and neo-tectonic activity during the recent past have influenced the morphology and resulted in various present landforms.

Meandering streams with small sand bars are present along the course of Adyar River. The pediment and buried pediment in Guindy area in and around the reserved forest, is the only area where the ecological system is less disturbed, while the other areas are completely disturbed by built up area with large-scale human interference and pollution.

3.3 GEOLOGY OF CHENNAI DISTRICT:

Chennai district is underlain by various geological formations from ancient Archaean to the Recent Alluvium. The geological formations of the district can be grouped into three units, namely

i) Archaean crystalline rocks

ii) Gondwana (Consolidated Clay/Clayey Silt) and Tertiary sediments and

iii) Recent Alluvium.

The Archaean crystalline rocks of the district comprise chiefly of Charnockite, gneisses and the associated basic and ultra-basic intrusive dykes.

3.4 GEOLOGICAL ORDER OF THE STUDY AREA:

The stratigraphy of the study area can be classified as recent formation which is underlain by basement rock of meta-igneous origin (hypersthene granite/ Charnockite rock)

↑ Deposits of Recent Age

---------- Eparchean Unconformity ----------

Archaean Basement Rock (Charnockite Rock / Hypersthene Granite)

The present project site, the overburden soil exists for a depth of 2.0m to 3.0m from the existing ground level predominantly consists of clayey soil with sand mixture. The overburden soil rests on rock formation of different degree of weathering.

3.5 DESIGN SUB SOIL PROFILE: (WRT Foundation Engineering Application)

The sub soil characteristics obtained at the test location are further processed to arrive at the design soil parameters required for the design of sub structure using the following shear strength correlations with respect to the Standard Penetration Test Values of different layers.

- For Coarse Grained Material, Ref. IS: 6403 to estimate Angle of Shearing Resistance (Reproduced and shown in Fig.A1)
- For Fine Grained Material, Ref. Terzaghi & Peck, 1948, to estimate Unconfined Compressive Strength (Reproduced and shown in Fig.A2)

Based on the above, the average design soil characteristics are given below:

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REFERENCE BORE HOLE					BH-01	Ref R.L. of G.L. (m):			0.00		
Layer No.	Layer Thk. (m)			Type of Strata	Colour	Ave. Design SPT	Relative Density	Consistency	(γ) kN/m³	Shear Parameters	
	Top BGL	Bottom BGL	Thickness							(C_u) kPa	(ϕ) Deg.
1.0	0.00	2.00	2.00	Silty Clay	Brown	12	-	Stiff	18.5	80	-
2.0	2.00	3.00	1.00	Silty Clay	-	-	-	-	-	-	-
3.0	3.00	4.00	1.00	Silty Sand	Brown	24	Medium Dense	-	18.5	-	34
4.0	4.00	6.00	2.00	Silty Sand	Grey	8	Loose	-	14.5	-	30
5.0	6.00	7.50	1.50	Silty Sand	Grey	3	Very Loose	-	13	-	20
6.0	7.50	10.50	3.00	Silty Sand	Grey	11	Medium Dense	-	15.5	-	30
7.0	10.50	14.00	3.50	Silty Sand	Brown Grey	31	Dense	-	19.5	-	36
8.0	14.00	16.00	2.00	Silty Sand	Grey Brown	63	Very Dense	-	21	-	43
9.0	16.00	17.50	1.50	Residual Soil	Grey Brown	>100	Very Dense	-	21	-	43
10.0	17.50	19.00	1.50	Completely Weathered Rock	Grey Brown	CRR = 5%, RQD = 0%					
11.0	19.00	20.50	1.50	Highly Weathered Rock	Grey Brown	CRR = 15%, RQD = 0%					
12.0	20.50	22.00	1.50	Moderately Weathered Rock	Grey	CRR = 79%, RQD = 53%					
13.0	22.00	23.00	1.00	Slightly Weathered Rock	Grey	CRR = 90%, RQD = 38%					

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REFERENCE BORE HOLE					BH-02	Ref R.L. of G.L. (m):			0.00		
Layer No.	Layer Thk. (m)			Type of Strata	Colour	Ave. Design SPT	Relative Density	Consistency	(γ) kN/m³	Shear Parameters	
	Top BGL	Bottom BGL	Thickness							(Cu) kPa	(ϕ) Deg.
1.0	0.00	2.00	2.00	Silty Clay	Brown	8	-	Medium Stiff	16.5	53	-
2.0	2.00	3.00	1.00	Silty Clay	Grey Brown	14	-	Stiff	19.5	93	-
3.0	3.00	4.00	1.00	Clayey Sand	-	-	-	-	-	-	-
4.0	4.00	7.50	3.50	Silty Sand	Grey, Brown Grey	4	Very Loose	-	13.5	-	20
5.0	7.50	12.00	4.50	Silty Sand	Grey	16	Medium Dense	-	18	-	32
6.0	12.00	14.00	2.00	Silty Sand	Brown Grey	31	Dense	-	19.5	-	36
7.0	14.00	16.10	2.10	Residual Soil	Grey, Yellow Brown	>100	Very Dense	-	21	-	43
8.0	16.10	17.50	1.40	Completely Weathered Rock	Grey Brown	>100	Very Dense	-	21	-	43
9.0	17.50	18.50	1.00	Highly Weathered Rock	Grey Brown	CRR = 17%, RQD = 0%					
10.0	18.50	20.00	1.50	Highly Weathered Rock	Grey Brown	CRR = 13%, RQD = 0%					
11.0	20.00	21.50	1.50	Moderately Weathered Rock	Grey, Brown Shades	CRR = 67%, RQD = 19%					
12.0	21.50	23.00	1.50	Fresh Rock	Grey	CRR = 94%, RQD = 88%					

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REFERENCE BORE HOLE					BH-03	Ref R.L. of G.L. (m):			0.00		
Layer No.	Layer Thk. (m)			Type of Strata	Colour	Ave. Design SPT	Relative Density	Consistency	(γ) kN/m^3	Shear Parameters	
	Top BGL	Bottom BGL	Thickness							(C_u) kPa	(ϕ) Deg.
1.0	0.00	2.00	2.00	Silty Clay	Brown	14	-	Stiff	19.5	93	-
2.0	2.00	3.00	1.00	Silty Clay	-	-	-	-	-	-	-
3.0	3.00	6.00	3.00	Silty Sand	Grey Brown	17	Medium Dense	-	18	-	32
4.0	6.00	7.50	1.50	Silty Sand	-	2	Very Loose	-	13	-	20
5.0	7.50	9.00	1.50	Silty Sand	Grey	10	Loose	-	15	-	30
6.0	9.00	14.00	5.00	Silty Sand	Brown Grey	29	Medium Dense	-	19	-	36
7.0	14.00	16.00	2.00	Clayey Sand	Brown Grey	43	Dense	-	20	-	39
8.0	16.00	17.50	1.50	Residual Soil	Grey Brown	>100	Very Dense	-	21	-	43
9.0	17.50	19.00	1.50	Moderately Weathered Rock	Grey	CRR = 83%, RQD = 18%					
10.0	19.00	20.50	1.50	Moderately Weathered Rock	Grey	CRR = 26%, RQD = 0%					
11.0	20.50	22.00	1.50	Moderately Weathered Rock	Grey	CRR = 69%, RQD = 21%					
12.0	22.00	23.00	1.00	Moderately to Slightly Weathered	Grey	CRR = 97%, RQD = 38%					

CHAPTER-4

FOUNDATION SYSTEM

4.0 PREAMBLE:

In the design of foundation system, the stress-strain compatibility of the super structure, sub structure and the bearing strata should be satisfied both individually and as a combined system. In view of this, the following data are needed for the design of foundation system, defined in terms of the type of sub structure and the bearing strata characteristics.

- ❖ The super structure characteristics along with the loading pattern on the sub structure
- ❖ The sub soil characteristics that define the required substructure configuration for a safe transfer of super-structural loads to the bearing strata

Considering the above aspects of the foundation design, the suitable type of foundation system is presented below.

4.1 PROPOSED STRUCTURES:

An understanding of the proposed construction and the order of loads on the foundations is needed for choosing the appropriate foundation system. In the present case, the proposed structure is configured with stilt and nine upper floors and is meant for use of residential occupancy. For this kind of structure, the column loads could vary between 3000 kN to 5000kN. The above-mentioned loads have no bearing on the design of either sub or super structures and are mentioned just to provide an insight to choose an appropriate foundation system with respect to subsoil conditions.

4.2 SUB SURFACE CHARACTERSTICS:

The tabulation below presents the idealised sub soil stratification based on the investigation borehole data, with respect to the average "N" and soil classification.

0.0m to 3.0m	Stiff, Silty Clay
3.0m to 14.0m	Medium Dense, Sand with Intermittent Loose, Sand between 4.0m to 7.5m
14.0m to 16.0m	Very Dense, Disintegrated Granite Rock
16.0m to 17.5m	Very Dense, Completely Weathered Rock
17.5m to 20.5m	Highly to Moderately Weathered Rock, Grade W4 to W3 Formation
20.5m to 23.0m	Moderately to Slightly Weathered Rock, Grade W3 to W2 Formation

4.3 FOUNDATION SYSTEM:

Taking into account of the sub soil formation and the proposed configuration of the super structure, open foundation system is not feasible from shear and settlement considerations. Hence, it is suggested to adopt deep pile foundation system.

The piles can be installed by drilling with direct mud circulation technique **(Bored Cast Insitu Piles)** and the recommended safe load carrying capacity of bored cast insitu piles in compression, tension and lateral for different diameters located at a depth of 18.0m is worked out as per IS 2911-Part-I-Section-2 and are presented in Table 4.1.

Typical computations are presented in Annexure-I.

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TABLE:- 4.1 RECOMMENDED SAFE LOAD CARRYING CAPACITIES OF BORED CAST-IN SITU PILES

S.NO.	REFERENCE BOREHOLE NO.	LENGTH OF BORING FROM GROUND LEVEL (m)	ASSUMED LENGTH OF CUT-OFF FROM GROUND LEVEL (m)	ACTUAL LENGTH OF PILE (m)	DIAMETER OF PILE (mm)	SAFE LOAD CARRYING CAPACITY IN COMPRESSION (kN)	SAFE LOAD CARRYING CAPACITY IN PULL/ TENSION (kN)	SAFE LATERAL LOAD CARRYING CAPACITY (kN) (FIXED HEAD CONDITION)	SAFE LATERAL LOAD CARRYING CAPACITY (kN) (FREE HEAD CONDITION)	DEPTH OF FIXITY (m)
1.0	BH-02	18.0	1.0	17.0	500	900	330	35	10	4.9
2.0					550	1100	360	40	11	5.3
3.0					600	1350	400	45	13	5.7
4.0					750	1750	450	60	19	6.8
5.0					800	2100	500	70	21	7.1
6.0					900	2750	600	90	25	7.8

CHAPTER-5

RECOMMENDATIONS

5.1 RECOMMENDATION FOR PILE FOUNDATION SYSTEM:

- For the kind of proposed construction, Bored Cast in situ piles is recommended as the suitable foundation system.
- The allowable safe load carrying capacities of different diameters of piles as given in Table-4.1 can be adopted as provisional design loads, as the load carrying capacity of piles is not only depends upon the sub soil properties, but also depends on the care and experience of installation piles.
- The theoretical load carrying estimates of piles shall be confirmed by conducting pile loads tests as per the guide lines laid down in IS: 2911-Part-IV.
- The boring shall be carried out using direct mud circulation prepared out of sodium bentonite.
- After reaching the borehole termination depth, the borehole shall be cleaned using mud circulation for a minimum period of 30 min or till the return mud is relatively clear of soil particles.
- After ensuring the borehole is clean, the tremie pipe shall be lowered and concreting can be done.
- It is recommended to carry out initial pile load test before commencing the working piles.

5.1.1 CONSTRUCTION METHOD STATEMENT OF PILE FOUNDATION:

- For the bored cast in situ piles, a guide casing of suitable length can be adopted.
- The mud used shall be made out of sodium bentonite with minimum frees swell index of more than 300% and liquid limit more than 100%. The silt content in bentonite shall not more than 5%.

  The mud was prepared using sodium bentonite with a density of 1.10 to 1.15 g/cc.

5.2 GENERAL RECOMMENDATIONS:

- The present project site falls in seismic zone-III as per IS 1893-P-I.
- The chlorides content in ground water & soil-water extract is less than the permissible limit of 500 mg/l as per IS 456 Table 1.0. Hence no special steel is required for the construction.
- Corresponding to the sulphate content in 2:1 Water-Soil extract and ground water use Table 4.0 of IS 456 Clause 1.0 for minimum cement content and maximum water cement ratio.

AUTHORISED SIGNATORY

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On behalf of CMDA MSB Panel, the detailed geotechnical report is reviewed and found in order

Superintending Engineer, P.W.D.,
Planning and Designs Circle,
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Field SPT N Value			
Depth of SPT (m)	Bore Hole Number		
	BH-01	BH-02	BH-03
1.25	-	-	-
2.00	-	-	-
3.00	24	-	19
4.00	6	5	20
5.00	10	4	12
6.00	3	2	2
7.50	13	11	10
9.00	9	12	26
10.50	30	19	32
12.00	32	31	29
14.00	63	-	43

N' CORRECTED FOR OVERBURDEN					
Ave. Bulk Density	18.00	GWT	2.0	m	
Depth of SPT (m)	Effective Overburden Pr. (kPa)	Correction Factor	Bore Hole Number		
			BH-01	BH-02	BH-03
1.25	22.50	1.41	-	-	-
2.00	36.00	1.31	-	-	-
3.00	44.00	1.25	30	-	24
4.00	52.00	1.10	7	5	22
5.00	60.00	1.08	11	4	13
6.00	68.00	1.06	3	2	2
7.50	80.00	1.04	14	11	10
9.00	92.00	1.02	9	12	26
10.50	104.00	0.99	30	19	32
12.00	116.00	0.95	30	30	28
14.00	132.00	0.90	57	-	39

N" CORRECTED FOR DILATANCY			
Depth of SPT (m)	Bore Hole Number		
	BH-01	BH-02	BH-03
1.25	-	-	-
2.00	-	-	-
3.00	23	-	20
4.00	7	5	19
5.00	11	4	13
6.00	3	2	2
7.50	14	11	10
9.00	9	12	21
10.50	23	17	24
12.00	23	23	22
14.00	36	-	27

GEOMARINE

ESTIMATION OF SAFE LOAD CARRYING CAPACITY OF BORED CAST-INSITU PILES

Type of Pile	Bored	Diameter of Pile			Length of Pile below G.L. (m)	18.0	As Per IS:2911-(P-I,S-2)-2010	
Reference Bore Hole	BH-01		600	mm	Surcharge Pressure	0	kPa	

Layer No.	Layer Thk. (m) Top. R.L.	Bot. R.L.	Thickness	Type of Strata	Ave. SPT N/Corrected N''	(γ) kN/m³ of Layer	(γ) kN/m³ Ave. upto Layer	Shear Parameters (C_u) kPa	(φ) Deg.	Effective Overburden Pressure (kPa) At top of Layer	At Bot. of Layer	At Mid. of Layer	Adhesion Factor (α)	Earth Pressure Coefficient (k)	Skin Friction (Q_f) kN		
1.0	0.0	1.0	1.0	Cut-Off Level													
2.0	1.0	3.0	2.0	Silty Clay	14	19.5	19.5	93	-	0.0	19.0	9.5	0.5	-	qf	2	164.8
3.0	3.0	4.0	1.0	Silty Sand	23	18.5	19.0	-	34	19.0	27.5	23.3	-	1.2	qf	3	35.3
4.0	4.0	6.0	2.0	Silty Sand	9	14.5	16.5	-	30	27.5	36.5	32.0	-	1.0	qf	4	69.1
5.0	6.0	7.5	1.5	Silty Sand	3	13.0	13.8	-	20	36.5	41.0	38.8	-	1.0	qf	5	0.0
6.0	7.5	10.5	3.0	Silty Sand	12	16.0	14.5	-	31	41.0	59.0	50.0	-	1.0	qf	6	172.3
7.0	10.5	16.0	5.5	Silty Sand	27	19.0	17.5	-	35	59.0	108.5	83.8	-	1.3	qf	7	767.8
8.0	16.0	18.0	2.0	Residual Soil/ Completely Weathered Rock	100	21.0	20.0	-	38	108.5	130.5	119.5	-	1.5	qf	8	528.0

Summation of Positive Skin Resitance (kN) Q_f= 1737.19

Summation of Negative Skin Resistance (kN) -Qf= 0.00

Computation of End Bearing Resistance

		SPT	φ	C_u	N_q	N_c			
Bearing Stratum	Completely Weathered Rock	100	39	-	96.31	-	Eff.Ht.of Overburden	9	m
							Effective Overburden Pressure	65.25	kN/m²

End Bearing Resistance (kN) Q_p= 1776.73

Skin Resistance in Clay Layer is $\pi*d*T_i*C_u*\alpha$	Ultimate Load Carrying Capacity (Q_{ult})	$Q_u=Q_f-Q_f+Q_p$ (kN) 3513.92
Skin Resistance in Sand Layer is $\pi*d*T_i*q_i*K*Tan(\phi)$	Safe Load Carrying Capacity (Q_{safe})	$Q_u/2.5$ (kN) 1405.57
End Bearing Resistance in Clay Layer is $\pi*d^2/4*C_u*N_c$	Allowable Safe Load Carrying Capacity	Q_{A-safe} (kN) 1405.57
End Bearing Resistance in Sand Layer is $\pi*d^2/4*Q*N_q$	Allowable Safe Pull out Capacity	Q_{A-pull}: Qf/3 (kN) 579.06

Where

Cu=Undrained Shear Strength of Clay — K=Coef. Earth Pressure at Rest — d=Dia. Of Pile

φ=Angle of Shearing Resistance — q_i=Effecitve Overburden Pressure at middle of Layer — α=Adhession Factor

N_c=Bearing Capacity Factor = 9 — N_q=Bearing Capacity Factor, Ref. Fig.1 of IS: Code Referred above — T_i=Thickness of Layer

Q (i.e) Effecitve Overburden Pressure at pile tip=Effective height of overburden X (~10)

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ESTIMATION OF SAFE LOAD CARRYING CAPACITY OF BORED CAST-INSITU PILES

Type of Pile	Bored	Diameter of Pile			Length of Pile below G.L. (m)	18.0	As Per IS:2911-(P-I,S-2)-2010
Reference Bore Hole	BH-02		600	mm	Surcharge Pressure	0	kPa

Layer No.	Layer Thk. (m) Top. R.L.	Bot. R.L.	Thickness	Type of Strata	Ave. SPT N/Corrected N"	(γ) kN/m³ of Layer	Ave. upto Layer	Shear Parameters (C_u) kPa	(ϕ) Deg.	Effective Overburden Pressure (kPa) At top of Layer	At Bot. of Layer	At Mid. of Layer	Adhesion Factor (α)	Earth Pressure Coefficient (k)	Skin Friction (Q_f) kN		
1.0	0.0	1.0	1.0	Cut-Off Level													
2.0	1.0	3.0	2.0	Silty Clay	11	18.0	18.0	73	-	0.0	16.0	8.0	0.6	-	qf	2	170.6
3.0	3.0	7.5	4.5	Silty Sand	4	13.5	15.8	-	20	16.0	31.8	23.9	-	1.0	qf	3	0.0
4.0	7.5	10.5	3.0	Silty Sand	12	16.0	14.8	-	31	31.8	49.8	40.8	-	1.0	qf	4	140.4
5.0	10.5	14.0	3.5	Silty Sand	20	18.0	17.0	-	33	49.8	77.8	63.8	-	1.2	qf	5	314.6
6.0	14.0	16.5	2.5	Residual Sil	100	21.0	19.5	-	36	77.8	105.3	91.5	-	1.5	qf	6	469.9
7.0	16.5	18.0	1.5	Completely Weathered Rock	100	21.0	21.0	-	38	105.3	121.8	113.5	-	1.5	qf	7	376.1

Summation of Positive Skin Resitance (kN) Q_f= 1471.66

Summation of Negative Skin Resistance (kN) -Qf= 0.00

Computation of End Bearing Resistance

		SPT	ϕ	C_u	N_q	N_c			
Bearing Stratum	Completely Weathered Rock	100	39.00	-	96.31	-	Eff.Ht.of Overburden	9	m
							Effective Overburden Pressure	69.00	kN/m²

End Bearing Resistance (kN) Q_p= 1878.84

Skin Resistance in Clay Layer is $\pi*d*T_i*C_u*\alpha$

Skin Resistance in Sand Layer is $\pi*d*T_i*q_i*K*Tan(\phi)$

End Bearing Resistance in Clay Layer is $\pi*d^2/4*C_u*N_c$

End Bearing Resistance in Sand Layer is $\pi*d^2/4*Q*N_q$

Ultimate Load Carrying Capacity (Q_{ult}) $Q_u=Q_f-Q_t+Q_p$ (kN) 3350.50

Safe Load Carrying Capacity (Q_{safe}) $Q_u/2.5$ (kN) 1340.20

Allowable Safe Load Carrying Capacity $Q_{A\text{-}safe}$ (kN) 1340.20

Allowable Safe Pull out Capacity $Q_{A\text{-}pull}$: Qf/3 (kN) 490.55

Where

Cu=Undrained Shear Strength of Clay

ϕ=Angle of Shearing Resistance

N_c=Bearing Capacity Factor = 9

K=Coef. Earth Pressure at Rest

q_i=Effecitve Overburden Pressure at middle of Layer

N_q=Bearing Capacity Factor, Ref. Fig.1 of IS: Code Referred above

d=Dia. Of Pile

α=Adhession Factor

T_i=Thickness of Layer

Q (i.e) Effecitve Overburden Pressure at pile tip=Effective height of overburden X (γ=10)

GEO MARINE

ESTIMATION OF SAFE LOAD CARRYING CAPACITY OF BORED CAST-INSITU PILES

Type of Pile	Bored	Diameter of Pile			Length of Pile below G.L. (m)	18.0	As Per IS:2911-(P-I,S-2)-2010
Reference Bore Hole	BH-03		600	mm	Surcharge Pressure	0	kPa

Layer No.	Layer Thk. (m) Top. R.L.	Bot. R.L.	Thickness	Type of Strata	Ave. SPT N/Corrected N"	(γ) kN/m³ of Layer	(γ) kN/m³ Ave. upto Layer	Shear Parameters (C_u) kPa	Shear Parameters (ϕ) Deg.	Effective Overburden Pressure (kPa) At top of Layer	At Bot. of Layer	At Mid. of Layer	Adhession Factor (α)	Earth Pressure Coefficient (k)	Skin Friction (Q_f) kN		
1.0	0.0	1.0	1.0	Cut-Off Level													
2.0	1.0	3.0	2.0	Silty Clay	14	19.5	19.5	93	-	0.0	19.0	9.5	0.5	-	qf	2	164.8
3.0	3.0	6.0	3.0	Silty Sand	17	18.0	18.8	-	32	19.0	43.0	31.0	-	1.1	qf	3	121.7
4.0	6.0	7.5	1.5	Silty Sand	2	13.0	15.5	-	20	43.0	47.5	45.3	-	1.0	qf	4	0.0
5.0	7.5	9.0	1.5	Silty Sand	10	15.0	14.0	-	30	47.5	55.0	51.3	-	1.0	qf	5	83.7
6.0	9.0	16.0	7.0	Silty Sand	23	18.5	16.8	-	34	55.0	114.5	84.8	-	1.2	qf	6	899.8
7.0	16.0	17.5	1.5	Residual Soil	100	21.0	19.8	-	36	114.5	131.0	122.8	-	1.5	qf	7	378.2
8.0	17.5	18.0	0.5	Highly Weathered Rock	100	21.0	21.0	-	38	131.0	136.5	133.8	-	1.5	qf	8	147.7

Summation of Positive Skin Resitance (kN) Q_f= 1795.89

Summation of Negative Skin Resistance (kN) -Qf= 0.00

Computation of End Bearing Resistance

		SPT	ϕ	C_u	N_q	N_c			
Bearing Stratum	Highly Weathered Rock	100	39.00	-	96.31	-	Eff.Ht.of Overburden	9	m
							Effective Overburden Pressure	71.04	kN/m²

End Bearing Resistance (kN) Q_p= 1934.28

Skin Resistance in Clay Layer is $\pi*d*T_i*C_u*\alpha$	Ultimate Load Carrying Capacity (Q_{ult})	$Q_u=Q_f+Q_p$ (kN) 3730.16
Skin Resistance in Sand Layer is $\pi*d*T_i*q_i*K*\tan(\phi)$	Safe Load Carrying Capacity (Q_{safe})	$Q_u/2.5$ (kN) 1492.07
End Bearing Resistance in Clay Layer is $\pi*d^2/4*C_u*N_c$	Allowable Safe Load Carrying Capacity	Q_{A-safe} (kN) 1492.07
End Bearing Resistance in Sand Layer is $\pi*d^2/4*Q*N_q$	Allowable Safe Pull out Capacity	Q_{A-pull}: Qf/3 (kN) 598.63

Where

Cu=Undrained Shear Strength of Clay
K=Coef. Earth Pressure at Rest
d=Dia. Of Pile
ϕ=Angle of Shearing Resistance
q_i=Effecitve Overburden Pressure at middle of Layer
α=Adhession Factor
N_c=Bearing Capacity Factor = 9
N_q=Bearing Capacity Factor, Ref. Fig.1 of IS: Code Referred above
T_i=Thickness of Layer
Q (i.e) Effecitve Overburden Pressure at pile tip=Effective height of overburden X (γ-10)

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LATERAL LOAD CARRYING CAPACITY OF BORED CAST- SITU PILES

1.0 Geometrical Data

Type of Pile Head Considered		Fixed	
Diameter of Pile (d)	:	0.60	m
Free standing Length of Pile (e)	:	0	m
Length of Pile below E.G.L (Le)	:	19.5	m
Cut-Off Level From E.G.L	:	1.0	
Length of Pile below Cut-Off Level (Le)	:	18.5	m
Grade of Concrete (M)	:	25	MN/m^2
Young's Modulus of Concrete (E)	:	25000000	kN/m^2
Momemnt of Inertia (I)	:	0.006362	m^4

2.0 Determination of Depth of Fixity

Type of Soil Strata	:	Sand	
Ground Water Condition	:	Submerged	
Average SPT "N" Value	:	10	
$T=(EI/nh)1/5$			

(n can be read as h in the above and below equation in case of Sand)

nh=	:	1400	kN/m^3
In Case of Sand	:	-	kN/m^4
T=	:	2.58	m
L1/T	:	0.00	
Lf/T	:	2.20	
Depth of Fixity below Cut off (z_f)	:	5.67	m

3.0 Determincation of Lateral Load and Moment Carrying Capacity for 0.005 m Lateral Deflection:

Allowable Lateral Deflection (Y)	:	0.005	m
Lateral Load Carrying Capacity (H)= Y*12EI/(e+zf)^3	:	52	kN
Recommended Design Lateral Load carrying Capacity	:	**52**	**kN**
Fixed End Moment,$M_F=H(e+z_f)/2$		148	
Reduction Factor (L_1/T)	:	0.83	m
Actual Moment (Fixed End Moment/Reduction Factor),M_F		**123**	kN-m

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ANNEXURE-II SIMPLIFIED PROCEDURE FOR EVALUATION OF LIQUEFACTION POTENTIAL AS PER IS 1893 (PART-1)- 2016 BASED ON SPT "N"

Zone Factor / Horizontal ground acceleration (Z or a_{max}/g): 0.16 Location of Ground Water Table: EGL C_{HT} 1 C_{DS} 1

Atmospheric Pressure: 100.00 kPa Magnitude, Mw = 6 C_{MS} 1.05 C_{NM} 1

BH-01

Borehole Top in R.L.	Depth (m)	Depth in R.L.	"N" SPT Value	Type of Soil	γ (kN/m3)	Fines Content FC	σ_o (kPa)	σ_o' (kPa)	$\sigma_o/\sigma o'$	r_d	CSR $(0.65*(a_{max}/g)*(\sigma_o/\sigma o')*r_d)$	C_{RL}	C_{NO}	$N_{60}=NC_{60}$	C_E	$(N_1)_{60}=C_N*NC_{60}$	α	β	$(N_1)_{60CS}=\alpha+\beta(N_1)_{60}$	$CRR_{7.5}$	CRR	Factor of Safety FOS=1 CRR/CSR	Possibility of Liquefaction
0	1.25	-1.25	12	Silty Clay	18.50	100	23	11	2.13	0.99	0.22	0.75	0.79	9	1.70	16	0.50	1.20	19.8	0.21	0.38	-	Non-Liquefiable
	3.00	-3.00	24	Silty Clay	20.50	100	59	30	2.00	0.98	0.20	0.75	0.79	19	1.70	32	0.50	1.20	39.1	0.09	0.15	-	Non-Liquefiable
	4.00	-4.00	8	Silty Sand	14.50	22	74	34	2.15	0.97	0.22	0.85	0.89	5	1.70	9	3.88	1.09	13.8	0.15	0.26	1.21	Non-Liquefiable
	5.00	-5.00	10	Silty Sand	15.00	12	89	39	2.24	0.96	0.22	0.85	0.89	9	1.59	14	1.82	1.03	16.3	0.17	0.31	1.37	Non-Liquefiable
	6.00	-6.00	3	Silty Sand	13.00	12	102	43	2.38	0.95	0.24	0.95	1.00	3	1.53	5	1.66	1.03	6.4	0.08	0.15	0.62	Liquefiable
	7.50	-7.50	13	Silty Sand	16.50	9	126	53	2.40	0.94	0.23	0.95	1.00	13	1.38	18	0.85	1.02	18.8	0.20	0.38	1.52	Non-Liquefiable
	9.00	-9.00	9	Silty Sand	14.50	12	148	60	2.48	0.93	0.24	0.95	1.00	9	1.29	12	1.69	1.03	13.7	0.15	0.26	1.09	Non-Liquefiable
	10.50	-10.50	30	Silty Sand	19.00	13	177	73	2.40	0.89	0.22	1.00	1.05	32	1.17	37	1.70	1.04	39.8	0.12	0.21	-	Non-Liquefiable
	12.00	-12.00	32	Silty Sand	19.50	18	206	86	2.34	0.85	0.21	1.00	1.05	34	1.07	36	3.19	1.07	41.3	0.17	0.29	1.41	Non-Liquefiable

BH-02

Borehole Top in R.L.	Depth (m)	Depth in R.L.	"N" SPT Value	Type of Soil	γ (kN/m3)	Fines Content FC	σ_o (kPa)	σ_o' (kPa)	$\sigma_o/\sigma o'$	r_d	CSR $(0.65*(a_{max}/g)*(\sigma_o/\sigma o')*r_d)$	C_{RL}	C_{NO}	$N_{60}=NC_{60}$	C_E	$(N_1)_{60}=C_N*NC_{60}$	α	β	$(N_1)_{60CS}=\alpha+\beta(N_1)_{60}$	$CRR_{7.5}$	CRR	Factor of Safety FOS=1 CRR/CSR	Possibility of Liquefaction
0	1.25	-1.25	8	Silty Clay	16.50	100	21	8	2.47	0.99	0.25	0.75	0.79	6	1.70	11	0.50	1.20	13.4	0.14	0.25	-	Non-Liquefiable
	2.00	-2.00	14	Silty Clay	18.50	100	35	16	2.28	0.98	0.23	0.75	0.79	11	1.70	19	0.50	1.20	23.0	0.28	0.45	-	Non-Liquefiable
	4.00	-4.00	5	Silty Sand	14.00	15	63	24	2.63	0.97	0.27	0.85	0.89	4	1.70	8	2.55	1.05	10.5	0.12	0.21	0.78	Liquefiable
	5.00	-5.00	4	Silty Sand	13.50	15	77	28	2.77	0.96	0.28	0.85	0.89	4	1.70	6	2.41	1.05	9.6	0.10	0.18	0.65	Liquefiable
	6.00	-6.00	2	Silty Sand	13.00	15	89	30	2.94	0.95	0.29	0.85	0.89	2	1.70	3	3.15	1.06	6.4	0.08	0.15	0.50	Liquefiable
	7.50	-7.50	11	Silty Sand	15.50	0	113	39	2.89	0.94	0.28	0.95	1.00	11	1.00	18	0.02	1.00	17.7	0.19	0.33	1.18	Non-Liquefiable
	9.00	-9.00	12	Silty Sand	16.00	9	137	48	2.85	0.93	0.27	0.95	1.00	12	1.44	17	0.59	1.02	18.1	0.19	0.34	1.25	Non-Liquefiable
	10.50	-10.50	19	Silty Sand	18.00	8	164	60	2.70	0.89	0.25	1.00	1.05	20	1.29	28	0.03	1.00	25.8	0.31	0.59	2.17	Non-Liquefiable
	12.00	-12.00	31	Silty Sand	19.50	17	193	75	2.57	0.85	0.23	1.00	1.05	33	1.15	38	3.01	1.08	42.8	0.20	0.35	1.55	Non-Liquefiable

BH-03

Borehole Top in R.L.	Depth (m)	Depth in R.L.	"N" SPT Value	Type of Soil	γ (kN/m3)	Fines Content FC	σ_o (kPa)	σ_o' (kPa)	$\sigma_o/\sigma o'$	r_d	CSR $(0.65*(a_{max}/g)*(\sigma_o/\sigma o')*r_d)$	C_{RL}	C_{NO}	$N_{60}=NC_{60}$	C_E	$(N_1)_{60}=C_N*NC_{60}$	α	β	$(N_1)_{60CS}=\alpha+\beta(N_1)_{60}$	$CRR_{7.5}$	CRR	Factor of Safety FOS=1 CRR/CSR	Possibility of Liquefaction
0	1.25	-1.25	14	Silty Clay	19.50	74	24	12	2.01	0.99	0.21	0.75	0.79	11	1.70	19	0.50	1.20	23.0	0.28	0.45	-	Non-Liquefiable
	3.00	-3.00	19	Silty Sand	18.00	48	58	26	2.11	0.98	0.21	0.80	0.84	16	1.70	27	0.50	1.20	33.1	1.30	2.30	10.74	Non-Liquefiable
	4.00	-4.00	20	Silty Sand	18.00	9	74	35	2.13	0.97	0.22	0.85	0.89	18	1.70	30	0.68	1.02	31.6	0.64	1.14	5.29	Non-Liquefiable
	5.00	-5.00	12	Silty Sand	18.00	14	90	41	2.20	0.96	0.22	0.85	0.89	11	1.57	17	2.14	1.04	19.8	0.21	0.37	1.69	Non-Liquefiable
	7.50	-7.50	10	Silty Sand	15.00	28	128	53	2.39	0.94	0.23	0.95	1.00	10	1.38	14	4.56	1.14	20.2	0.22	0.39	1.64	Non-Liquefiable
	9.00	-9.00	26	Silty Sand	19.00	12	155	67	2.33	0.93	0.23	0.95	1.00	26	1.23	32	1.52	1.03	34.3	-3.21	-5.67	-	Non-Liquefiable
	10.50	-10.50	32	Silty Sand	19.50	6	184	81	2.27	0.89	0.21	1.00	1.05	34	1.11	37	0.02	1.00	37.5	-0.01	-0.02	-	Non-Liquefiable
	12.00	-12.00	29	Silty Sand	19.00	41	213	95	2.24	0.85	0.20	1.00	1.05	30	1.03	31	0.50	1.20	38.0	0.03	0.05	-	Non-Liquefiable
	14.00	-14.00	43	Silty Sand	20.00	32	253	115	2.19	0.80	0.18	1.00	1.05	45	0.93	42	4.85	1.17	54.2	0.36	0.61	3.37	Non-Liquefiable

NOTE: $(N_1)_{60}>30$; The Soil is classed as Non- Liquefiable

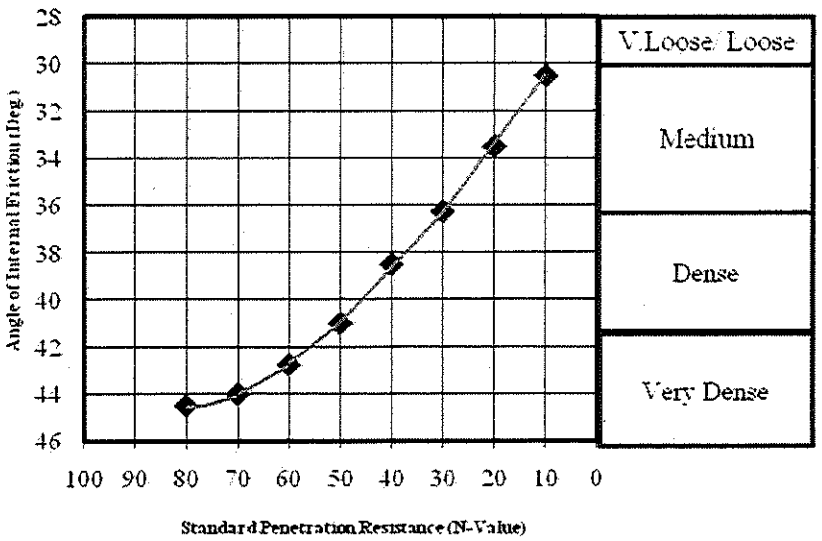


FIG. A1 Relation Ship between Angle of Internal Friction & N-value (Reproduced from IS:6403-1981)

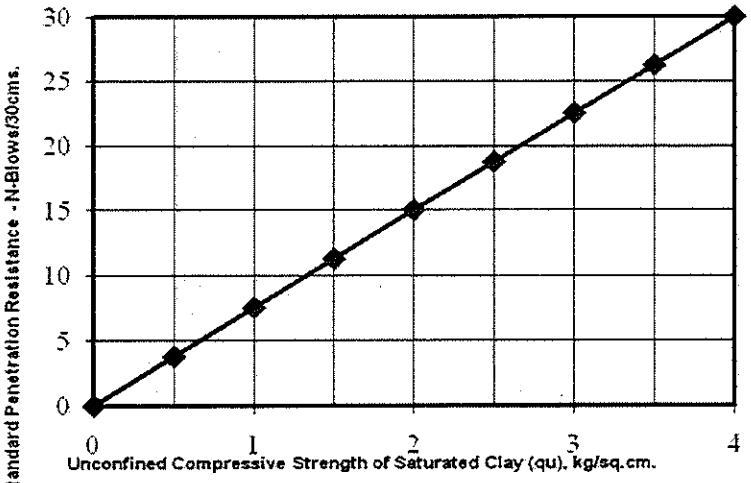
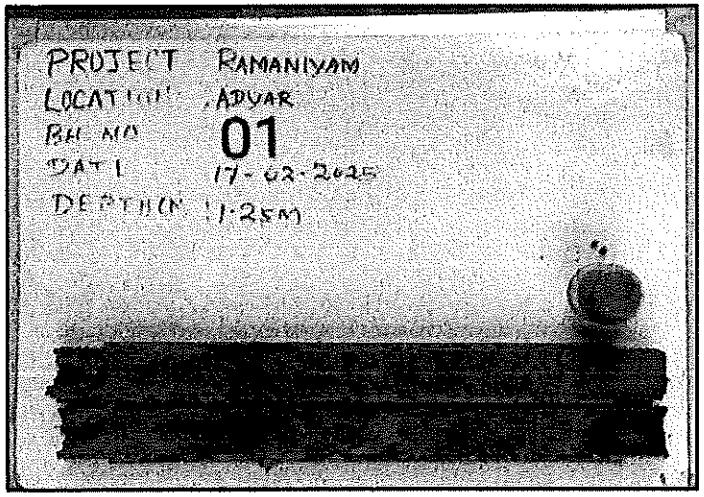
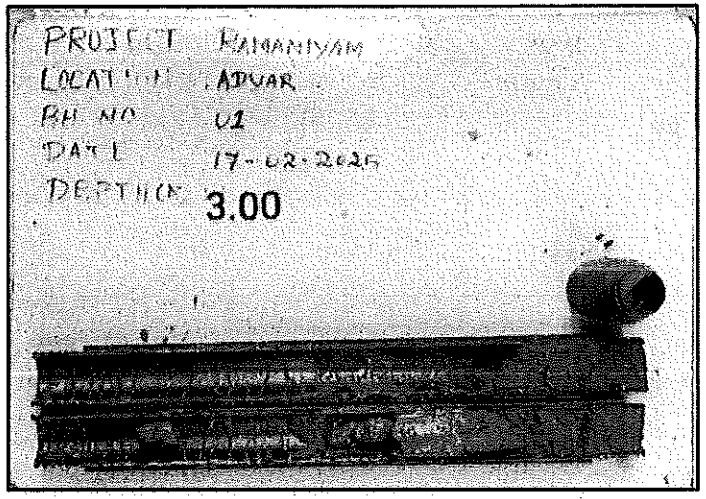
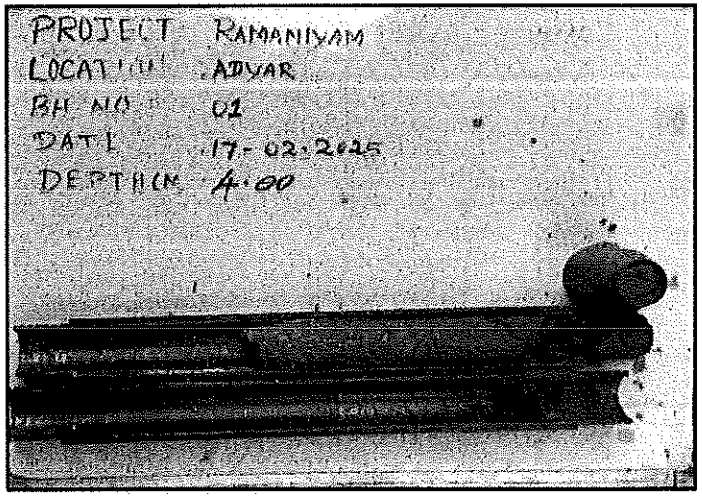


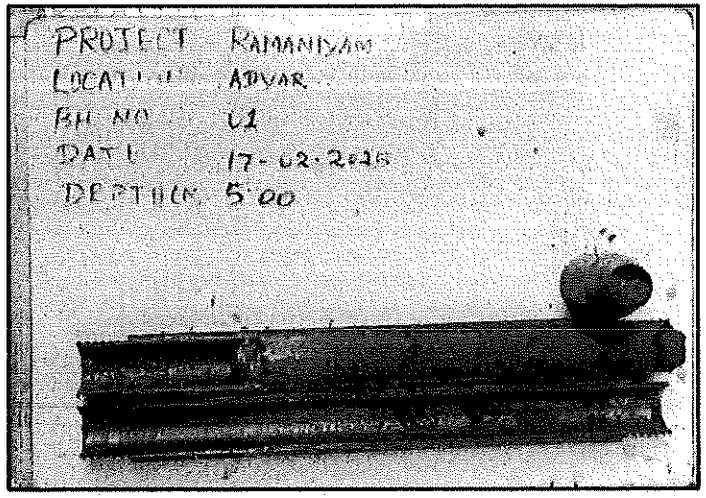
FIG. A2 : Relationship between UCC & SPT-Value (N) of Saturated Clay (AfterTerzhagi & Peck, 1948)

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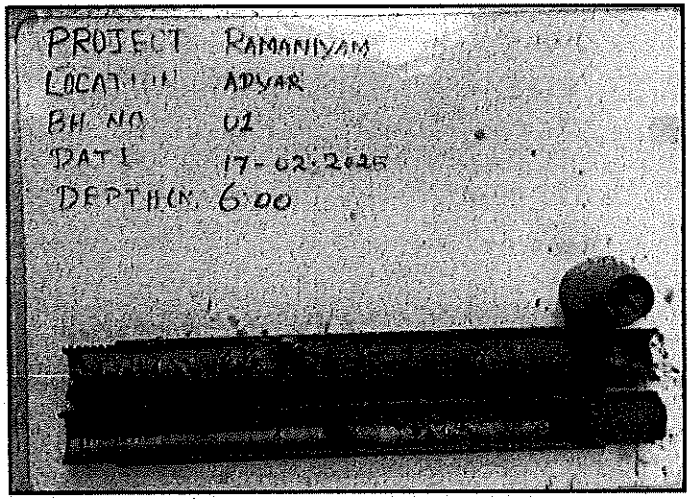


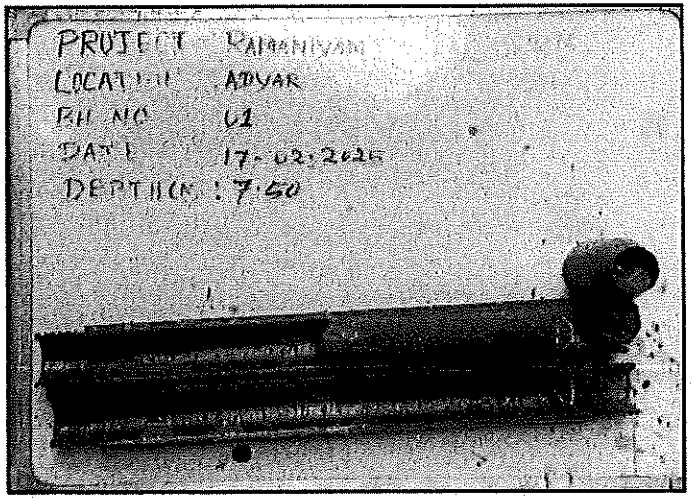


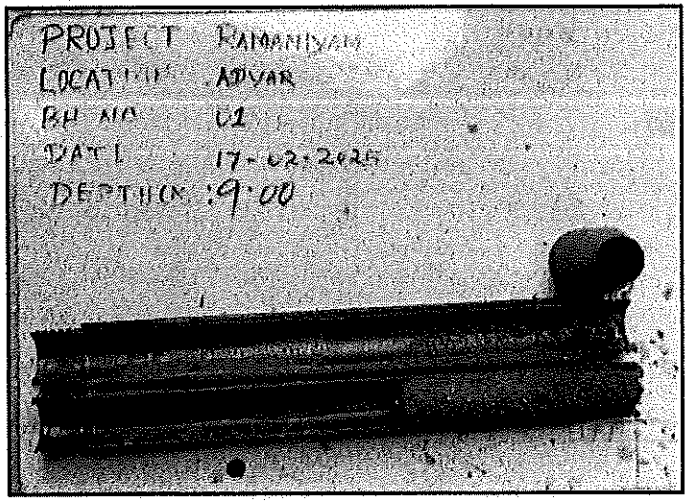


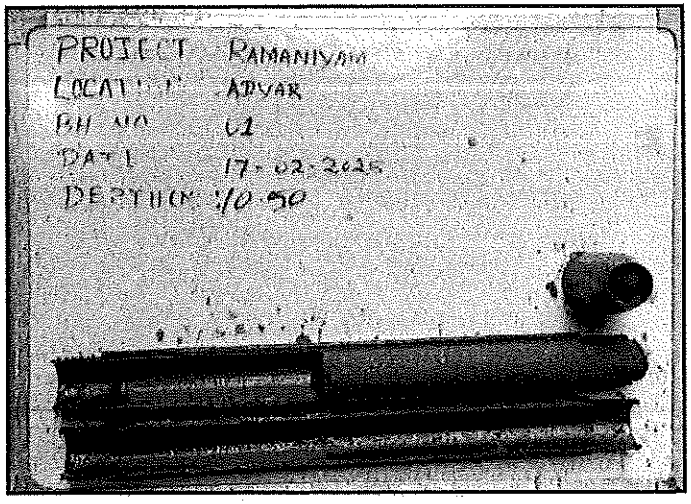


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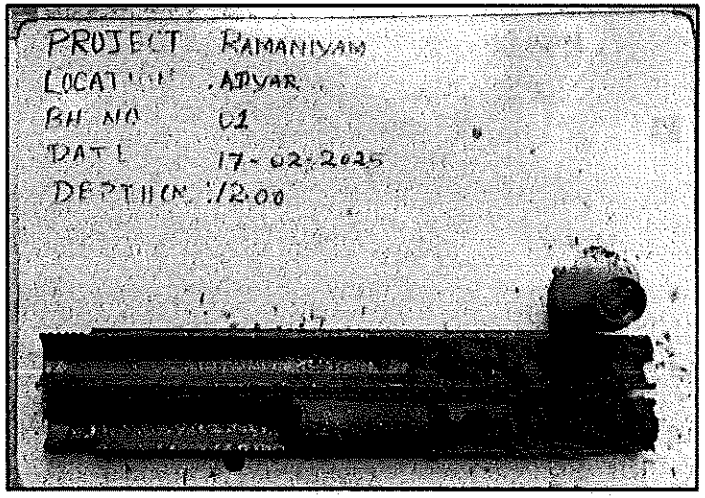


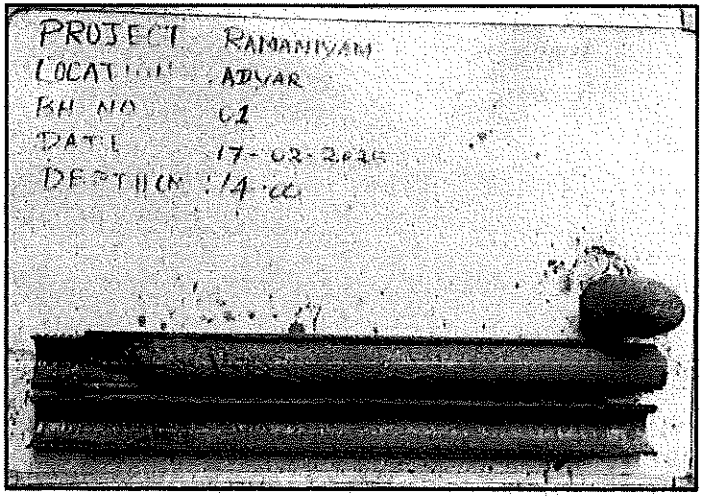


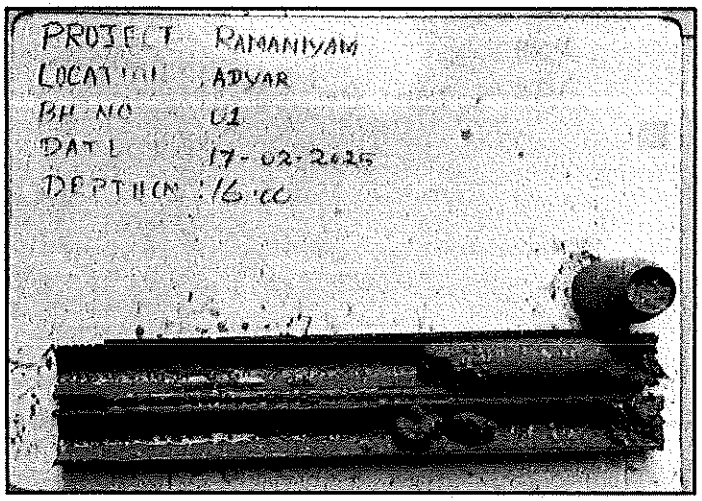


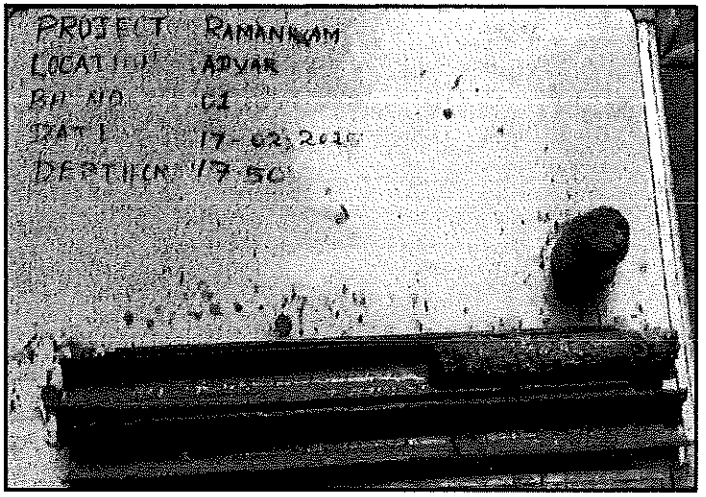


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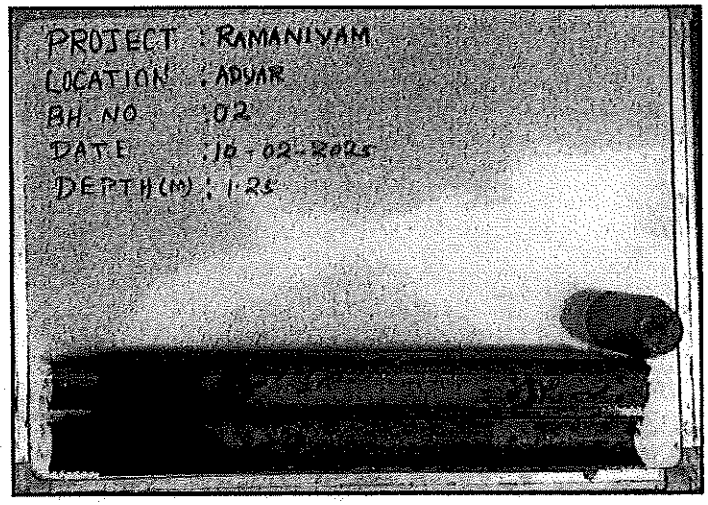


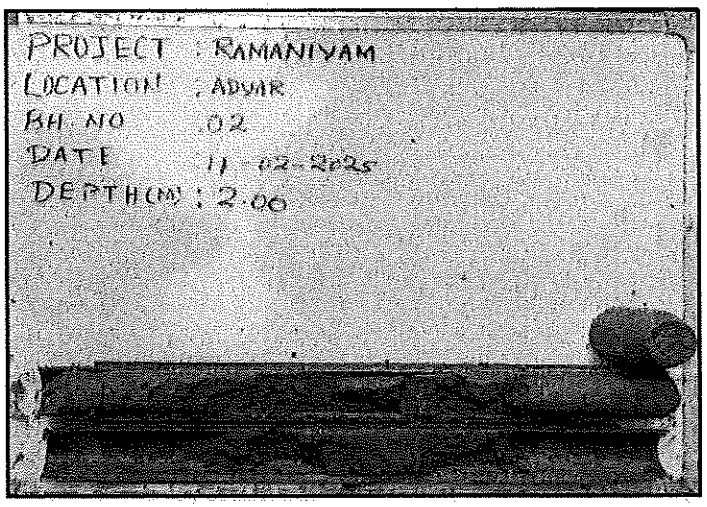


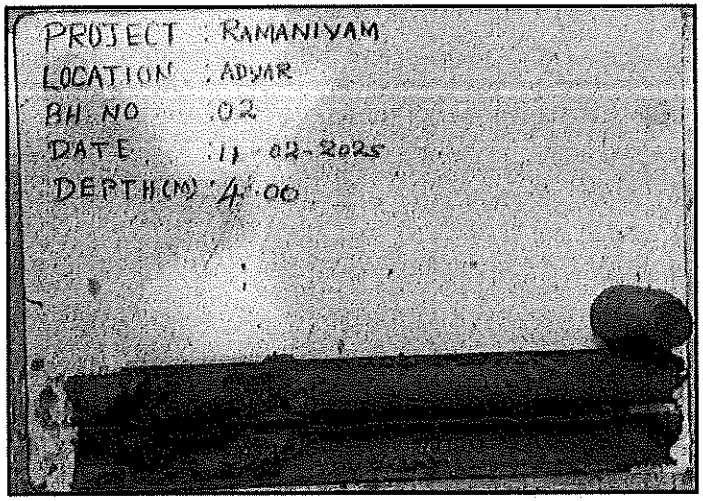


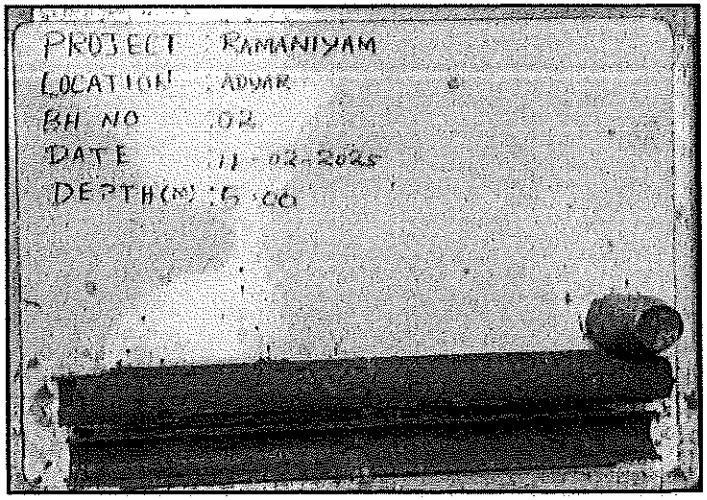


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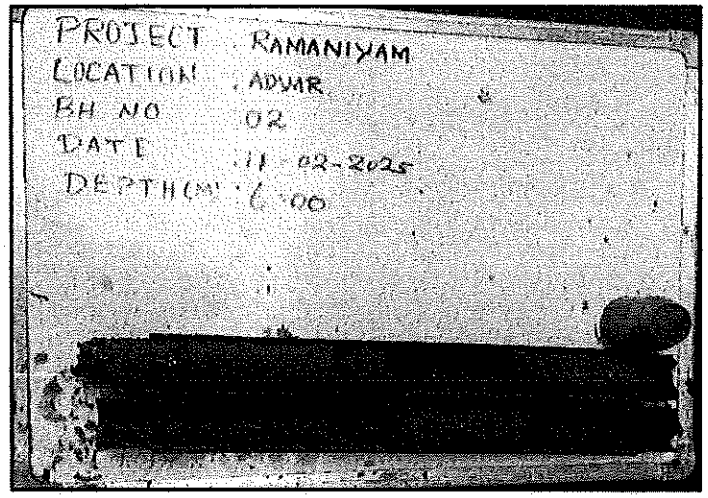


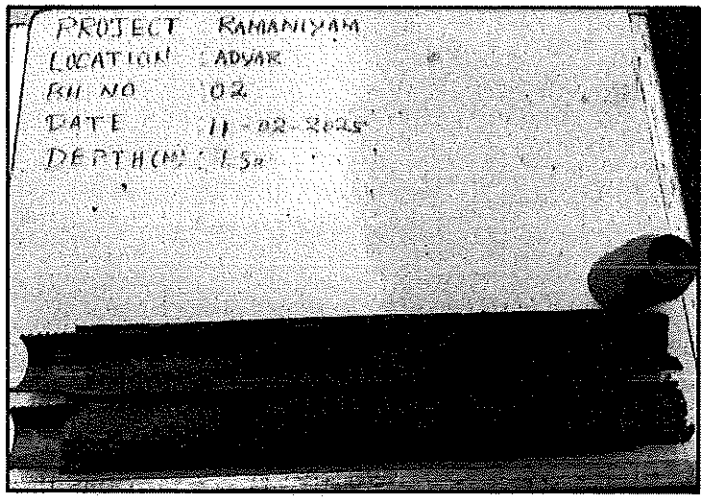


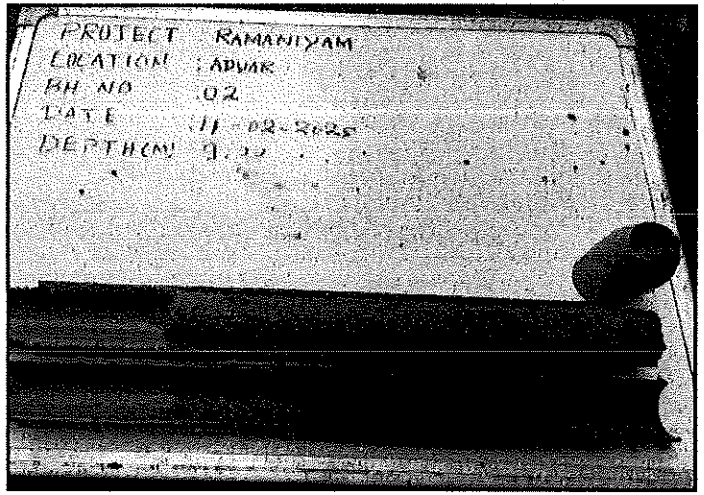


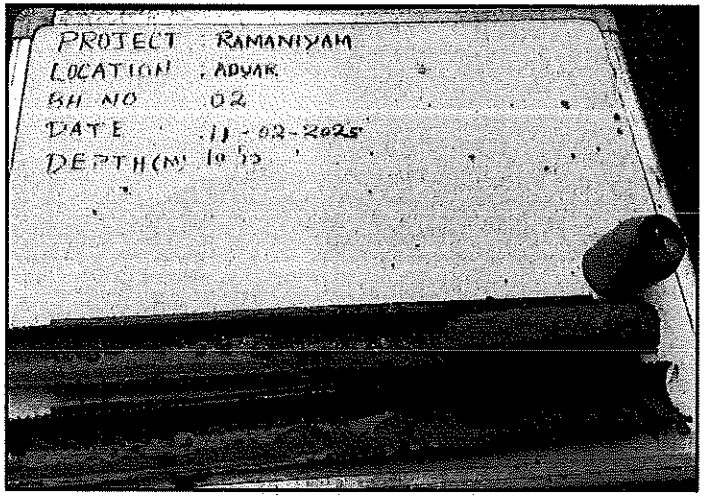


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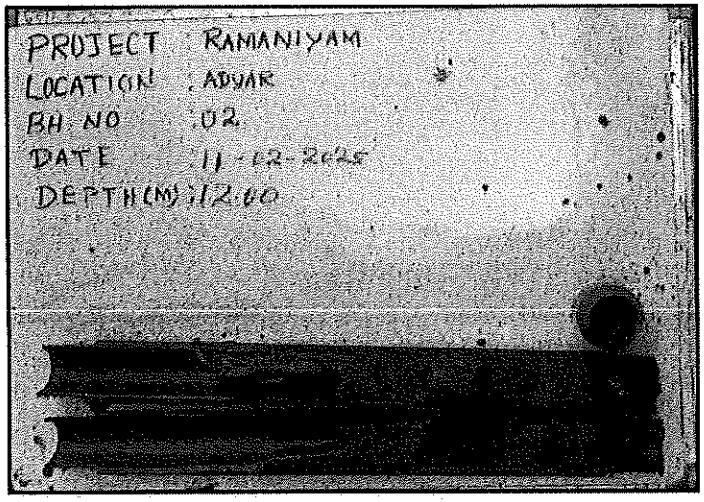


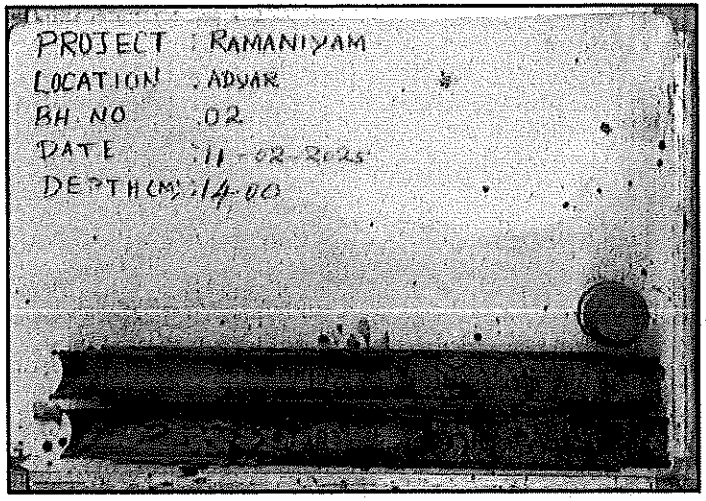


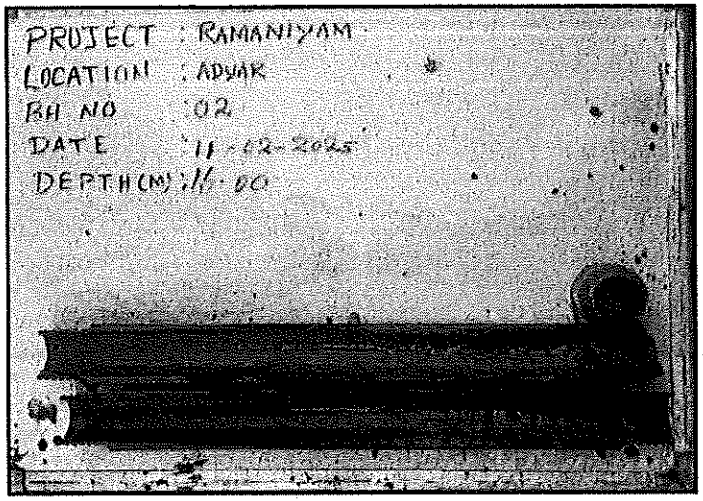


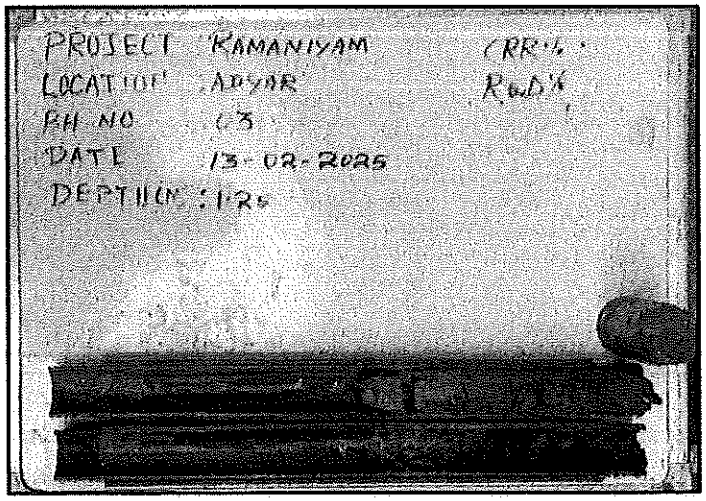


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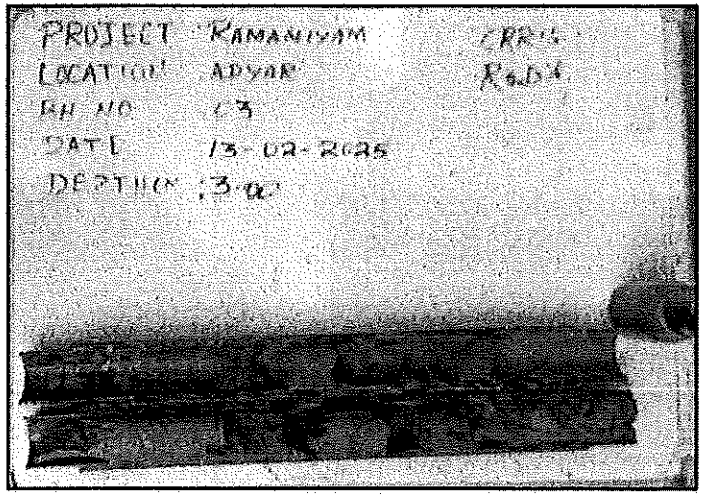

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DEPTH(M) : 12.00

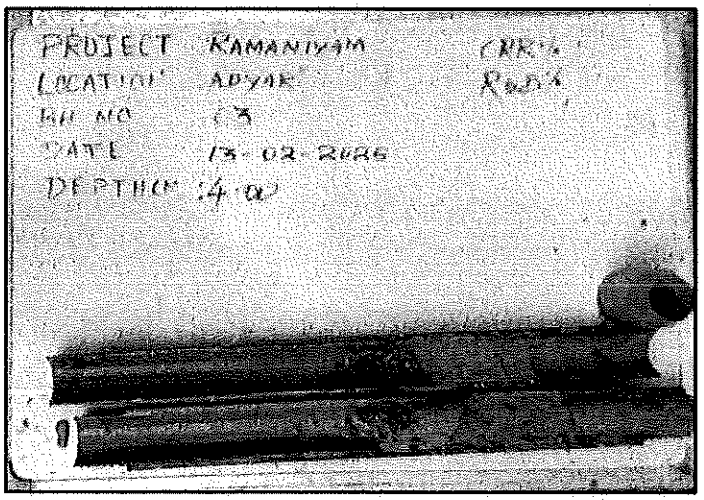

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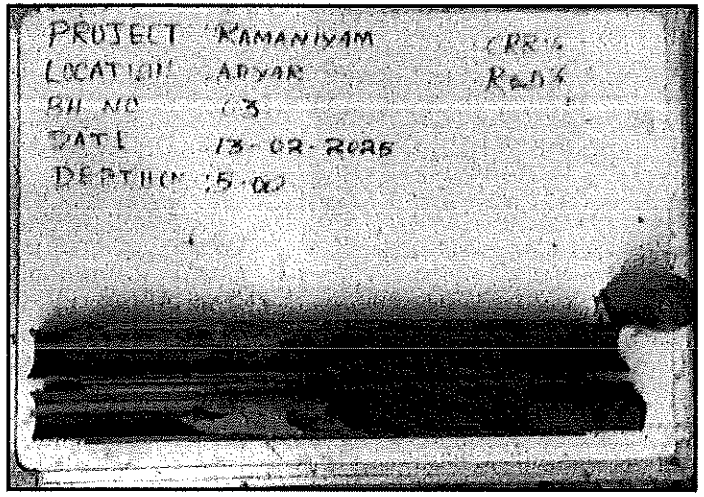

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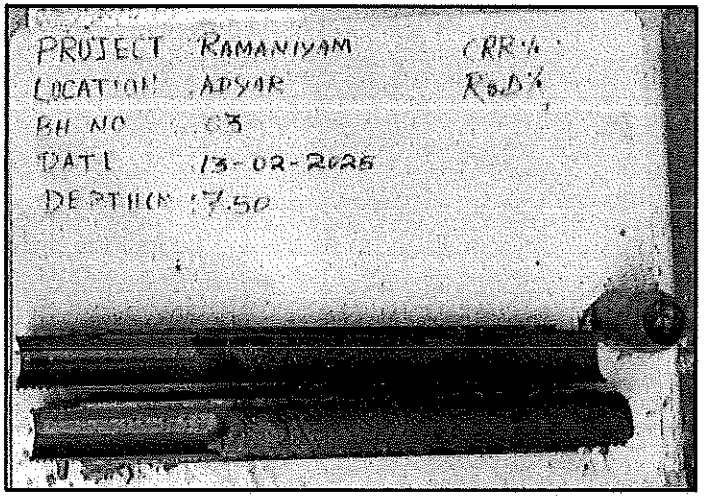

PROJECT : RAMANIYAM
LOCATION : ADYAR
BH NO : 03
DATE : 13-02-2025

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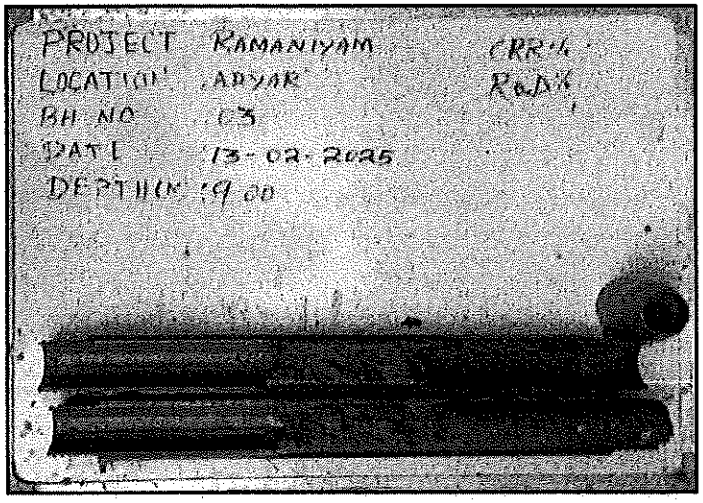


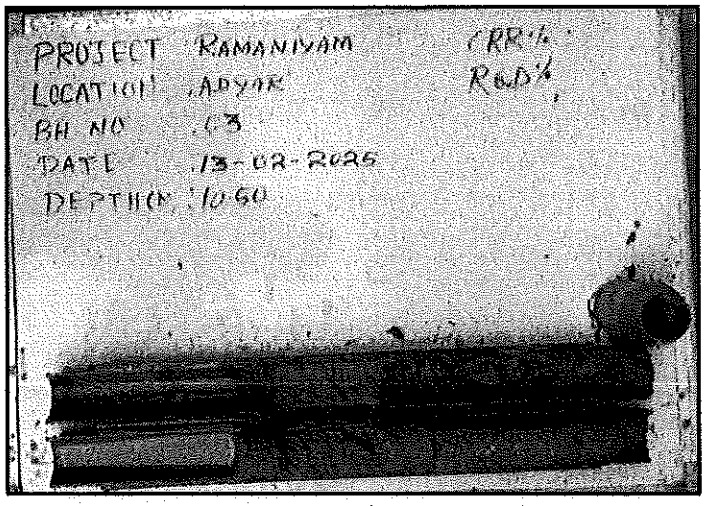


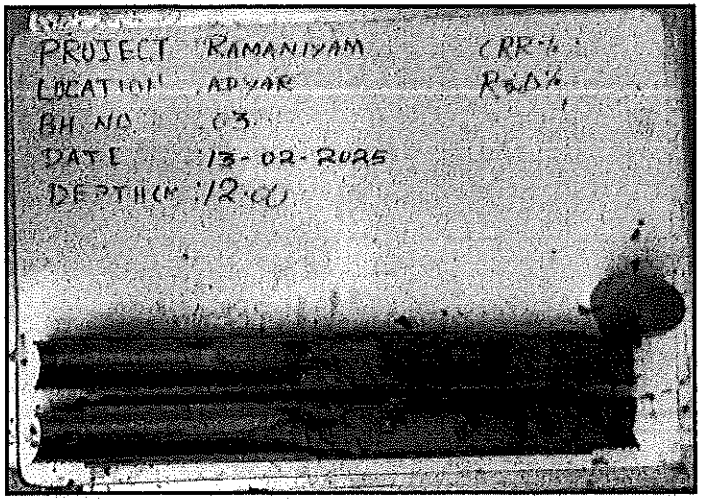


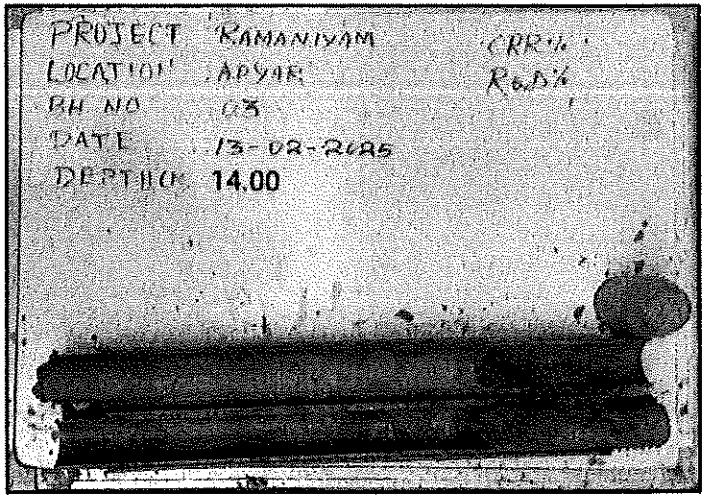


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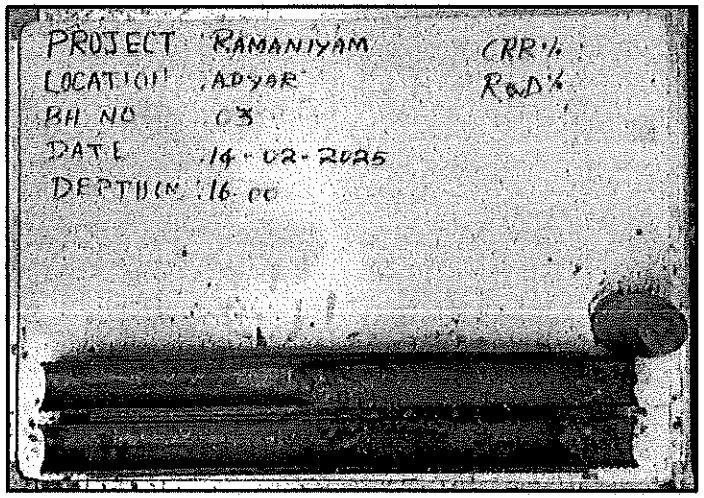






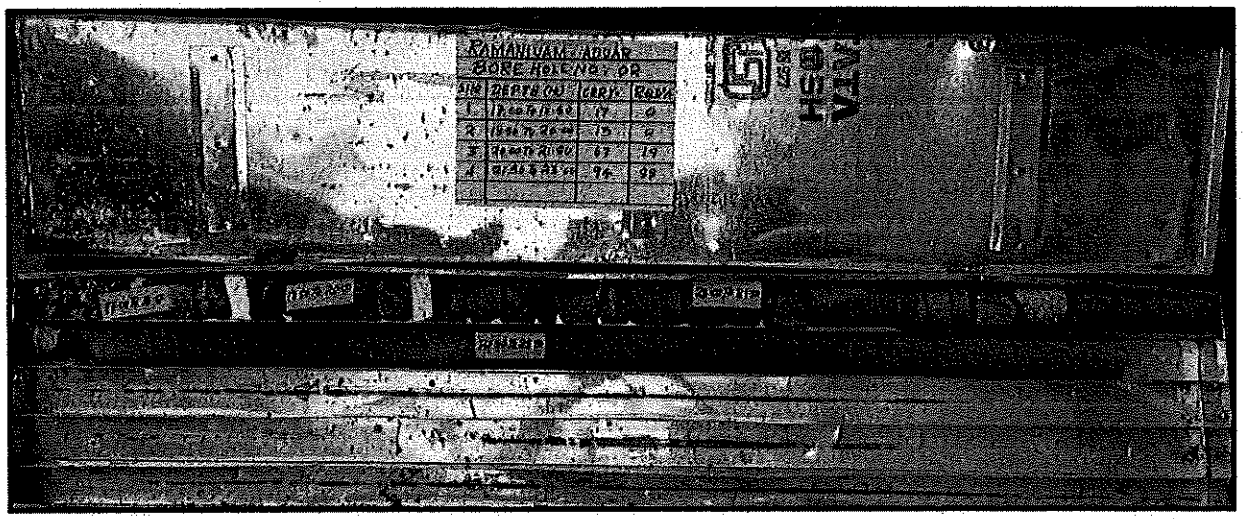


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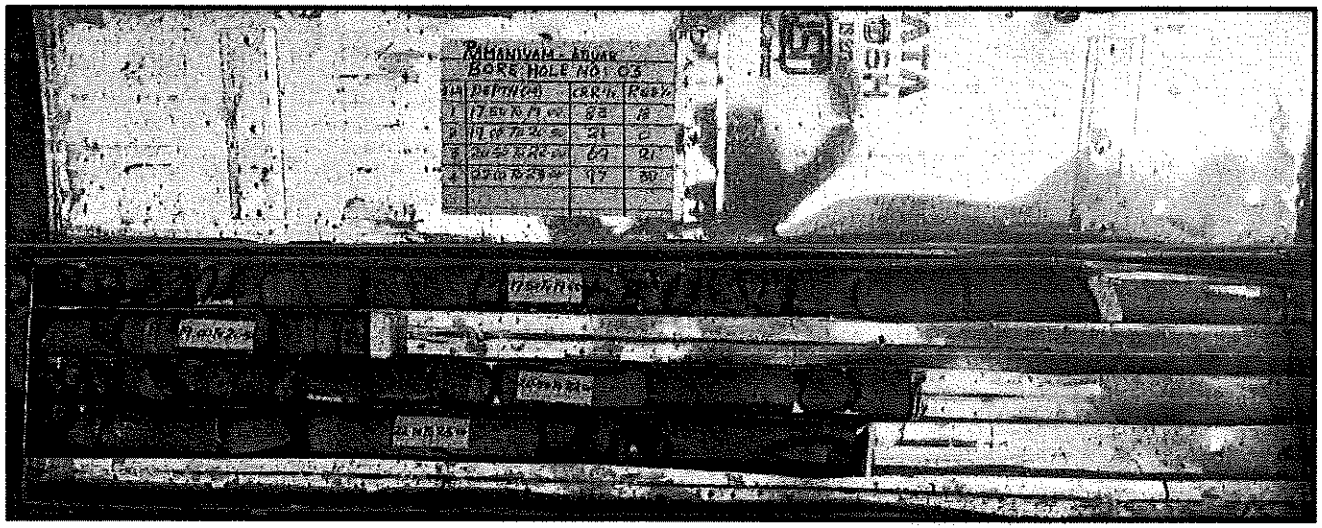


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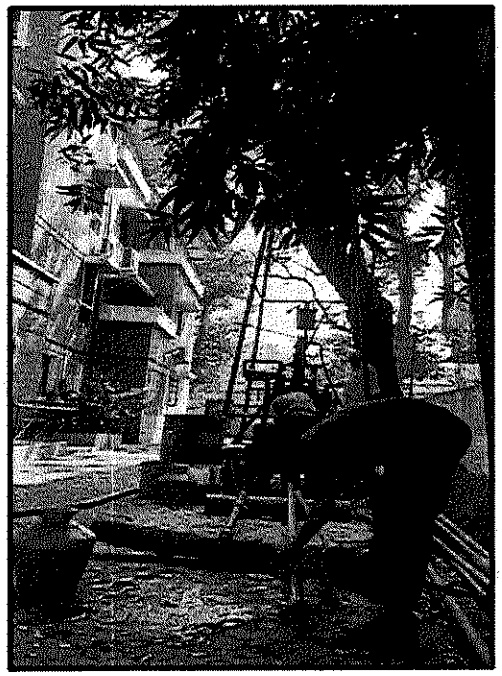


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THE LANDLENS SUITE

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

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

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

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

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

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

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

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

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

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

FREE TOOLS · NO ACCOUNT NEEDED

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

Records and verification

The registers themselves, read for you.

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

Value and duty

What it is worth and what it costs to register.

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

Zoning and land use

What the plan says can happen on this land.

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

Registers and directories

Who holds it, and which office keeps the record.

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

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

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

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

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