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DIGITALLY VERIFIED RECORD

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CIVIL & STRUCTURAL, APPROVED VALUER,
CMDA REGN NOS: SE / GR - I / 2019 / 03 / 24 , QA / 2019 / 04 / 21.
CORPORATION OF CHENNAI , REGN NO: RSE100172019.

FLAT NO:3B, RAMANIYAM GAURAVV 2
BLOCK-2, MODEL SCHOOL ROAD,
SHOLINGANALLUR, CHENNAI – 107.
MOBILE : 98412 69154

16/09/2024

CERTIFICATE

IT IS CERTIFIED THAT THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00M HEIGHT) AT OLD DOOR NOS.268 & 269, NEW DOOR NOS.66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI – 600 014 AND COMPRISED IN R.S.NO.423 AS PER DOCUMENT & R.S.NO.423/1 & 423/2 AS PER PATTA, BLOCK NO.08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION, ZONE – IX, DIVISION – 119, 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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PROPOSED HIGH RISE RESIDENTIAL BUILDING

"RAMANIYAM REGAL"

AT OLD DOOR NOS.268 & 269, NEW DOOR NOS.66 & 68, ROYAHPETTAH HIGH ROAD, ROYAHPETTAH, CHENNAI-600 014

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 – 18 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 Isolated Footing 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
50mm sunken portions in toilets, Balcony &Lobby	0.8kN/m^2
375 mm sunken portions in toilets	7.1kN/m^2
150mm Weathering course in terrace	3kN/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.

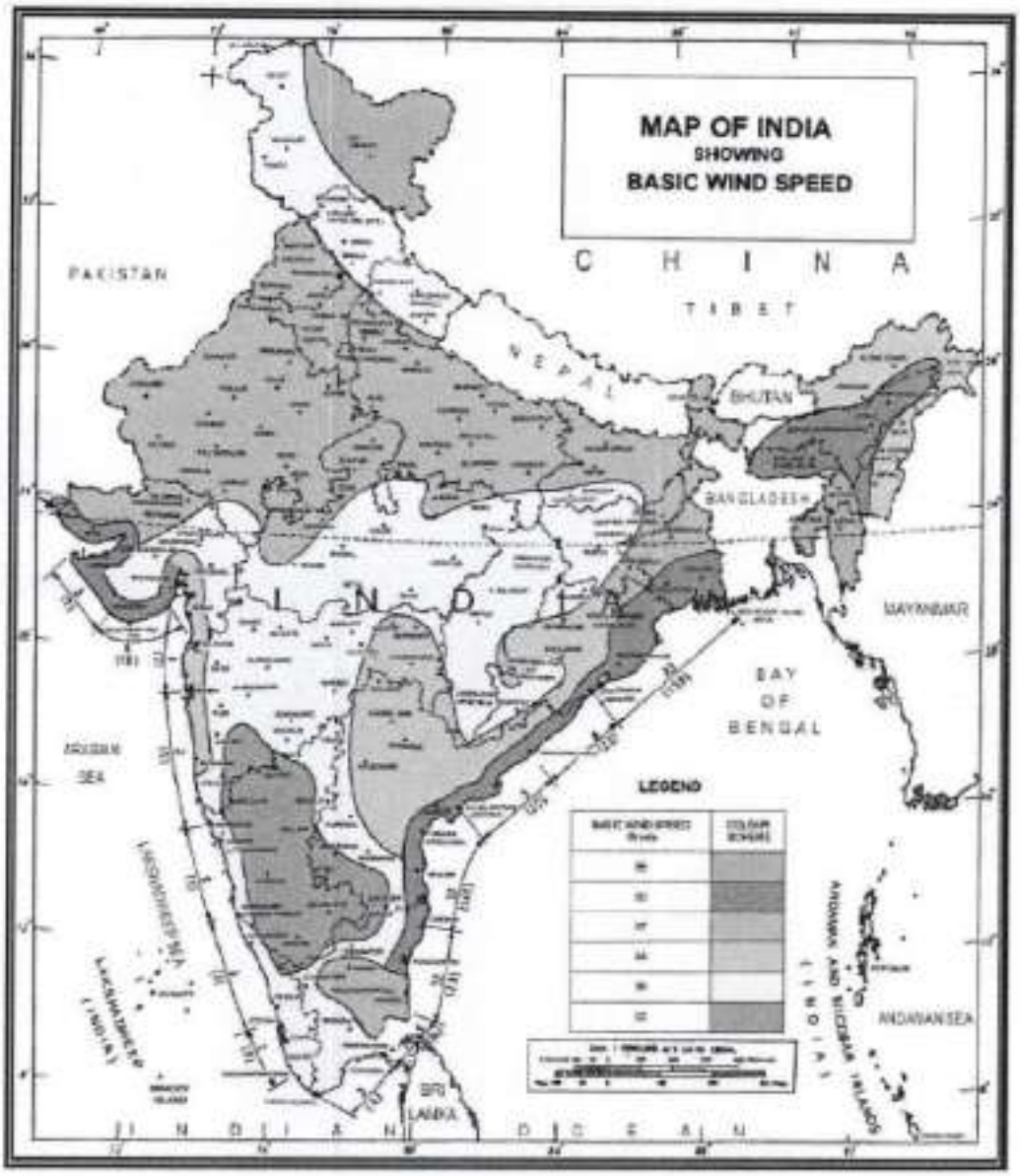
Description	Data	Remarks
Basic Wind Speed, V_b	50 m/s	Chennai
Probability Factor (Risk Co-efficient), k_1	1.00	General buildings & Structures (for return period of 50 years)
Terrain Category	3	Terrain with numerous closely spaced obstructions having the size of Buildings/structures up to 10 m in height 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 31m 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)	4	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.

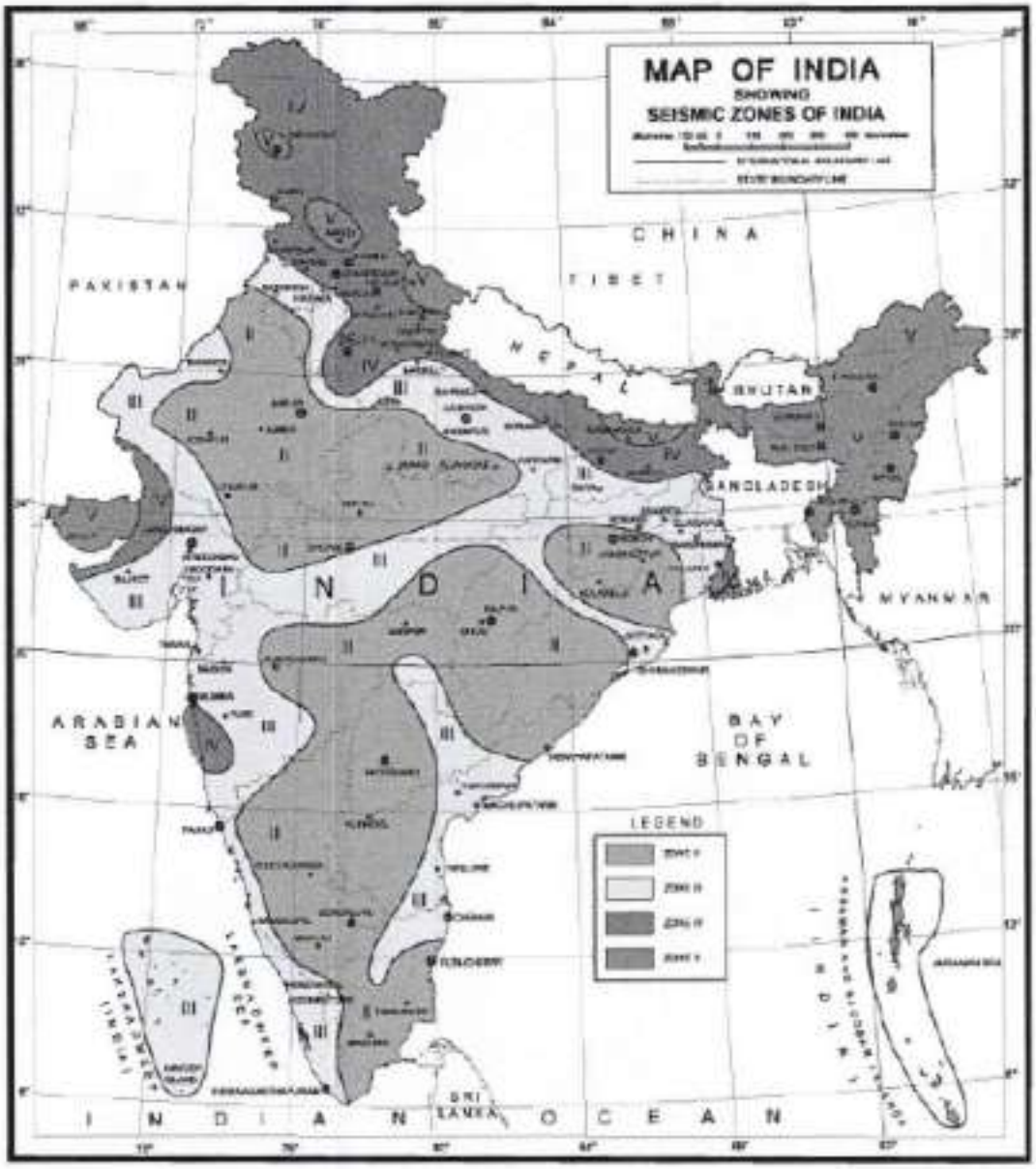
T_a = 0.09h/√d

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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 structural walls with RC OMRFs 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

on behalf of CMDA MCB Panel, the structural design calculations are generally in order and reviewed.

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

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)

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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 M25 (f_{ck}=25 N/mm^2) for isolated, combined foundation, Roof Beam & Slabs, Overhead water Tank and UG water Tank

Grade M40 (f_{ck}=N/mm^2) for shear 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 Fe500D/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 isolated & combined footing and SBC considered for the design is 250kN/m^2 the founding depth is to be 2.0m as per soil report.

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 to 150mm.

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
Foundation/Raft	Moderate	50		50
Column	Mild	40	40	40
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 1904-1995	Coe of Practice for design and construction of Shallow Foundation
8.	IS1080-1997	Code of Practice for design and construction of Shallow Foundation
9.	IS2950-1998	Code of Practice for design and construction of Raft Foundation
10.	SP16 – 1980	Design Aids for Reinforced Concrete to IS 456
11.	SP34	Handbook on concrete reinforcement and detailing

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FOOTING DESIGN CALCULATIONS

Footing No	:	F1	
Column No	:	C1,C5,C29,C31,C33(300mmX800mm)	
Analysis No	:	1,5,31,33,35	
Concrete Grade	:	M25	N/sqmm
Steel Grade	:	Fe500	N/sqmm
Clear Cover	:	50	mm
Df	:	2M	
Dw	:	5.5M	
Density of Soil	=	18	kN/cum
Soil Bearing Capacity	=	250	kN/sqm
Permissible SBC Increase for EQ	=	25	%
Permissible SBC Increase for Wind	=	25	%
Live Load Reduction	=	0	%
Permissible area of loss of contact	=	0	%
Design cross section by	:	Average pressure	
Footing Type	:	Pad	
Footing Size (LxBxD)	:	2650mmX2650mmX750mm	

Without considering Effect of Water Table

Footing Self Wt.,F1	=	131.67	kN
Soil Weight, S1 Total	=	0.00	kN
Weight,W1	=	F1+S1 131.67	
	=		kN
Offset Along L(Loff)	=	925	mm
Offset Along B(Boff)	=	1175	mm

Check For Maximum Soil Pressure:

Critical Column No	=	C31	
Critical Analysis Load Combination	=	19	
Critical Load Combination	=	[5]:(LOAD1:DL)	+(LOAD11:RS+Z)
Pcomb P	=	1510.85	kN
P	=	Pcomb + W1 1642.52	
	=		kN
Mx	=	127.32	kNm
My	=	14.79	kNm
P/A	=	233.89	kN/sqm
Mx/Zx	=	41.05	kN/sqm
My/Zy	=	4.77	kN/sqm
Maximum Soil Pressure	=	279.71	kN/sqm

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Allowable Soil Pressure	=	1.25x250	kN/sqm
	=	312.5	kN/sqm

Check For Minimum Soil Pressure:

Critical Column No	=	C29	
Critical Analysis Load Combination	=	21	
Critical Load Combination	=	[7]:(LOAD1:DL)+ (LOAD13:WL(+X))	
Pcomb	=	1000.82	kN
P	=	Pcomb +W1	
P	=	1132.49	kN
Mx	=	23.78	kNm
My	=	2.78	kNm
P/A	=	161.27	kN/sqm
Mx/Zx	=	7.67	kN/sqm
My/Zy	=	0.9	kN/sqm
Minimum Soil Pressure	=	152.7	kN/sqm
	>	0	

Design For Bending:

Bottom Reinforcement Along L:

Critical Column No	=	C31	
Critical Analysis Load Combination	=	51	
Critical Load Combination	=	[79] : 1.5 (LOAD 1: DL)RS+Z)	+1.5(LOAD11:
Pu	=	2266.27	kN
Mux	=	190.97	kNm
Muy	=	22.18	kNm
P/A	=	322.72	kN/sqm
Mx/Zx	=	61.57	kN/sqm
My/Zy	=	7.15	kN/sqm
Deff	=	692	mm
Beff	=	2650	mm
SPu	=	384.29	kN/sqm
Mu	=	SPuXBXLoffXLoff/2	
	=	435.67	kNm
Pt	=	0.13	%
AstRqd(BM)	=	2385	sqmm

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AstPrv(DistributedAcrossTotal Width)	=	23-T12@125	
	=	2601	sqmm

Bottom Reinforcement Along B:

Critical Column No	=	C31	
Critical Analysis Load Combination	=	51	
Critical Load Combination	=	[79] : 1.5 (LOAD 1: DL) +1.5 (LOAD 11:RS+Z)	
Pu	=	2266.27	kN
Mux	=	190.97	kNm
Muy	=	22.18	kNm
P/A	=	322.72	kN/sqm
Mx/Zx	=	61.57	kN/sqm
My/Zy	=	7.15	kN/sqm
Deff	=	676	mm
Leff	=	2650	mm
SPu Mu	=	329.87	kN/sqm
	=	SPuXLXBoffXBoff/2	
	=	603.44	kNm
Pt	=	0.133	%
AstRqd(BM)	=	2385	sqmm
AstPrv(DistributedAcrossTotal Length)	=	23-T12@125	
	=	2601	sqmm

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Design For Shear:

One Way Shear Along L:

Critical Section @d from Column Face	=	692	mm
Critical Column No	=	C31	
Critical Analysis Load Combination	=	51	
Critical Load Combination	=	[79] : 1.5 (LOAD 1: DL)RS+Z)	+1.5(LOAD11:
Pu	=	2266.27	kN
Mux	=	190.97	kNm
Muy	=	22.18	kNm
P/A	=	322.72	kN/sqm
Mx/Zx	=	61.57	kN/sqm
My/Zy	=	7.15	kN/sqm
Deff	=	692	mm
Beff	=	2650	mm
SPu	=	384.29	kN/sqm
Vu	=	SPuX(Loff-d)XB	
	=	237.28	kN
Tv	=	Vu/(BeffXDeff)	
	=	0.13	N/sqmm
Tc	=	0.27	N/sqmm
Tv	<	Tc	

One Way Shear Along B:

CriticalSection@dfromColumnFace	=	676	mm
CriticalColumnNo	=	C31	
CriticalAnalysisLoadCombination	=	51	
CriticalLoadCombination	=	[79]:1.5(LOAD1:DL) +1.5 (LOAD 11:RS+Z)	
Pu	=	2266.27	kN
Mux	=	190.97	kNm
Muy	=	22.18	kNm
P/A	=	322.72	kN/sqm
Mx/Zx	=	61.57	kN/sqm
My/Zy	=	7.15	kN/sqm
Deff	=	676	mm
Leff	=	2650	mm
SPu	=	329.87	kN/sqm

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	=	SPuX(Boff-d)X L	
Vu			
	=	436.20	kN
	=	Vu/(LeffXDeff)	
Tv			
	=	0.24	N/sqmm
Tc	=	0.28	N/sqmm
Tv	<	Tc	

Design For Punching Shear:

CriticalSection@d/2fromColumnFace	=	342	mm
Critical Column No	=	C31	
Critical Analysis Load Combination	=	51	
Critical Load Combination	=	[79]:1.5(LOAD1:DL)+1.5(LOAD11: RS+Z)	
Pu	=	2266.27	kN
Mux	=	190.97	kNm
Muy	=	22.18	kNm
P/A	=	322.72	kN/sqm
Mx/Zx	=	61.57	kN/sqm
My/Zy	=	7.15	kN/sqm
Deff	=	684	mm
Leff	=	1484	mm
Beff	=	984	mm
Punching Perimeter	=	4936	mm
Punching Area	=	3376224	sqmm
SPu	=	Average Pressure	
	=	322.72	kN/sqm
Vu	=	SPuX((LXB)-(LeffXBeff))	
	=	1795.02	kN
Tv	=	Vu/Punching Area	
	=	0.532	N/sqmm
Tc	=	1.094	N/sqmm
Tv	<	Tc	

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Load Transfer Check For Load Transfer From Column To Footing

Critical Column No	=	C31	
Critical Analysis Load Combination	=	51	
Critical Load Combination	=	[79]:1.5(LOAD1:DL) +1.5 (LOAD 11:RS+Z)	
Pu	=	2266.27	kN
A2	=	0.24	sqm
A1	=	12.54	sqm
BaseArea	=	7.02	sqm
A1	>	Base Area	
Thus,A1	=	7.02	
Modification Factor	=	Square Root(A1/A2) 2 <=	
Square Root(A1/A2)	=	5.4083	
Thus, Modification Factor	=	2	
Concrete Bearing Capacity	=	0.45XFckXModificationFactorXColumnArea	
	=	5400	kN
Concrete Bearing Capacity	>	Pu, Hence Safe.	

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FOOTING DESIGN CALCULATIONS

Footing No	:	F2	
Column No	:	C2,C3,C11,C28,C30,C32 (300 mm X 800 mm)	
Analysis No	:	2,3,11,30,32,34	
Concrete Grade	:	M25	N/sqmm
Steel Grade	:	Fe500	N/sqmm
Clear Cover	:	50	mm
Df	:	2 M	
Dw	:	5.5 M	

Density of Soil	=	18	kN/cum
Soil Bearing Capacity	=	250	kN/sqm
Permissible SBC Increase for EQ	=	25	%
Permissible SBC Increase for Wind	=	25	%
Live Load Reduction	=	0	%
Permissible area of loss of contact	=	0	%

Design cross section by	:	Average pressure
Footing Type	:	Pad
Footing Size (L x B x D)	:	2850mm X 2850mm X 800mm

Without considering Effect of Water Table

Footing Self Wt., F1	=	162.45	kN
Soil Weight, S1	=	0.00	kN
Total Weight, W1	=	F1 + S1	kN
	=	162.45	
Offset Along L (Loff)	=	1025	mm
Offset Along B (Boff)	=	1275	mm

Check For Maximum Soil Pressure:

Critical Column No	=	C30	
Critical Analysis Load Combination	=	19	
Critical Load Combination	=	[5] : (LOAD 1: DL) +(LOAD 11: RS+Z)	
PcombP	=	1818.33	kN
P	=	Pcomb + W11980.78	kN
	=		
Mx	=	158.32	kNm
My	=	14.59	kNm
P/A	=	243.86	kN/sqm
Mx/Zx	=	41.04	kN/sqm
My/Zy	=	3.78	kN/sqm

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Maximum Soil Pressure	=	288.68	kN/sqm
Allowable Soil Pressure	=	1.25x250	kN/sqm
	=	312.5	kN/sqm

Check For Minimum Soil Pressure:

Critical Column No	=	C11	
Critical Analysis Load Combination	=	23	
Critical Load Combination	=	[9] : (LOAD 1: DL) + (LOAD 15: WL(+Z))	
Pcomb	=	1118.69	kN
P	=	Pcomb + W1	
P	=	1281.14	kN
Mx	=	29.19	kNm
My	=	-1.41	kNm
P/A	=	157.73	kN/sqm
Mx/Zx	=	7.57	kN/sqm
My/Zy	=	-0.37	kN/sqm
Minimum Soil Pressure	=	149.8	kN/sqm
	>	0	

Design For Bending:

Bottom Reinforcement Along L:

Critical Column No	=	C30	
Critical Analysis Load Combination	=	51	
Critical Load Combination	=	[79] : 1.5 (LOAD 1: DL) +1.5 (LOAD 11: RS+Z)	
Pu	=	2727.49	kN
Mux	=	237.48	kNm
Muy	=	21.89	kNm
P/A	=	335.79	kN/sqm
Mx/Zx	=	61.55	kN/sqm
My/Zy	=	5.67	kN/sqm
Deff	=	742	mm
Beff	=	2850	mm
SPu	=	397.35	kN/sqm
Mu	=	SPu X B X Loff X Loff / 2	

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	=	594.89	kNm
Pt	=	0.129	%
Ast Rqd (BM)	=	2736	sqmm
Ast Prv (Distributed Across Total Width)	=	27 - T12 @ 110	
	=	3054	sqmm

Bottom Reinforcement Along B:

Critical Column No	=	C3	
Critical Analysis Load Combination	=	51	
Critical Load Combination	=	[79] : 1.5 (LOAD 1: DL) +1.5 (LOAD 11: RS+Z)	
Pu	=	2740.6	kN
Mux	=	193.82	kNm
Muy	=	34.21	kNm
P/A	=	337.41	kN/sqm
Mx/Zx	=	50.24	kN/sqm
My/Zy	=	8.87	kN/sqm
Deff	=	726	mm
Leff	=	2850	mm
SPu	=	346.28	kN/sqm
Mu	=	SPu X L X Boff X Boff / 2	kNm
	=	802.16	
Pt	=	0.132	%
Ast Rqd (BM)	=	2736	sqmm
Ast Prv (Distributed Across Total Length)	=	27 - T12 @ 110	
	=	3054	sqmm

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Design For Shear:

One Way Shear Along L:

Critical Section @ d from Column Face

	=	742	mm
Critical Column No	=	C30	
Critical Analysis Load Combination	=	51	
Critical Load Combination	=	[79] : 1.5 (LOAD 1: DL) +1.5 (LOAD 11: RS+Z)	
Pu	=	2727.49	kN
Mux	=	237.48	kNm
Muy	=	21.89	kNm
P/A	=	335.79	kN/sqm
Mx/Zx	=	61.55	kN/sqm
My/Zy	=	5.67	kN/sqm
Deff	=	742	mm
Beff	=	2850	mm
SPu	=	397.35	kN/sqm
Vu	=	SPu X (Loff - d) X B	
	=	320.48	kN
	=	Vu / (Beff X Deff)	
Tv			
	=	0.15	N/sqmm
Tc	=	0.27	N/sqmm
Tv	<	Tc	

One Way Shear Along B:

Critical Section @ d from Column Face

	=	726	mm
Critical Column No	=	C351	
Critical Analysis Load Combination	=		
Critical Load Combination	=	[79] : 1.5 (LOAD 1: DL) +1.5 (LOAD 11: RS+Z)	
Pu	=	2740.6	kN
Mux	=	193.82	kNm
Muy	=	34.21	kNm
P/A	=	337.41	kN/sqm
Mx/Zx	=	50.24	kN/sqm
My/Zy	=	8.87	kN/sqm

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Deff	=	726	mm
Leff	=	2850	mm
SPu	=	346.28	kN/sqm
Vu	=	SPu X (Boff - d) X L	
	=	541.80	kN
Tv	=	Vu / (Leff X Deff)	
	=	0.26	N/sqmm
Tc	=	0.27	N/sqmm
Tv	<	Tc	

Design For Punching Shear:

Critical Section @ d/2 from Column Face

	=	367	mm
Critical Column No	=	C351	
Critical Analysis Load Combination	=		
Critical Load Combination	=	[79] : 1.5 (LOAD 1: DL) +1.5 (LOAD 11: RS+Z)	
Pu	=	2740.6	kN
Mux	=	193.82	kNm
Muy	=	34.21	kNm
P/A	=	337.41	kN/sqm
Mx/Zx	=	50.24	kN/sqm
My/Zy	=	8.87	kN/sqm
Deff	=	734	mm
Leff	=	1534	mm
Beff	=	1034	mm
Punching Perimeter	=	5136	mm
Punching Area	=	3769824	sqmm
SPu	=	Average Pressure	
	=	337.41	kN/sqm
Vu	=	SPu X ((L X B)-(Leff X Beff))	
	=	2205.42	kN
Tv	=	Vu / Punching Area	
	=	0.585	N/sqmm
Tc	=	1.094	N/sqmm
Tv	<	Tc	

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Load Transfer Check For Load Transfer From Column To Footing

Critical Column No	=	C3	
Critical Analysis Load Combination	=	51	
Critical Load Combination	=	[79] : 1.5 (LOAD 1: DL) +1.5 (LOAD 11: RS+Z)	
Pu	=	2740.6	kN
A2	=	0.24	sqm
A1	=	14	sqm
Base Area	=	8.12	sqm
A1	>	Base Area	
Thus, A1	=	8.12	
Modification Factor	=	Square Root(A1/A2) 2 < =	
Square Root(A1/A2)	=	5.8166	
Thus, Modification Factor	=	2	
Concrete Bearing Capacity	=	0.45 X Fck X Modification Factor X ColumnArea	
	=	5400	kN
Concrete Bearing Capacity	>	Pu, Hence Safe.	

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FOOTING DESIGN CALCULATIONS

Footing No	:	F3	
Column No	:	C4,C6,C7,C17,C22,C23,C24,C27 (300 mm X 800 mm)	
Analysis No	:	4,6,7,18,24,25,26,29	
Concrete Grade	:	M25	N/sqmm
Steel Grade	:	Fe500	N/sqmm
Clear Cover	:	50	mm
Df	:	2 M	
Dw	:	5.5 M	
Density of Soil	=	18	kN/cum
Soil Bearing Capacity	=	250	kN/sqm
Permissible SBC Increase forEQ	=	25	%
Permissible SBC Increase for Wind	=	25	%
Live Load Reduction	=	0	%
Permissible area of loss of contact	=	0	%
Design cross section by	:	Average pressure	
Footing Type	:	Pad	
Footing Size (L x B x D)	:	3100mm X 3100mm X 850mm	

Without considering Effect of Water Table

Footing Self Wt., F1	=	204.21	kN
Soil Weight, S1	=	0.00	kN
Total Weight, W1	=	F1 + S1	
	=	204.21	kN
Offset Along L (Loff)	=	1150	mm
Offset Along B (Boff)	=	1400	mm

Check For Maximum Soil Pressure:

Critical Column No	=	C24	
Critical Analysis Load Combination	=	25	
Critical Load Combination	=	[11] : (LOAD 1: DL) +0.8 (LOAD 2: LL) +0.8 (LOAD 9: RS+X)	
Pcomb	=	2185.45	kN
P	=	Pcomb + W1	
P	=	2389.66	kN
Mx	=	87.41	kNm
My	=	9.14	kNm
P/A	=	248.66	kN/sqm

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Mx/Zx	=	17.61	kN/sqm
My/Zy	=	1.84	kN/sqm
Maximum Soil Pressure	=	268.11	kN/sqm
Allowable Soil Pressure	=	1.25x250	kN/sqm
	=	312.5	kN/sqm

Check For Minimum Soil Pressure:

Critical Column No	=	C4	
Critical Analysis Load Combination	=	23	
Critical Load Combination	=	[9] : (LOAD 1: DL) +(LOAD 15: WL(+Z))	
Pcomb	=	1305.18	kN
P	=	Pcomb + W1	
P	=	1509.39	kN
Mx	=	22.42	kNm
My	=	1.13	kNm
P/A	=	157.06	kN/sqm
Mx/Zx	=	4.52	kN/sqm
My/Zy	=	0.23	kN/sqm
Minimum Soil Pressure	=	152.32	kN/sqm
	>	0	

Design For Bending:

Bottom Reinforcement Along L:

Critical Column No	=	C23	
Critical Analysis Load Combination	=	49	
Critical Load Combination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9: RS+X)	
Pu	=	3126.24	kN
Mux	=	182.89	kNm
Muy	=	18.85	kNm
P/A	=	325.31	kN/sqm
Mx/Zx	=	36.84	kN/sqm
My/Zy	=	3.8	kN/sqm
Deff	=	792	mm
Beff	=	3100	mm
SPu	=	362.15	kN/sqm
Mu	=	SPu X B X Loff X Loff / 2	
	=	742.35	kNm

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Pt	=	0.129	%
Ast Rqd (BM)	=	3162	sqmm
Ast Prv (Distributed Across Total Width)	=	19 - T16 @ 175	
	=	3820	sqmm

Bottom Reinforcement Along B:

Critical Column No	=	C24	
Critical Analysis Load Combination	=	4	
Critical Load Combination	=	[44] : 1.5 (LOAD 1: DL) +1.5 (LOAD 2: LL)	
Pu	=	3257.11	kN
Mux	=	0.82	kNm
Muy	=	1.46	kNm
P/A	=	338.93	kN/sqm
Mx/Zx	=	0.17	kN/sqm
My/Zy	=	0.29	kN/sqm
Deff	=	776	mm
Leff	=	3100	mm
SPu	=	339.22	kN/sqm
Mu	=	SPu X L X Boff X Boff / 2	kNm
	=	1030.56	
Pt	=	0.131	%
Ast Rqd (BM)	=	3162	sqmm
Ast Prv (Distributed Across Total Length)	=	19 - T16 @ 175	
	=	3820	sqmm

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Design For Shear:

One Way Shear Along L:

Critical Section @ d from Column Face

	=	792	mm
Critical Column No	=	C23	
Critical Analysis Load Combination	=	49	
Critical Load Combination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9: RS+X)	
Pu	=	3126.24	kN
Mux	=	182.89	kNm
Muy	=	18.85	kNm
P/A	=	325.31	kN/sqm
Mx/Zx	=	36.84	kN/sqm
My/Zy	=	3.8	kN/sqm
Deff	=	792	mm
Beff	=	3100	mm
SPu	=	362.15	kN/sqm
Vu	=	SPu X (Loff - d) X B	
	=	401.91	kN
Tv	=	Vu / (Beff X Deff)	
	=	0.16	N/sqmm
Tc	=	0.27	N/sqmm
Tv	<	Tc	

One Way Shear Along B:

Critical Section @ d from Column Face

	=	776	mm
Critical Column No	=	C24	
Critical Analysis Load Combination	=	4	
Critical Load Combination	=	[44] : 1.5 (LOAD 1: DL) +1.5 (LOAD 2: LL)	
Pu	=	3257.11	kN
Mux	=	0.82	kNm
Muy	=	1.46	kNm
P/A	=	338.93	kN/sqm
Mx/Zx	=	0.17	kN/sqm

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My/Zy	=	0.29	kN/sqm
Deff	=	776	mm
Leff	=	3100	mm
SPu	=	339.22	kN/sqm
Vu	=	SPu X (Boff - d) X L	
	=	656.19	kN
Tv	=	Vu / (Leff X Deff)	
	=	0.27	N/sqmm
Tc	=	0.27	N/sqmm
Tv	<	Tc	

Design For Punching Shear:

Critical Section @ d/2 from Column Face

	=	392	mm
Critical Column No	=	C24	
Critical Analysis Load Combination	=	4	
Critical Load Combination	=	[44] : 1.5 (LOAD 1: DL) +1.5 (LOAD 2: LL)	
Pu	=	3257.11	kN
Mux	=	0.82	kNm
Muy	=	1.46	kNm
P/A	=	338.93	kN/sqm
Mx/Zx	=	0.17	kN/sqm
My/Zy	=	0.29	kN/sqm
Deff	=	784	mm
Leff	=	1584	mm
Beff	=	1084	mm
Punching Perimeter	=	5336	mm
Punching Area	=	4183424	sqmm
SPu	=	Average Pressure	
	=	338.93	kN/sqm
Vu	=	SPu X ((L X B)-(Leff X Beff))	
	=	2675.15	kN
Tv	=	Vu / Punching Area	
	=	0.639	N/sqmm
Tc	=	1.094	N/sqmm
Tv	<	Tc	

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Load Transfer Check For Load Transfer From Column To Footing

Critical Column No	=	C24	
Critical Analysis Load Combination	=	4	
Critical Load Combination	=	[44] : 1.5 (LOAD 1: DL) +1.5 (LOAD 2: LL)	
Pu	=	3257.11	kN
A2	=	0.24	sqm
A1	=	15.54	sqm
Base Area	=	9.61	sqm
A1	>	Base Area	
Thus, A1	=	9.61	
Modification Factor	=	Square Root(A1/A2) 2 < =	
Square Root(A1/A2)	=	6.3278	
Thus, Modification Factor	=	2	
Concrete Bearing Capacity	=	0.45 X Fck X Modification Factor X ColumnArea	
	=	5400	kN
Concrete Bearing Capacity	>	Pu, Hence Safe.	

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FOOTING DESIGN CALCULATIONS

Footing No	:	F3A	
Column No	:	C12	(300 mm X 800 mm)
Analysis No	:	12	
Concrete Grade	:	M25	N/sqmm
Steel Grade	:	Fe500	N/sqmm
Clear Cover	:	50	mm
Df	:	2 M	
Dw	:	5.5 M	

Density of Soil	=	18	kN/cum
Soil Bearing Capacity	=	250	kN/sqm
Permissible SBC Increase for EQ	=	25	%
Permissible SBC Increase for Wind	=	25	%
Live Load Reduction	=	0	%
Permissible area of loss of contact	=	0	%

Design cross section by : Average pressure

Footing Type : Pad

Footing Size (L x B x D) : 3200mm X 2750mm X 850mm

Without considering Effect of Water Table

Footing Self Wt., F1	=	187.00	kN
Soil Weight, S1	=	0.00	kN
Total Weight, W1	=	F1 + S1	
	=	187	kN
Offset Along L (Loff)	=	1200	mm
Offset Along B (Boff)	=	1225	mm

Check For Maximum Soil Pressure:

Critical Analysis Load Combination	=	25	
Critical Load Combination	=	[11] : (LOAD 1: DL) +0.8 (LOAD 2: LL) +0.8 (LOAD 9: RS+X)	
Pcomb	=	2219.73	kN
P	=	Pcomb + W1	
P	=	2406.73	kN
Mx	=	76.28	kNm
My	=	7.06	kNm
P/A	=	273.49	kN/sqm
Mx/Zx	=	16.25	kN/sqm

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My/Zy	=	1.75	kN/sqm
Maximum Soil Pressure	=	291.49	kN/sqm
Allowable Soil Pressure	=	1.25x250	kN/sqm
	=	312.5	kN/sqm

Check For Minimum Soil Pressure:

Critical Analysis Load Combination	=	21	
Critical Load Combination	=	[7] : (LOAD 1: DL) +(LOAD 13: WL(+X))	
Pcomb	=	1697.26	kN
P	=	Pcomb + W1	
P	=	1884.26	kN
Mx	=	30.98	kNm
My	=	-1.3	kNm
P/A	=	214.12	kN/sqm
Mx/Zx	=	6.6	kN/sqm
My/Zy	=	-0.32	kN/sqm
Minimum Soil Pressure	=	207.2	kN/sqm
	>	0	

Design For Bending:

Bottom Reinforcement Along L:

Critical Analysis Load Combination	=	49	
Critical Load Combination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9: RS+X)	
Pu	=	3189.28	kN
Mux	=	145.43	kNm
Muy	=	13.65	kNm
P/A	=	362.42	kN/sqm
Mx/Zx	=	30.99	kN/sqm
My/Zy	=	3.38	kN/sqm
Deff	=	792	mm
Beff	=	2750	mm
SPu	=	393.4	kN/sqm
Mu	=	SPu X B X Loff X Loff / 2	
	=	778.94	kNm
Pt	=	0.129	%
Ast Rqd (BM)	=	2805	sqmm

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Ast Prv (Distributed Across Total Width)	=	17 - T16 @ 175	
	=	3418	sqmm

Bottom Reinforcement Along B:

Critical Analysis Load Combination	=	49	
Critical Load Combination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9: RS+X)	
Pu	=	3189.28	kN
Mux	=	145.43	kNm
Muy	=	13.65	kNm
P/A	=	362.42	kN/sqm
Mx/Zx	=	30.99	kN/sqm
My/Zy	=	3.38	kN/sqm
Deff	=	776	mm
Leff	=	3200	mm
SPu	=	365.8	kN/sqm
Mu	=	SPu X L X Boff X Boff / 2	
	=	878.29	kNm
Pt	=	0.131	%
Ast Rqd (BM)	=	3264	sqmm
Ast Prv (Distributed Across Total Length)	=	20 - T16 @ 175	
	=	4021	sqmm

Design For Shear:

One Way Shear Along L:

Critical Section @ d from Column Face			
	=	792	mm
Critical Analysis Load Combination	=	49	
Critical Load Combination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9: RS+X)	
Pu	=	3189.28	kN
Mux	=	145.43	kNm
Muy	=	13.65	kNm
P/A	=	362.42	kN/sqm
Mx/Zx	=	30.99	kN/sqm
My/Zy	=	3.38	kN/sqm

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Deff	=	792	mm
Beff	=	2750	mm
SPu	=	393.4	kN/sqm
Vu	=	SPu X (Loff - d) X B	
	=	441.40	kN
Tv	=	Vu / (Beff X Deff)	
	=	0.20	N/sqmm
Tc	=	0.27	N/sqmm
Tv	<	Tc	

One Way Shear Along B:

Critical Section @ d from Column Face

	=	776	mm
Critical Analysis Load Combination	=	49	
Critical Load Combination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9: RS+X)	
Pu	=	3189.28	kN
Mux	=	145.43	kNm
Muy	=	13.65	kNm
P/A	=	362.42	kN/sqm
Mx/Zx	=	30.99	kN/sqm
My/Zy	=	3.38	kN/sqm
Deff	=	776	mm
Leff	=	3200	mm
SPu	=	365.8	kN/sqm
Vu	=	SPu X (Boff - d) X L	
	=	525.58	kN
Tv	=	Vu / (Leff X Deff)	
	=	0.21	N/sqmm
Tc	=	0.27	N/sqmm
Tv	<	Tc	

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Design For Punching Shear:

Critical Section @ d/2 from Column Face

	=	392	mm
Critical Analysis Load Combination	=	49	
Critical Load Combination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9: RS+X)	
Pu	=	3189.28	kN
Mux	=	145.43	kNm
Muy	=	13.65	kNm
P/A	=	362.42	kN/sqm
Mx/Zx	=	30.99	kN/sqm
My/Zy	=	3.38	kN/sqm
Deff	=	784	mm
Leff	=	1584	mm
Beff	=	1084	mm
Punching Perimeter	=	5336	mm
Punching Area	=	4183424	sqmm
SPu	=	Average Pressure	
	=	362.42	kN/sqm
Vu	=	SPu X ((L X B)-(Leff X Beff))	
	=	2566.99	kN
Tv	=	Vu / Punching Area	
	=	0.614	N/sqmm
Tc	=	1.094	N/sqmm
Tv	<	Tc	

Load Transfer Check For Load Transfer From Column To Footing

Critical Analysis Load Combination	=	49	
Critical Load Combination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9: RS+X)	
Pu	=	3189.28	kN
A2	=	0.24	sqm
A1	=	15.54	sqm
Base Area	=	8.8	sqm
A1	>	Base Area	
Thus, A1	=	8.8	

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Modification Factor	=	SquareRoot(A1/A2) 2 < =
SquareRoot(A1/A2)	=	6.0553
Thus, Modification Factor	=	2
Concrete Bearing Capacity	=	0.45 X Fck X Modification Factor X ColumnArea
	=	5400 kN
Concrete Bearing Capacity	>	Pu, Hence Safe.

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FOOTING DESIGN CALCULATIONS

Footing No	:	F4	
Column No	:	C8,C9,C10,C13,C18,C25(300mmX800mm)	
Analysis No	:	8,9,10,13,19,27	
Concrete Grade	:	M25	N/sqmm
Steel Grade	:	Fe500	N/sqmm
Clear Cover	:	50	mm
Df	:	2M	
Dw	:	5.5M	
Density of Soil	=	18	kN/cum
Soil Bearing Capacity	=	250	kN/sqm
Permissible SBC Increase for EQ	=	25	%
Permissible SBC Increase for Wind	=	25	%
Live Load Reduction	=	0	%
Permissible areaof loss of contact	=	0	%
Design cross section by	:	Averagepressure	
Footing Type	:	Pad	
Footing Size (LxBxD)	:	3400mmX3400mmX925mm	

Without considering Effect of Water Table

Footing Self Wt.,F1	=	267.32	kN
Soil Weight,S1	=	0.00	kN
Total Weight,W1	=	F1+S1	
	=	267.32	kN
Offset Along L(Loff)	=	1300	mm
Offset Along B(Boff)	=	1550	mm

Check For Maximum Soil Pressure:

Critical Column No	=	C10	
Critical Analysis Load Combination	=	27	
Critical Load Combination	=	[13]:(LOAD1:DL)+0.8(LOAD2:LL)+0.8 (LOAD11:RS+Z)	
Pcomb	=	2581.56	kN
P	=	Pcomb +W1	
P	=	2848.88	kN
Mx	=	113.14	kNm
My	=	5.66	kNm
P/A	=	246.44	kN/sqm
Mx/Zx	=	17.27	kN/sqm

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My/Zy	=	0.86	kN/sqm
MaximumSoilPressure	=	264.58	kN/sqm
AllowableSoilPressure	=	1.25x250	kN/sqm
	=	312.5	kN/sqm

Check For Minimum Soil Pressure:

Critical Column No	=	C18	
Critical Analysis Load Combination	=	21	
Critical Load Combination	=	[7]:(LOAD1:DL)+ (LOAD13:WL(+X))	
Pcomb	=	1777.99	kN
P	=	Pcomb +W1	
P	=	2045.31	kN
Mx	=	26.09	kNm
My	=	-0.6	kNm
P/A	=	176.93	kN/sqm
Mx/Zx	=	3.98	kN/sqm
My/Zy	=	-0.09	kN/sqm
Minimum Soil Pressure	=	172.86	kN/sqm
	>	0	

Design For Bending:

Bottom Reinforcement Along L:

Critical Column No	=	C8	
Critical Analysis Load Combination	=	49	
Critical Load Combination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9:RS+X)	
Pu	=	3676.63	kN
Mux	=	150.1	kNm
Muy	=	16.09	kNm
P/A	=	318.05	kN/sqm
Mx/Zx	=	22.91	kN/sqm
My/Zy	=	2.46	kN/sqm
Deff	=	867	mm
Beff	=	3400	mm
SPu	=	340.96	kN/sqm
Mu	=	SPuXBXLoffXLoff/2	
	=	979.58	kNm
Pt	=	0.128	%

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AstRqd(BM)	=	3774	sqmm
AstPrv(DistributedAcrossTotal Width)	=	24-T16@150	
	=	4825	sqmm

Bottom Reinforcement Along B:

Critical Column No	=	C10	
Critical Analysis Load Combination	=	4	
Critical Load Combination	=	[44]:1.5(LOAD1:DL)+1.5(LOAD2:LL)	
Pu	=	3737.89	kN
Mux	=	2.23	kNm
Muy	=	-9.56	kNm
P/A	=	323.35	kN/sqm
Mx/Zx	=	0.34	kN/sqm
My/Zy	=	-1.46	kN/sqm
Deff	=	851	mm
Leff	=	3400	mm
SPu Mu	=	324.81	kN/sqm
	=	SPuXLXBoffXBoff/2	
	=	1326.59	kNm
Pt	=	0.13	%
AstRqd(BM)	=	3774	sqmm
AstPrv(DistributedAcrossTotal Length)	=	24-T16@150	
	=	4825	sqmm

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Design For Shear:

One Way Shear Along L:

Critical Section@d fromColumnFace

	=	867	mm
Critical Column No	=	C8	
Critical Analysis Load Combination	=	49	
Critical Load Combination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9:RS+X)	
Pu	=	3676.63	kN
Mux	=	150.1	kNm
Muy	=	16.09	kNm
P/A	=	318.05	kN/sqm
Mx/Zx	=	22.91	kN/sqm
My/Zy	=	2.46	kN/sqm
Deff	=	867	mm
Beff	=	3400	mm
SPu	=	340.96	kN/sqm
Vu	=	SPuX(Loff-d)XB	
	=	501.96	kN
Tv	=	Vu/(BeffXDeff)	
	=	0.17	N/sqmm
Tc	=	0.27	N/sqmm
Tv	<	Tc	

OneWayShearAlongB:

Critical Section @dfromColumnFace

	=	851	mm
CriticalColumnNo	=	C10	
CriticalAnalysisLoadCombination	=	4	
CriticalLoadCombination	=	[44]:1.5(LOAD1:DL) +1.5(LOAD2:LL)	
Pu	=	3737.89	kN
Mux	=	2.23	kNm
Muy	=	-9.56	kNm
P/A	=	323.35	kN/sqm

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Mx/Zx	=	0.34	kN/sqm
My/Zy	=	-1.46	kN/sqm
Deff	=	851	mm
Leff	=	3400	mm
SPu	=	324.81	kN/sqm
Vu	=	SPuX(Boff-d)XL	
	=	771.94	kN
Tv	=	Vu/(LeffXDeff)	
	=	0.27	N/sqmm
Tc	=	0.27	N/sqmm
Tv	<	Tc	

DesignForPunching Shear:

CriticalSection@d/2fromColumnFace

	=	430	mm
CriticalColumnNo	=	C10	
CriticalAnalysisLoadCombination	=	4	
CriticalLoadCombination	=	[44]:1.5(LOAD1:DL)+1.5(LOAD2:LL)	
Pu	=	3737.89	kN
Mux	=	2.23	kNm
Muy	=	-9.56	kNm
P/A	=	323.35	kN/sqm
Mx/Zx	=	0.34	kN/sqm
My/Zy	=	-1.46	kN/sqm
Deff	=	859	mm
Leff	=	1659	mm
Beff	=	1159	mm
PunchingPerimeter	=	5636	mm
PunchingArea	=	4841324	sqmm
SPu	=	AveragePressure	
	=	323.35	kN/sqm
Vu	=	SPuX{(LXB)-(LeffXBeff)}	
	=	3116.17	kN
Tv	=	Vu/PunchingArea	
	=	0.644	N/sqmm
Tc	=	1.094	N/sqmm
Tv	<	Tc	

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Load Transfer Check For Load Transfer From Column To Footing

Critical Column No	=	C10	
Critical Analysis Load Combination	=	4	
Critical Load Combination	=	[44]:1.5(LOAD1:DL) +1.5(LOAD2:LL)	
Pu	=	3737.89	kN
A2	=	0.24	sqm
A1	=	18	sqm
Base Area	=	11.56	sqm
A1	>	BaseArea	
Thus,A1	=	11.56	
Modification Factor	=	SquareRoot(A1/A2) 2 <=	
Square Root(A1/A2)	=	6.9402	
Thus, Modification Factor	=	2	
Concrete Bearing Capacity	=	0.45XFckXModificationFactorXColumnArea	
	=	5400	kN
Concrete Bearing Capacity	>	Pu, HenceSafe.	

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FOOTING DESIGN CALCULATIONS

Footing No	:	F5	
Column No	:	C26	(300mmX800mm)
Analysis No	:	28	
Concrete Grade	:	M25	N/sqmm
Steel Grade	:	Fe500	N/sqmm
Clear Cover	:	50	mm
Df	:	2M	
Dw	:	5.5M	
Density of Soil	=	18	kN/cum
Soil Bearing Capacity	=	250	kN/sqm
Permissible SBC Increase for EQ	=	25	%
Permissible SBC Increasefor Wind	=	25	%
Live Load Reduction	=	0	%
Permissible area of loss of contact	=	0	%
Design cross section by	:	Averagepressure	
FootingType	:	Pad	
FootingSize(L xBx D)	:	3650mmX3650mmX	1000mm

Without considering Effect of Water Table

FootingSelfWt.,F1	=	333.06	kN
SoilWeight,S1	=	0.00	kN
TotalWeight,W1	=	F1+S1	
	=	333.06	kN
OffsetAlongL(Loff)	=	1425	mm
OffsetAlongB(Boff)	=	1675	mm

Check For Maximum Soil Pressure:

Critical Analysis Load Combination	=	25	
Critical Load Combination	=	[11]:(LOAD1:DL)+0.8(LOAD2:LL)+0.8 (LOAD9:RS+X)	
Pcomb	=	2945.92	kN
P	=	Pcomb +W1	
P	=	3278.98	kN
Mx	=	78.61	kNm
My	=	7.19	kNm
P/A	=	246.12	kN/sqm
Mx/Zx	=	9.7	kN/sqm
My/Zy	=	0.89	kN/sqm
Maximum Soil Pressure	=	256.71	kN/sqm

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Allowable Soil Pressure	=	1.25x250	kN/sqm
	=	312.5	kN/sqm

Check For Minimum Soil Pressure:

Critical Analysis Load Combination	=	21	
Critical Load Combination	=	[7]:(LOAD1:DL)+ (LOAD13:WL(+X))	
Pcomb	=	2288.42	kN
P	=	Pcomb +W1	
P	=	2621.48	kN
Mx	=	19.94	kNm
My	=	-0.98	kNm
P/A	=	196.77	kN/sqm
Mx/Zx	=	2.46	kN/sqm
My/Zy	=	-0.12	kN/sqm
MinimumSoilPressure	=	194.19	kN/sqm
	>	0	

Design For Bending:

Bottom Reinforcement Along L:

Critical Analysis Load Combination	=	49	
Critical Load Combination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9:RS+X)	
Pu	=	4150.05	kN
Mux	=	154.49	kNm
Muy	=	13.63	kNm
P/A	=	311.51	kN/sqm
Mx/Zx	=	19.06	kN/sqm
My/Zy	=	1.68	kN/sqm
Deff	=	942	mm
Beff	=	3650	mm
SPu	=	330.57	kN/sqm
Mu	=	SPuXBXLoffXLoff/2	
	=	1225.05	kNm
Pt	=	0.127	%
AstRqd(BM)	=	4380	sqmm

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AstPrv(DistributedAcrossTotal Width)	=	26-T16@150	
	=	5228	sqmm

BottomReinforcement Along B:

CriticalAnalysisLoadCombination	=	49	
CriticalLoadCombination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9:RS+X)	
Pu	=	4150.05	kN
Mux	=	154.49	kNm
Muy	=	13.63	kNm
P/A	=	311.51	kN/sqm
Mx/Zx	=	19.06	kN/sqm
My/Zy	=	1.68	kN/sqm
Deff	=	926	mm
Leff	=	3650	mm
SPu	=	313.19	kN/sqm
Mu	=	SPuXLXBoffXBoff/2	
	=	1603.61	kNm
Pt	=	0.13	%
AstRqd(BM)	=	4380	sqmm
AstPrv(DistributedAcross Total Length)	=	26-T16@150	
	=	5228	sqmm

DesignFor Shear:

OneWayShearAlongL:

CriticalSection@dfromColumnFace			
	=	942	mm
CriticalAnalysisLoadCombination	=	49	
CriticalLoadCombination	=	[77]:1.5{LOAD1:DL}+1.5{LOAD9: RS+X)	
Pu	=	4150.05	kN
Mux	=	154.49	kNm
Muy	=	13.63	kNm
P/A	=	311.51	kN/sqm
Mx/Zx	=	19.06	kN/sqm
My/Zy	=	1.68	kN/sqm

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Deff	=	942	mm
Beff	=	3650	mm
SPu	=	330.57	kN/sqm
Vu	=	SPuX(Loff-d)XB	
	=	582.78	kN
Tv	=	Vu/(BeffXDeff)	
	=	0.17	N/sqmm
Tc	=	0.27	N/sqmm
Tv	<	Tc	

OneWayShearAlongB:

CriticalSection@dfromColumnFace

	=	926	mm
CriticalAnalysisLoadCombination	=	49	
CriticalLoadCombination	=	[77]:1.5(LOAD1:DL) +1.5(LOAD9:RS+X)	
Pu	=	4150.05	kN
Mux	=	154.49	kNm
Muy	=	13.63	kNm
P/A	=	311.51	kN/sqm
Mx/Zx	=	19.06	kN/sqm
My/Zy	=	1.68	kN/sqm

Deff	=	926	mm
Leff	=	3650	mm
SPu	=	313.19	kN/sqm
Vu	=	SPu X (Boff - d) X L	
	=	856.21	kN
Tv	=	Vu/(LeffXDeff)	
	=	0.25	N/sqmm
Tc	=	0.27	N/sqmm
Tv	<	Tc	

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DesignForPunching Shear:

CriticalSection@d/2fromColumnFace

	=	467	mm
CriticalAnalysisLoadCombination	=	49	
CriticalLoadCombination	=	[77] : 1.5 (LOAD 1: DL) +1.5 (LOAD 9:RS+X)	
Pu	=	4150.05	kN
Mux	=	154.49	kNm
Muy	=	13.63	kNm
P/A	=	311.51	kN/sqm
Mx/Zx	=	19.06	kN/sqm
My/Zy	=	1.68	kN/sqm
Deff	=	934	mm
Leff	=	1734	mm
Beff	=	1234	mm
PunchingPerimeter	=	5936	mm
PunchingArea	=	5544224	sqmm
SPu	=	AveragePressure	
	=	311.51	kN/sqm
Vu	=	SPuX((LXB)-(LeffXBeff))	
	=	3483.50	kN
Tv	=	Vu/PunchingArea	
	=	0.628	N/sqmm
Tc	=	1.094	N/sqmm
Tv	<	Tc	

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Load Transfer Check For Load Transfer From Column To Footing

CriticalAnalysisLoadCombination	=	49	
CriticalLoadCombination	=	[77]:1.5(LOAD1:DL) +1.5(LOAD9:RS+X)	
Pu	=	4150.05	kN
A2	=	0.24	sqm
A1	=	20.64	sqm
BaseArea	=	13.32	sqm
A1	>	BaseArea	
Thus,A1	=	13.32	
ModificationFactor	=	SquareRoot(A1/A2) 2 <=	
SquareRoot(A1/A2)	=	7.4498	
Thus,ModificationFactor	=	2	
ConcreteBearingCapacity	=	0.45XFckXModificationFactorXColumnArea	
	=	5400	kN
ConcreteBearingCapacity	>	Pu,HenceSafe.	

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COLUMN DESIGN

Project : ROYAPETTAH HIGH ROAD(S+9)	RAMANIYAM DESIGNS		
	Design by:Jagen	Date :29/08/24	Page :
Column marking: C1	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 = 0.0625

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	2228	210	36.9648	0.23208333	0.027	0.02	0.8	1920	4Y20+6Y16
2nd floor level & 3rd lvl	1782	210	29.58784	0.18566667	0.027	0.02	0.8	1920	4Y20+6Y16
4th Floor & 5th Floor Lvl	1426	210	23.670272	0.14853333	0.027	0.02	0.8	1920	10Y16
6th Floor & 7th Floor Lvl	1141	210	18.9362176	0.11882667	0.027	0.02	0.8	1920	10Y16
8th Floor, 9th Floor Lvl& Terrace Floor Lvl	913	210	15.1489741	0.09506133	0.027	0.02	0.8	1920	10Y16

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BLOCK-2, MODEL SCHOOL ROAD
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COLUMN DESIGN

Project : ROYAPETTAH HIGH ROAD(S+9)	RAMANIYAM DESIGNS		
	Design by:Jagen	Date :29/08/24	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	2698	368	44.7868	0.28104167	0.048	0.035	1.4	3360	12Y20
2nd floor level & 3rd lvl	2158.4	368	35.82944	0.22483333	0.048	0.02	0.8	1920	8Y20+4Y16
4th Floor & 5th Floor Lvl	1726.72	368	28.663552	0.17986667	0.048	0.02	0.8	1920	4Y20+8Y16
6th Floor & 7th Floor Lvl	1381.376	368	22.9308416	0.14389333	0.048	0.02	0.8	1920	4Y20+8Y16
8th Floor, 9th Floor Lvl& Terrace Floor Lvl	1105.1008	368	18.3446733	0.11511467	0.048	0.02	0.8	1920	12Y16

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COLUMN DESIGN

Project : ROYAPETTAH HIGH ROAD(S+9)	RAMANIYAM DESIGNS		
	Design by:Jagen	Date :29/08/24	Page :
Column marking: C3	Checked by:	Revision:	Job no:

Data

Column sizes	300	x	800	mm	
Grade of concrete		fck	40	N/mm²	
Grade of steel		fy	500	N/mm²	
Unsupp. length of column		lo	3300	mm	
Clear cover		c	40	mm	
Dia of bar used		ϕ	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 bD²)	Pt/fck	Pt (%)	Required Ast (mm²)	Provided Reinforcement
Stilt floor &1st Floor	3240	416	53.784	0.3375	0.054	0.05	2	4800	10Y25
2nd floor level & 3rd lvl	2592	416	43.0272	0.27	0.054	0.035	1.4	3360	6Y25+4Y20
4th Floor & 5th Floor Lvl	2073.6	416	34.42176	0.216	0.054	0.02	0.8	1920	4Y25+6Y20
6th Floor & 7th Floor Lvl	1658.88	416	27.537408	0.1728	0.054	0.02	0.8	1920	10Y20
8th Floor, 9th Floor Lvl& Terrace Floor Lvl	1327.104	416	22.0299264	0.13824	0.054	0.02	0.8	1920	6Y20+4Y16

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COLUMN DESIGN

Project : ROYAPETTAH HIGH ROAD(S+9)	RAMANIYAM DESIGNS		
	Design by:Jagen	Date :29/08/24	Page :
Column marking: C4	Checked by:	Revision:	Job no:

Data

Column sizes	300	x	800	mm	
Grade of concrete		fck	40	N/mm²	
Grade of steel		fy	500	N/mm²	
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 bD²)	Pu/fck	Pt (%)	Required Ast (mm²)	Provided Reinforcement
Stilt floor &1st Floor	3713	260	61.6358	0.38677083	0.034	0.05	2	4800	12Y25
2nd floor level & 3rd lvl	2970.4	260	49.30864	0.30941667	0.034	0.03	1.2	2880	4Y25+8Y20
4th Floor & 5th Floor Lvl	2376.32	260	39.446912	0.24753333	0.034	0.02	0.8	1920	12Y20
6th Floor & 7th Floor Lvl	1901.056	260	31.5575296	0.19802667	0.034	0.02	0.8	1920	4Y20+8Y16
8th Floor, 9th Floor Lvl& Terrace Floor Lvl	1520.8448	260	25.2460237	0.15842133	0.034	0.02	0.8	1920	4Y20+8Y16

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COLUMN DESIGN

Project : ROYAPETTAH HIGH ROAD(S+9)	RAMANIYAM DESIGNS		
	Design by:Jagen	Date :29/08/24	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	4120	180	68.392	0.42916667	0.023	0.06	2.4	5760	14Y25
2nd floor level & 3rd lvl	3296	180	54.7136	0.34333333	0.023	0.04	1.6	3840	4Y25+10Y20
4th Floor & 5th Floor Lvl	2636.8	180	43.77088	0.27466667	0.023	0.02	0.8	1920	4Y20+10Y16
6th Floor & 7th Floor Lvl	2109.44	180	35.016704	0.21973333	0.023	0.02	0.8	1920	14Y16
8th Floor, 9th Floor Lvl& Terrace Floor Lvl	1687.552	180	28.0133632	0.17578667	0.023	0.02	0.8	1920	14Y16

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PROJECT NAME ROYAPETTAH HIGH ROAD
TYPICAL ROOF- BEAM DESIGN

BEAM ID B1

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)	=	25	N/mm²	
Grade of steel (fy)	=	500	N/mm²	
Length of the beam	=	3210	mm	
Moment (Mu_{bot}) @mid-span	=	39.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @ left supp	=	135.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @right supp	=	130.00	kN.m	(FROM STADD .Pro Result)
Shear Force (Vu)	=	90.00	KN	(FROM STADD .Pro Result)

REINFORCEMENT DETAILS

At Mid span

Mu/bd^2 = 0.801

Pt = 0.191 % Refer SP16- Table 3

Reqd Ast = 202.078 mm²

Provided =	Dia of Bar		No
	20	mm	2
		mm	

Provided Ast = 628 mm²

At left Supp

Mu/bd^2 = 2.773896606

Pt = 0.760 %

Reqd Ast = 804.08 mm²

Provided	Dia of Bar		No
1st Layer	20	mm	3
2nd Layer	0	mm	0

Provided As = 942 mm²

At right Supp

Mu/bd^2 = 2.6711597

Pt = 0.727 %

Reqd Ast = 769.166 mm²

Provided	Dia of Bar		No
	20	mm	3
	0	mm	0

Provided Ast = 942 mm²

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CHECK FOR SHEAR

τ_v	=	V_u/bd	
	=	0.851	N/mm²
Pt	=	0.594	%
τ_c	=	0.49	N/mm²

Refer IS456:2000 Table 19(PAGE 73)

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

V_{us}	=	$V_u-(\tau_c*b*d)$	
	=	38.158	KN
Assume 2legged stirrups of	=	8	mm dia bar
Area of one bar	=	$\pi*d^2/4$	
	=	50.24	
s_v	=	$A_{sv}*0.87*d*f_y/V_{us}$	
	=	526.9156664	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	=	93.316274

Refer IS456:2000 fig 4(page 38)

Modification factor	k	=	2
	$(L/d)_{max}$	=	$k*(L/d)_{basic}$
	$(L/d)_{max}$	=	40 mm
	$(L/d)_{act}$	=	6.9782609 mm

HENCE THE SECTION IS SAFE IN DEFLECTION

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PROJECT NAME ROYAPETTAH HIGH ROAD
TYPICAL ROOF- BEAM DESIGN

BEAM ID B14

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)	=	25	N/mm²	
Grade of steel (fy)	=	500	N/mm²	
Length of the beam	=	3780	mm	
Moment (Mu_{mid}) @mid span	=	80.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @ left supp	=	229.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @right supp	=	283.00	kN.m	(FROM STADD .Pro Result)
Shear Force (Vu)	=	185.00	KN	(FROM STADD .Pro Result)

REINFORCEMENT DETAILS

At Mid span

Mu/bd^2 = 1.109

Pt = 0.293 % Refer SP16- Table 3

Reqd Ast = 377.384 mm²

Provided = Dia of Bar 20 mm, No 2

Provided Ast = 628 mm²

At left Supp

Mu/bd^2 = 3.174911269

Pt = 0.896 %

Reqd Ast = 1156.624 mm²

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

Provided Ast = 1570 mm²

At right Supp

Mu/bd^2 = 3.9235603

$Pt_{Tension}$ = 1.116 %

Reqd Ast = 1437.408 mm²

Provided	Dia of Bar		No
	25	mm	2
	20	mm	3

Provided Ast = 1923.25 mm²

$Pt_{Compression}$ = 0.187 %

Reqd Ast = 240.856 mm²

Provided	Dia of Bar		No
	20	mm	2

Provided Ast = 628 mm²

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CHECK FOR SHEAR

τ_v = V_u/bd

= 1.436 N/mm²

Pt = 0.488 %

τ_c = 0.45 N/mm²

Refer IS456:2000 Table 19(PAGE 73)

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

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

= 127.04 KN

Assume 2legged stirrups of = 8 mm dia bar

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

= 50.24

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

= 192.6710327 mm

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

CHECK FOR DEFLECTION

P_t = 0.488 %

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

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

fs = 174.26968

Refer IS456:2000 fig 4(page 38)

Modification factor k = 1.5

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

$(L/d)_{max}$ = 30 mm

$(L/d)_{act}$ = 6.75 mm

HENCE THE SECTION IS SAFE IN DEFLECTION

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PROJECT NAME ROYAPETTAH HIGH ROAD
TYPICAL ROOF- BEAM DESIGN

BEAM ID B50

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)	=	25	N/mm^2	
Grade of steel (fy)	=	500	N/mm^2	
Length of the beam	=	4670	mm	
Moment (Mu_{sup}) @mid-span	=	103.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @ left supp	=	325.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @right supp	=	260.00	kN.m	(FROM STADD .Pro Result)
Shear Force (Vu)	=	197.00	KN	(FROM STADD .Pro Result)

REINFORCEMENT DETAILS

At Mid span

Mu/bd^2 = 1.428

Pt = 0.373 % Refer SP16- Table 3

Reqd Ast = 480.424 mm^2

Provided = Dia of Bar 20 mm, No 3

Provided Ast = 942 mm^2

At left Supp

Mu/bd^2 = 4.505878438

Pt = 1.244 %

Reqd Ast = 1602.272 mm^2

Provided — Dia of Bar — No
1st Layer: 25 mm — 3
2nd Layer: 16 mm — 2

Provided Ast = 1873.795 mm^2

$Pt_{Compression}$ = 0.326 %

Reqd Ast = 419.888 mm^2

Provided — Dia of Bar 20 mm — No 3

Provided Ast = 942 mm^2

At right Supp

Mu/bd^2 = 3.6047028

$Pt_{Tension}$ = 1.014 %

Reqd Ast = 1306.032 mm^2

Provided — Dia of Bar — No
25 mm — 3
16 mm — 2

Provided Ast = 1873.795 mm^2

$Pt_{Compression}$ = 0.076 %

Reqd Ast = 97.888 mm^2

Provided — Dia of Bar 20 mm — No 3

Provided Ast = 942 mm^2

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CHECK FOR SHEAR

	τ_v	=	V_u/bd
		=	1.530 N/mm^2
	Pt	=	0.731 %
	τ_c	=	0.55 N/mm^2

Refer IS456:2000 Table 19(PAGE 73)

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

	V_{us}	=	$V_u-(\tau_c*b*d)$
		=	128.16 KN
Assume 2legged stirrups of		=	8 mm dia bar
Area of one bar		=	$\pi*d^2/4$
		=	50.24
	S_v	=	$A_{sv}*0.87*d*f_y/V_{us}$
		=	194.0149651 mm

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

CHECK FOR DEFLECTION

	P_t	=	0.731 %
	$(L/d)_{max}$	=	20
	fs	=	0.58*fy*(Ast reqd/Ast provided)
	fs	=	147.90123

Refer IS456:2000 fig 4(page 38)

Modification factor	k	=	1.6
	$(L/d)_{max}$	=	k*$(L/d)_{max}$
	$(L/d)_{max}$	=	32 mm
	$(L/d)_{act}$	=	8.3392857 mm

HENCE THE SECTION IS SAFE IN DEFLECTION

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PROJECT NAME ROYAPETTAH HIGH ROAD
TYPICAL ROOF- BEAM DESIGN

BEAM ID B52
INPUT

Overall depth	=	600	mm	
Effective cover	=	30	mm	
Dia of bar	=	20	mm	
Effective depth (d)	=	580	mm	
Width of beam	=	230	mm	
Grade of concrete (fck)	=	25	N/mm^2	
Grade of steel (fy)	=	500	N/mm^2	
Length of the beam	=	5720	mm	
Moment (Mu_{bot}) @mid-span	=	85.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @ left supp	=	100.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @right supp	=	233.00	kN.m	(FROM STADD .Pro Result)
Shear Force (Vu)	=	120.00	KN	(FROM STADD .Pro Result)

REINFORCEMENT DETAILS

At Mid span

Mu/bd^2 = 1.178

Pt = 0.293 % Refer SP16- Table 3

Reqd Ast = 377.384 mm^2

Provided =	Dia of Bar		No
	25	mm	2
		mm	

Provided Ast = 981.25 mm^2

At left Supp

Mu/bd^2 = 1.386424135

Pt = 0.348 %

Reqd Ast = 445.648 mm^2

Provided	Dia of Bar		No
1st Layer	25	mm	2
2nd Layer	0	mm	0

Provided As = 981.25 mm^2

At right Supp

Mu/bd^2 = 3.2303682

Pt = 0.916 %

Reqd Ast = 1179.808 mm^2

Provided	Dia of Bar		No
	25	mm	3
	0	mm	0

Provided Ast = 1471.875 mm^2

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CHECK FOR SHEAR

τ_v	=	V_u/bd	
	=	0.932	N/mm²
Pt	=	0.762	%
τ_c	=	0.57	N/mm²

Refer IS456:2000 Table 19(PAGE 73)

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

V_{us}	=	$V_u-(\tau_c*b*d)$	
	=	46.584	KN
Assume 2legged stirrups of	=	8	mm dia bar
Area of one bar	=	$\pi*d^2/4$	
	=	50.24	
S_v	=	$A_{sv}*0.87*d*f_y/V_{us}$	
	=	525.436373	mm

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

CHECK FOR DEFLECTION

	P_t	=	0.762 %
	$(L/d)_{basic}$	=	20
	fs	=	0.58*fy*(Ast reqd/Ast provided)
	fs	=	111.5326

Refer IS456:2000 fig 4(page 38)

Modification factor	k	=	1.6
	$(L/d)_{max}$	=	$k*(L/d)_{basic}$
	$(L/d)_{max}$	=	32 mm
	$(L/d)_{act}$	=	10.214286 mm

HENCE THE SECTION IS SAFE IN DEFLECTION

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PROJECT NAME ROYAPETTAH HIGH ROAD
TYPICAL ROOF- BEAM DESIGN

BEAM ID B70

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)	=	25	N/mm^2	
Grade of steel (fy)	=	500	N/mm^2	
Length of the beam	=	5720	mm	
Moment (Mu_{bal}) @mid-span	=	110.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @ left supp	=	135.00	kN.m	(FROM STADD .Pro Result)
Moment (Mu) @right supp	=	110.00	kN.m	(FROM STADD .Pro Result)
Shear Force (Vu)	=	100.00	KN	(FROM STADD .Pro Result)

REINFORCEMENT DETAILS

At Mid span

Mu/bd^2 = 1.525

Pt = 0.387 % Refer SP16- Table 3

Reqd Ast = 498.456 mm^2

Provided = Dia of Bar 20 mm mm, No 3

Provided Ast = 942 mm^2

At left Supp

Mu/bd^2 = 1.871672582

Pt = 0.484 %

Reqd Ast = 623.392 mm^2

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

Provided As = 828.96 mm^2

At right Supp

Mu/bd^2 = 1.5250665

Pt = 0.387 %

Reqd Ast = 498.456 mm^2

Provided	Dia of Bar		No
	20	mm	2
	16	mm	1

Provided Ast = 828.96 mm^2

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CHECK FOR SHEAR

τ_v = V_u/bd
= 0.776 N/mm²

Pt = 0.731 %

τ_c = 0.55 N/mm²
Refer IS456:2000 Table 19(PAGE 73)

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

V_{us} = $V_u-(\tau_c*b*d)$
= 29.16 KN

Assume 2legged stirrups of = 8 mm dia bar

Area of one bar = $\pi*d^2/4$
= 50.24

s_v = $A_{sv}*0.87*d*f_y/V_{us}$
= 839.400823 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 = 153.45248
Refer IS456:2000 fig 4(page 38)

Modification factor k = 1.5

$(L/d)_{max}$ = $k*(L/d)_{basic}$
$(L/d)_{max}$ = 30 mm

$(L/d)_{act}$ = 10.214286 mm

HENCE THE SECTION IS SAFE IN DEFLECTION

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Mobile: 9841269154

Project name:ROYAPETTAH HIGH ROAD

ROOF SLAB DESIGN

FLOOR:Typical 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-S1 Condition- Three Edge Discontirous(One Short Edge)

Grade of concrete fck=	25 N/mm^2	Depth=	150 mm
Grade of steel fy=	500 N/mm^2	Effective depth=	120 mm

Ly= 4.58 Ly/Lx= 1.22

Lx= 3.76

$Wu*Lx^2$ = 147.3845

Vu= 19.599 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	175	448.571
+ve	0.065	9.580	0.665	0.167	200.4	180	10	175	448.571
Longer -ve	0.057	8.401	0.583	0.142	170.4	180	10	200	392.5
+ve	0.043	6.338	0.440	0.106	127.2	180	10	200	392.5

Check for Depth

Mu = 0.138*fck*b*d^2

9.57999 = 0.138X25X1000Xd^2

= 52.69544 < 120

DEPTH IS OK

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Check for Shear

t_{v} = Vu/b*d

= 19.599/1000X120

t_{v} = 0.163

Pt = 0.374

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	=	129.56 N/mm^2	
Pt	=	0.374	
Kt	=	2	Refer Fig .4, IS:456
(L/d)basic	=	27.52	Ref. cl. 23.2.1, IS:456
(L/d)max	=	2 x27.52	
	=	55	
(L/d)provide	=	31.33333 <	55

SLAB SAFE IN DEFLECTION

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Project name:ROYAPETTAH HIGH ROAD

ROOF SLAB DESIGN

FLOOR:Typical 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-S4 Condition- Four Edge Discontinous

Grade of concrete fck=	25 N/mm^2	Depth=	150 mm
Grade of steel fy=	500 N/mm^2	Effective depth=	120 mm

Ly= 5.3 Ly/Lx= 1.41

Lx= 3.76

$Wu*Lx^2$ = 147.3845

Vu= 19.599 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	175	448.571
+ve	0.089	13.117	0.911	0.229	274.8	180	10	175	448.571
Longer -ve	0.000	0.000	0.000	0.000	0	180	10	200	392.5
+ve	0.056	8.254	0.573	0.142	170.4	180	10	200	392.5

Check for Depth

Mu = 0.138*fck*b*d^2

13.1172 = 0.138X25X1000Xd^2

= 61.66111 < 120

DEPTH IS OK

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Check for Shear

t_{vu} = Vu/b*d

= 19.599/1000X120

t_{ve} = 0.163

Pt = 0.374

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	=	177.66 N/mm^2	
Pt	=	0.374	
Kt	=	1.7	Refer Fig .4, IS:456
(L/d)basic	=	27.52	Ref. cl. 23.2.1, IS:456
(L/d)max	=	1.7 x27.52	
	=	47	
(L/d)provide	=	31.33333 <	47

SLAB SAFE IN DEFLECTION

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Mobile: 9841269154

Project name:ROYAPETTAH HIGH ROAD

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-S5 Condition- One Way Slab

Grade of concrete fck=	25 N/mm^2	Depth=	150 mm
Grade of steel fy=	500 N/mm^2	Effective depth=	120 mm

Ly= 7.76 Ly/Lx= 2.34

Lx= 3.32

$Wu*Lx^2$ = 114.9085

Vu= 17.3055 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	0.122	14.019	0.974	0.242	290.4	180	10	175	448.571
+ve	0.122	14.019	0.974	0.242	290.4	180	10	175	448.571
Longer -ve	0.020	2.298	0.160	0.070	84	180	10	200	392.5
+ve	0.020	2.298	0.160	0.070	84	180	10	200	392.5

Check for Depth

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

14.0188 = $0.138X25X1000Xd^2$

= 63.74505 < 120

DEPTH IS OK

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Check for Shear

τ_{ve} = Vu/b*d

= 17.3055/1000X120

τ_{ve} = 0.144

Pt = 0.374

τ_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	=	187.74 N/mm^2	
Pt	=	0.374	
Kt	=	1.7	Refer Fig .4, IS:456
(L/d)basic	=	27.52	Ref. cl. 23.2.1, IS:456
(L/d)max	=	1.7 x27.52	
	=	47	
(L/d)provide	=	27.66667 <	47

SLAB SAFE IN DEFLECTION

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Mobile: 9841269154

Project name:ROYAPETTAH HIGH ROAD

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-S13 Condition- One Long Edge Discontinous

Grade of concrete fck=	25 N/mm^2	Depth=	150 mm
Grade of steel fy=	500 N/mm^2	Effective depth=	120 mm

Ly= 5.37 Ly/Lx= 1.51

Lx= 4.21

$Wu*Lx^2$ = 184.7737

Vu= 21.94463 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	0.077	14.228	0.988	0.242	290.4	180	10	150	523.333
+ve	0.059	10.902	0.757	0.191	229.2	180	10	150	523.333
Longer -ve	0.037	6.837	0.475	0.118	141.6	180	10	200	392.5
+ve	0.028	5.174	0.359	0.094	112.8	180	10	200	392.5

Check for Depth

Mu = 0.138*fck*b*d^2

14.2276 = 0.138X25X1000Xd^2

= 64.21788 < 120

DEPTH IS OK

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Check for Shear

τ_{uv} = Vu/b*d

= 21.944625/1000X120

τ_{uv} = 0.183

Pt = 0.436

τ_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	=	160.92 N/mm^2	
Pt	=	0.436	
Kt	=	1.8	Refer Fig .4, IS:456
(L/d)basic	=	27.52	Ref. cl. 23.2.1, IS:456
(L/d)max	=	1.8 x27.52	
	=	50	
(L/d)provide	=	35.08333 <	50

SLAB SAFE IN DEFLECTION

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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841259154

Project name:ROYAPETTAH HIGH ROAD

ROOF SLAB DESIGN

FLOOR:Typical 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-S19 Condition- Four Edge Discontinous

Grade of concrete fck=	25 N/mm^2	Depth=	150 mm
Grade of steel fy=	500 N/mm^2	Effective depth=	120 mm

Ly= 5.19 Ly/Lx= 1.38

Lx= 3.76

Wu*Lx^2 = 147.3845

Vu= 19.599 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	175	448.571
+ve	0.089	13.117	0.911	0.229	274.8	180	10	175	448.571
Longer -ve	0.000	0.000	0.000	0.000	0	180	10	200	392.5
+ve	0.056	8.254	0.573	0.142	170.4	180	10	200	392.5

Check for Depth

Mu = 0.138*fck*b*d^2

13.1172 = 0.138X25X1000Xd^2

= 61.66111 < 120

DEPTH IS OK

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BLOCK-2, MODEL SCHOOL ROAD
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Mobile: 9841269154

Check for Shear

t_{vs} = Vu/b*d

= 19.599/1000X120

t_{vs} = 0.163

Pt = 0.374

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	=	177.66 N/mm^2	
Pt	=	0.374	
Kt	=	1.8	Refer Fig .4, IS:456
(L/d)basic	=	27.52	Ref. cl. 23.2.1, IS:456
(L/d)max	=	1.8 x27.52	
	=	50	
(L/d)provide	=	31.33333 <	50

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:ROYAPETTAH HIGH ROAD

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-S20 Condition- One Way Slab

Grade of concrete fck=	25 N/mm^2	Depth=	150 mm
Grade of steel fy=	500 N/mm^2	Effective depth=	120 mm

Ly= 6.87 Ly/Lx= 2.07

Lx= 3.32

$Wu*Lx^2$ = 114.9085

Vu= 17.3055 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	0.242	290.4	180	10	175	448.571
+ve	0.122	14.019	0.974	0.242	290.4	180	10	175	448.571
Longer -ve	0.000	0.000	0.000	0.070	84	180	10	200	392.5
+ve	0.020	2.298	0.160	0.070	84	180	10	200	392.5

Check for Depth

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

14.0186 = $0.138X25X1000Xd^2$

= 83.74505 < 120

DEPTH IS OK

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Check for Shear

τ_{ve} = Vu/b*d

= 17.3055/1000X120

τ_{ve} = 0.144

Pt = 0.374

τ_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	=	187.74 N/mm^2	
Pt	=	0.374	
Kt	=	1.7	Refer Fig .4, IS:456
(L/d)basic	=	27.52	Ref. cl. 23.2.1, IS:456
(L/d)max	=	1.7 x27.52	
	=	47	
(L/d)provide	=	27.66667 <	47

SLAB SAFE IN DEFLECTION

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

```
*****************************************************
*                                                   *
*          STAAD.Pro 2023                           *
*          Version  23.00.03.25                     *
*          Proprietary Program of                   *
*          Bentley Systems, Inc.                    *
*          Date=    SEP 10, 2024                    *
*          Time=    18:12:58                        *
*                                                   *
*  Licensed to: Ramaniyam Real Estates Pvt Ltd      *
*****************************************************
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```
    1. STAAD SPACE
INPUT FILE: F:\Ramaniyam\Ramaniyam stadd\RRE STAAD 2024\Royapettah High Road\240909-Royapettah High Ro.. .STD
    2. START JOB INFORMATION
    3. ENGINEER DATE 11-JUL-24
    4. *PLAN SHOWING THE PROPOSED CONCTRUCTION OF HIGH RISE BUILDING CONSISTS OF
    5. *STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING(30.00M HEIGHT) AT OLD DOOR
    6. *NOS.268 & 269, NEW DOOR NOS.66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH,
    7. *CHENNAI-600 014 AND COMPRISED IN R.S.NO.423 AS PER DOCUMENT & R.S.NO.423/1 &
    8. *423/2 AS PER PATTA, BLOCK NO.8 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN
    9. *THE LIMITS OF GREATER CHENNAI CORPORATION.ZONE - IX; DIVISION:- 119.
   10. END JOB INFORMATION
   11. INPUT WIDTH 79
   12. UNIT METER KN
   13. JOINT COORDINATES
   14. 1 0 0 0; 2 4.58 0 0; 3 7.63 0 0.23; 4 10.95 0 0.23; 5 16.25 0 0.23
   15. 6 7.63 0 3.76; 7 10.95 0 3.76; 8 16.25 0 5.7; 9 0 0 6; 10 4.58 0 6
   16. 11 10.95 0 7.76; 12 0.23 0 9.64; 13 4.58 0 9.64; 14 9.16 0 9.64
   17. 15 11.22 0 9.64; 16 9.16 0 11.52; 17 11.22 0 11.52; 18 16.02 0 11.52
   18. 19 0.23 0 12.69; 20 5.19 0 12.69; 21 7.87 0 12.69; 22 5.19 0 14.96
   19. 23 7.87 0 14.96; 24 11.45 0 14.96; 25 16.02 0 14.96; 26 11.45 0 17.815
   20. 27 16.02 0 17.815; 28 0.23 0 18.88; 29 5.19 0 19.86; 30 8.51 0 19.86
   21. 31 0.23 0 23.47; 32 5.19 0 23.47; 33 8.51 0 23.47; 34 11.45 0 23.47
   22. 35 16.02 0 23.47; 36 0 1.5 0; 37 4.58 1.5 0; 38 7.63 1.5 0.23
   23. 39 10.95 1.5 0.23; 40 16.25 1.5 0.23; 41 7.63 1.5 3.76; 42 10.95 1.5 3.76
   24. 43 16.25 1.5 5.7; 44 0 1.5 6; 45 4.58 1.5 6; 46 10.95 1.5 7.76
   25. 47 0.23 1.5 9.64; 48 4.58 1.5 9.64; 49 9.16 1.5 9.64; 50 11.22 1.5 9.64
   26. 51 9.16 1.5 11.52; 52 11.22 1.5 11.52; 53 16.02 1.5 11.52; 54 0.23 1.5 12.69
   27. 55 5.19 1.5 12.69; 56 7.87 1.5 12.69; 57 5.19 1.5 14.96; 58 7.87 1.5 14.96
   28. 59 11.45 1.5 14.96; 60 16.02 1.5 14.96; 61 11.45 1.5 17.815
   29. 62 16.02 1.5 17.815; 63 0.23 1.5 18.88; 64 5.19 1.5 19.86; 65 8.51 1.5 19.86
   30. 66 0.23 1.5 23.47; 67 5.19 1.5 23.47; 68 8.51 1.5 23.47; 69 11.45 1.5 23.47
   31. 70 16.02 1.5 23.47; 71 0 4.41 0; 72 4.58 4.41 0; 73 7.63 4.41 0.23
   32. 74 10.95 4.41 0.23; 75 16.25 4.41 0.23; 76 7.63 4.41 3.76; 77 10.95 4.41 3.76
   33. 78 16.25 4.41 5.7; 79 0 4.41 6; 80 4.58 4.41 6; 81 10.95 4.41 7.76
   34. 82 0.23 4.41 9.64; 83 4.58 4.41 9.64; 84 9.16 4.41 9.64; 85 11.22 4.41 9.64
   35. 86 9.16 4.41 11.52; 87 11.22 4.41 11.52; 88 16.02 4.41 11.52
   36. 89 0.23 4.41 12.69; 90 5.19 4.41 12.69; 91 7.87 4.41 12.69; 92 5.19 4.41 14.96
   37. 93 7.87 4.41 14.96; 94 11.45 4.41 14.96; 95 16.02 4.41 14.96
   38. 96 11.45 4.41 17.815; 97 16.02 4.41 17.815; 98 0.23 4.41 18.88
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841260154

39. 99 5.19 4.41 19.86; 100 8.51 4.41 19.86; 101 0.23 4.41 23.47
40. 102 5.19 4.41 23.47; 103 8.51 4.41 23.47; 104 11.45 4.41 23.47
41. 105 16.02 4.41 23.47; 106 0 7.42 0; 107 4.58 7.42 0; 108 7.63 7.42 0.23
42. 109 10.95 7.42 0.23; 110 16.25 7.42 0.23; 111 7.63 7.42 3.76
43. 112 10.95 7.42 3.76; 113 16.25 7.42 5.7; 114 0 7.42 6; 115 4.58 7.42 6
44. 116 10.95 7.42 7.76; 117 0.23 7.42 9.64; 118 4.58 7.42 9.64
45. 119 9.16 7.42 9.64; 120 11.22 7.42 9.64; 121 9.16 7.42 11.52
46. 122 11.22 7.42 11.52; 123 16.02 7.42 11.52; 124 0.23 7.42 12.69
47. 125 5.19 7.42 12.69; 126 7.87 7.42 12.69; 127 5.19 7.42 14.96
48. 128 7.87 7.42 14.96; 129 11.45 7.42 14.96; 130 16.02 7.42 14.96
49. 131 11.45 7.42 17.815; 132 16.02 7.42 17.815; 133 0.23 7.42 18.08
50. 134 5.19 7.42 19.86; 135 8.51 7.42 19.86; 136 0.23 7.42 23.47
51. 137 5.19 7.42 23.47; 138 8.51 7.42 23.47; 139 11.45 7.42 23.47
52. 140 16.02 7.42 23.47; 141 7.63 4.41 0; 142 10.95 4.41 0; 143 16.25 4.41 0
53. 144 16.25 4.41 3.76; 145 4.58 4.41 3.76; 146 7.63 4.41 1.88
54. 147 10.95 4.41 1.88; 148 0 4.41 3.76; 149 4.58 4.41 3.19; 150 7.63 4.41 3.19
55. 151 10.95 4.41 9.64; 152 0 4.41 9.64; 153 1.07 4.41 6; 154 1.07 4.41 3.76
56. 155 3.21 4.41 6; 156 3.21 4.41 3.76; 157 1.37 4.41 9.64; 158 1.37 4.41 6
57. 159 10.95 4.41 6; 160 16.25 4.41 11.52; 161 16.25 4.41 7.76
58. 162 10.95 4.41 5.7; 163 12.29 4.41 7.76; 164 12.29 4.41 5.7
59. 165 12.29 4.41 3.76; 166 15.18 4.41 7.76; 167 15.18 4.41 5.7
60. 168 15.18 4.41 3.76; 169 7.63 4.41 6; 170 0 4.41 4.93; 171 1.07 4.41 4.93
61. 172 0 4.41 12.69; 173 16.25 4.41 14.96; 174 0 4.41 18.08; 175 0 4.41 23.47
62. 176 16.25 4.41 17.815; 177 16.25 4.41 23.47; 178 5.19 4.41 17.815
63. 179 8.51 4.41 17.815; 180 11.45 4.41 19.86; 181 16.25 4.41 19.86
64. 182 0 4.41 19.86; 183 5.19 4.41 18.08; 184 1.37 4.41 19.86
65. 185 1.37 4.41 18.08; 186 3.96 4.41 19.86; 187 3.96 4.41 18.08
66. 188 0 4.41 16.45; 189 5.19 4.41 16.45; 190 1.37 4.41 16.45
67. 191 3.96 4.41 16.45; 192 5.19 4.41 23.17; 193 8.51 4.41 23.17
68. 194 5.19 4.41 21.83; 195 8.51 4.41 21.83; 196 13.045 4.41 19.86
69. 197 13.045 4.41 17.815; 198 15.18 4.41 19.86; 199 15.18 4.41 17.815
70. 200 14.88 4.41 17.815; 201 14.88 4.41 14.96; 202 15.18 4.41 18.7
71. 203 16.25 4.41 18.7; 204 11.22 4.41 14.96; 205 5.76 4.41 12.69
72. 206 5.76 4.41 9.64; 207 8.975 4.41 14.96; 208 8.975 4.41 14.17
73. 209 7.87 4.41 14.17; 210 6.95 4.41 12.69; 211 7.55 4.41 12.69
74. 214 5.76 4.41 11.785; 215 7.63 7.42 0; 216 10.95 7.42 0; 217 16.25 7.42 0
75. 218 16.25 7.42 3.76; 219 4.58 7.42 3.76; 220 7.63 7.42 1.88
76. 221 10.95 7.42 1.88; 222 0 7.42 3.76; 223 4.58 7.42 3.19; 224 7.63 7.42 3.19
77. 225 10.95 7.42 9.64; 226 0 7.42 9.64; 227 1.07 7.42 6; 228 1.07 7.42 3.76
78. 229 3.21 7.42 6; 230 3.21 7.42 3.76; 231 1.37 7.42 9.64; 232 1.37 7.42 6
79. 233 10.95 7.42 6; 234 16.25 7.42 11.52; 235 16.25 7.42 7.76
80. 236 10.95 7.42 5.7; 237 12.29 7.42 7.76; 238 12.29 7.42 5.7
81. 239 12.29 7.42 3.76; 240 15.18 7.42 7.76; 241 15.18 7.42 5.7
82. 242 15.18 7.42 3.76; 244 0 7.42 4.93; 245 1.07 7.42 4.93; 246 0 7.42 12.69
83. 247 16.25 7.42 14.96; 248 0 7.42 18.08; 249 0 7.42 23.47
84. 250 16.25 7.42 17.815; 251 16.25 7.41 23.47; 252 5.19 7.42 17.815
85. 254 11.45 7.42 19.86; 255 16.25 7.42 19.86; 256 0 7.42 19.86
86. 257 5.19 7.42 18.08; 258 1.37 7.42 19.86; 259 1.37 7.42 18.08
87. 260 3.96 7.42 19.86; 261 3.96 7.42 18.08; 262 0 7.42 16.45
88. 263 5.19 7.42 16.45; 264 1.37 7.42 16.45; 265 3.96 7.42 16.45
89. 266 5.19 7.42 23.17; 267 8.51 7.42 23.17; 268 5.19 7.42 21.83
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91. 272 15.18 7.42 19.86; 273 15.18 7.42 17.815; 274 14.88 7.42 17.815
92. 275 14.88 7.42 14.96; 276 15.18 7.42 18.7; 277 16.25 7.42 18.7
93. 278 11.22 7.42 14.96; 279 5.76 7.42 12.69; 280 5.76 7.42 9.64
94. 281 8.975 7.42 14.96; 282 8.975 7.42 14.17; 283 7.87 7.42 14.17

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

STAAD SPACE -- PAGE NO. 3

95. 284 6.95 7.42 12.69; 285 7.55 7.42 12.69; 288 5.76 7.42 11.785; 289 0 10.43 0
96. 290 4.58 10.43 0; 291 7.63 10.43 0.23; 292 10.95 10.43 0.23
97. 293 16.25 10.43 0.23; 294 7.63 10.43 3.76; 295 10.95 10.43 3.76
98. 296 16.25 10.43 5.7; 297 0 10.43 6; 298 4.58 10.43 6; 299 10.95 10.43 7.76
99. 300 0.23 10.43 9.64; 301 4.58 10.43 9.64; 302 9.16 10.43 9.64
100. 303 11.22 10.43 9.64; 304 9.16 10.43 11.52; 305 11.22 10.43 11.52
101. 306 16.02 10.43 11.52; 307 0.23 10.43 12.69; 308 5.19 10.43 12.69
102. 309 7.87 10.43 12.69; 310 5.19 10.43 14.96; 311 7.87 10.43 14.96
103. 312 11.45 10.43 14.96; 313 16.02 10.43 14.96; 314 11.45 10.43 17.815
104. 315 16.02 10.43 17.815; 316 0.23 10.43 18.08; 317 5.19 10.43 19.86
105. 318 8.51 10.43 19.86; 319 0.23 10.43 23.47; 320 5.19 10.43 23.47
106. 321 8.51 10.43 23.47; 322 11.45 10.43 23.47; 323 16.02 10.43 23.47
107. 324 7.63 10.43 0; 325 10.95 10.43 0; 326 16.25 10.43 0; 327 16.25 10.43 3.76
108. 328 4.58 10.43 3.76; 329 7.63 10.43 1.88; 330 10.95 10.43 1.88
109. 331 0 10.43 3.76; 332 4.58 10.43 3.19; 333 7.63 10.43 3.19
110. 334 10.95 10.43 9.64; 335 0 10.43 9.64; 336 1.07 10.43 6; 337 1.07 10.43 3.76
111. 338 3.21 10.43 6; 339 3.21 10.43 3.76; 340 1.37 10.43 9.64; 341 1.37 10.43 6
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113. 345 10.95 10.43 5.7; 346 12.29 10.43 7.76; 347 12.29 10.43 5.7
114. 348 12.29 10.43 3.76; 349 15.18 10.43 7.76; 350 15.18 10.43 5.7
115. 351 15.18 10.43 3.76; 352 0 10.43 4.93; 353 1.07 10.43 4.93; 354 0 10.43 12.69
116. 355 16.25 10.43 14.96; 356 0 10.43 18.08; 357 0 10.43 23.47
117. 358 16.25 10.43 17.815; 359 16.25 10.43 23.47; 360 5.19 10.43 17.815
118. 361 11.45 10.43 19.86; 362 16.25 10.43 19.86; 363 0 10.43 19.86
119. 364 5.19 10.43 18.08; 365 1.37 10.43 19.86; 366 1.37 10.43 18.08
120. 367 3.96 10.43 19.86; 368 3.96 10.43 18.08; 369 0 10.43 16.45
121. 370 5.19 10.43 16.45; 371 1.37 10.43 16.45; 372 3.96 10.43 16.45
122. 373 5.19 10.43 23.17; 374 8.51 10.43 23.17; 375 5.19 10.43 21.83
123. 376 8.51 10.43 21.83; 377 13.045 10.43 19.86; 378 13.045 10.43 17.815
124. 379 15.18 10.43 19.86; 380 15.18 10.43 17.815; 381 14.88 10.43 17.815
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127. 388 8.975 10.43 14.96; 389 8.975 10.43 14.17; 390 7.87 10.43 14.17
128. 391 6.95 10.43 12.69; 392 7.55 10.43 12.69; 395 5.76 10.43 11.785
129. 396 0 13.44 0; 397 4.58 13.44 0; 398 7.63 13.44 0.23; 399 10.95 13.44 0.23
130. 400 16.25 13.44 0.23; 401 7.63 13.44 3.76; 402 10.95 13.44 3.76
131. 403 16.25 13.44 5.7; 404 0 13.44 6; 405 4.58 13.44 6; 406 10.95 13.44 7.76
132. 407 0.23 13.44 9.64; 408 4.58 13.44 9.64; 409 9.16 13.44 9.64
133. 410 11.22 13.44 9.64; 411 9.16 13.44 11.52; 412 11.22 13.44 11.52
134. 413 16.02 13.44 11.52; 414 0.23 13.44 12.69; 415 5.19 13.44 12.69
135. 416 7.87 13.44 12.69; 417 5.19 13.44 14.96; 418 7.87 13.44 14.96
136. 419 11.45 13.44 14.96; 420 16.02 13.44 14.96; 421 11.45 13.44 17.815
137. 422 16.02 13.44 17.815; 423 0.23 13.44 18.08; 424 5.19 13.44 19.86
138. 425 8.51 13.44 19.86; 426 0.23 13.44 23.47; 427 5.19 13.44 23.47
139. 428 8.51 13.44 23.47; 429 11.45 13.44 23.47; 430 16.02 13.44 23.47
140. 431 7.63 13.44 0; 432 10.95 13.44 0; 433 16.25 13.44 0; 434 16.25 13.44 3.76
141. 435 4.58 13.44 3.76; 436 7.63 13.44 1.88; 437 10.95 13.44 1.88
142. 438 0 13.44 3.76; 439 4.58 13.44 3.19; 440 7.63 13.44 3.19
143. 441 10.95 13.44 9.64; 442 0 13.44 9.64; 443 1.07 13.44 6; 444 1.07 13.44 3.76
144. 445 3.21 13.44 6; 446 3.21 13.44 3.76; 447 1.37 13.44 9.64; 448 1.37 13.44 6
145. 449 10.95 13.44 6; 450 16.25 13.44 11.52; 451 16.25 13.44 7.76
146. 452 10.95 13.44 5.7; 453 12.29 13.44 7.76; 454 12.29 13.44 5.7
147. 455 12.29 13.44 3.76; 456 15.18 13.44 7.76; 457 15.18 13.44 5.7
148. 458 15.18 13.44 3.76; 459 0 13.44 4.93; 460 1.07 13.44 4.93; 461 0 13.44 12.69
149. 462 16.25 13.44 14.96; 463 0 13.44 18.08; 464 0 13.44 23.47
150. 465 16.25 13.44 17.815; 466 16.25 13.44 23.47; 467 5.19 13.44 17.815

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

151. 468 11.45 13.44 19.86; 469 16.25 13.44 19.86; 470 0 13.44 19.86
152. 471 5.19 13.44 18.08; 472 1.37 13.44 19.86; 473 1.37 13.44 18.08
153. 474 3.96 13.44 19.86; 475 3.96 13.44 18.08; 476 0 13.44 16.45
154. 477 5.19 13.44 16.45; 478 1.37 13.44 16.45; 479 3.96 13.44 16.45
155. 480 5.19 13.44 23.17; 481 8.51 13.44 23.17; 482 5.19 13.44 21.83
156. 483 8.51 13.44 21.83; 484 13.045 13.44 19.86; 485 13.045 13.44 17.815
157. 486 15.18 13.44 19.86; 487 15.18 13.44 17.815; 488 14.88 13.44 17.815
158. 489 14.88 13.44 14.96; 490 15.18 13.44 18.7; 491 16.25 13.44 18.7
159. 492 11.22 13.44 14.96; 493 5.76 13.44 12.69; 494 5.76 13.44 9.64
160. 495 8.975 13.44 14.96; 496 8.975 13.44 14.17; 497 7.87 13.44 14.17
161. 498 6.95 13.44 12.69; 499 7.55 13.44 12.69; 502 5.76 13.44 11.785
162. 503 0 16.45 0; 504 4.58 16.45 0; 505 7.63 16.45 0.23; 506 10.95 16.45 0.23
163. 507 16.25 16.45 0.23; 508 7.63 16.45 3.76; 509 10.95 16.45 3.76
164. 510 16.25 16.45 5.7; 511 0 16.45 6; 512 4.58 16.45 6; 513 10.95 16.45 7.76
165. 514 0.23 16.45 9.64; 515 4.58 16.45 9.64; 516 9.16 16.45 9.64
166. 517 11.22 16.45 9.64; 518 9.16 16.45 11.52; 519 11.22 16.45 11.52
167. 520 16.02 16.45 11.52; 521 0.23 16.45 12.69; 522 5.19 16.45 12.69
168. 523 7.87 16.45 12.69; 524 5.19 16.45 14.96; 525 7.87 16.45 14.96
169. 526 11.45 16.45 14.96; 527 16.02 16.45 14.96; 528 11.45 16.45 17.815
170. 529 16.02 16.45 17.815; 530 0.23 16.45 18.08; 531 5.19 16.45 19.86
171. 532 8.51 16.45 19.86; 533 0.23 16.45 23.47; 534 5.19 16.45 23.47
172. 535 8.51 16.45 23.47; 536 11.45 16.45 23.47; 537 16.02 16.45 23.47
173. 538 7.63 16.45 0; 539 10.95 16.45 0; 540 16.25 16.45 0; 541 16.25 16.45 3.76
174. 542 4.58 16.45 3.76; 543 7.63 16.45 1.88; 544 10.95 16.45 1.88
175. 545 0 16.45 3.76; 546 4.58 16.45 3.19; 547 7.63 16.45 3.19
176. 548 10.95 16.45 9.64; 549 0 16.45 9.64; 550 1.87 16.45 6; 551 1.87 16.45 3.76
177. 552 3.21 16.45 6; 553 3.21 16.45 3.76; 554 1.37 16.45 9.64; 555 1.37 16.45 6
178. 556 10.95 16.45 6; 557 16.25 16.45 11.52; 558 16.25 16.45 7.76
179. 559 10.95 16.45 5.7; 560 12.29 16.45 7.76; 561 12.29 16.45 5.7
180. 562 12.29 16.45 3.76; 563 15.18 16.45 7.76; 564 15.18 16.45 5.7
181. 565 15.18 16.45 3.76; 566 0 16.45 4.93; 567 1.87 16.45 4.93; 568 0 16.45 12.69
182. 569 16.25 16.45 14.96; 570 0 16.45 18.08; 571 0 16.45 23.47
183. 572 16.25 16.45 17.815; 573 16.25 16.45 23.47; 574 5.19 16.45 17.815
184. 575 11.45 16.45 19.86; 576 16.25 16.45 19.86; 577 0 16.45 19.86
185. 578 5.19 16.45 18.08; 579 1.37 16.45 19.86; 580 1.37 16.45 18.08
186. 581 3.96 16.45 19.86; 582 3.96 16.45 18.08; 583 0 16.45 16.45
187. 584 5.19 16.45 16.45; 585 1.37 16.45 16.45; 586 3.96 16.45 16.45
188. 587 5.19 16.45 23.17; 588 8.51 16.45 23.17; 589 5.19 16.45 21.83
189. 590 8.51 16.45 21.83; 591 13.045 16.45 19.86; 592 13.045 16.45 17.815
190. 593 15.18 16.45 19.86; 594 15.18 16.45 17.815; 595 14.88 16.45 17.815
191. 596 14.88 16.45 14.96; 597 15.18 16.45 18.7; 598 16.25 16.45 18.7
192. 599 11.22 16.45 14.96; 600 5.76 16.45 12.69; 601 5.76 16.45 9.64
193. 602 8.975 16.45 14.96; 603 8.975 16.45 14.17; 604 7.87 16.45 14.17
194. 605 6.95 16.45 12.69; 606 7.55 16.45 12.69; 609 5.76 16.45 11.785
195. 610 0 19.46 0; 611 4.58 19.46 0; 612 7.63 19.46 0.23; 613 10.95 19.46 0.23
196. 614 16.25 19.46 0.23; 615 7.63 19.46 3.76; 616 10.95 19.46 3.76
197. 617 16.25 19.46 5.7; 618 0 19.46 6; 619 4.58 19.46 6; 620 10.95 19.46 7.76
198. 621 0.23 19.46 9.64; 622 4.58 19.46 9.64; 623 9.16 19.46 9.64
199. 624 11.22 19.46 9.64; 625 9.16 19.46 11.52; 626 11.22 19.46 11.52
200. 627 16.02 19.46 11.52; 628 0.23 19.46 12.69; 629 5.19 19.46 12.69
201. 630 7.87 19.46 12.69; 631 5.19 19.46 14.96; 632 7.87 19.46 14.96
202. 633 11.45 19.46 14.96; 634 16.02 19.46 14.96; 635 11.45 19.46 17.815
203. 636 16.02 19.46 17.815; 637 0.23 19.46 18.08; 638 5.19 19.46 19.86
204. 639 8.51 19.46 19.86; 640 0.23 19.46 23.47; 641 5.19 19.46 23.47
205. 642 8.51 19.46 23.47; 643 11.45 19.46 23.47; 644 16.02 19.46 23.47
206. 645 7.63 19.46 0; 646 10.95 19.46 0; 647 16.25 19.46 0; 648 16.25 19.46 3.76

V. JAGEN, B.E.M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-1 / 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: 9841022154

207. 649 4.58 19.46 3.76; 650 7.63 19.46 1.88; 651 10.95 19.46 1.88
208. 652 0 19.46 3.76; 653 4.58 19.46 3.19; 654 7.63 19.46 3.19
209. 655 10.95 19.46 9.64; 656 0 19.46 9.64; 657 1.07 19.46 6; 658 1.07 19.46 3.76
210. 659 3.21 19.46 6; 660 3.21 19.46 3.76; 661 1.37 19.46 9.64; 662 1.37 19.46 6
211. 663 10.95 19.46 6; 664 16.25 19.46 11.52; 665 16.25 19.46 7.76
212. 666 10.95 19.46 5.7; 667 12.29 19.46 7.76; 668 12.29 19.46 5.7
213. 669 12.29 19.46 3.76; 670 15.18 19.46 7.76; 671 15.18 19.46 5.7
214. 672 15.18 19.46 3.76; 673 0 19.46 4.93; 674 1.07 19.46 4.93; 675 0 19.46 12.69
215. 676 16.25 19.46 14.96; 677 0 19.46 18.08; 678 0 19.46 23.47
216. 679 16.25 19.46 17.815; 680 16.25 19.46 23.47; 681 5.19 19.46 17.815
217. 682 11.45 19.46 19.86; 683 16.25 19.46 19.86; 684 0 19.46 19.86
218. 685 5.19 19.46 18.08; 686 1.37 19.46 19.86; 687 1.37 19.46 18.08
219. 688 3.96 19.46 19.86; 689 3.96 19.46 18.08; 690 0 19.46 16.45
220. 691 5.19 19.46 16.45; 692 1.37 19.46 16.45; 693 3.96 19.46 16.45
221. 694 5.19 19.46 23.17; 695 8.51 19.46 23.17; 696 5.19 19.46 21.83
222. 697 8.51 19.46 21.83; 698 13.045 19.46 19.86; 699 13.045 19.46 17.815
223. 700 15.18 19.46 19.86; 701 15.18 19.46 17.815; 702 14.88 19.46 17.815
224. 703 14.88 19.46 14.96; 704 15.18 19.46 18.7; 705 16.25 19.46 18.7
225. 706 11.22 19.46 14.96; 707 5.76 19.46 12.69; 708 5.76 19.46 9.64
226. 709 8.975 19.46 14.96; 710 8.975 19.46 14.17; 711 7.87 19.46 14.17
227. 712 6.95 19.46 12.69; 713 7.55 19.46 12.69; 716 5.76 19.46 11.785
228. 717 0 22.47 0; 718 4.58 22.47 0; 719 7.63 22.47 0.23; 720 10.95 22.47 0.23
229. 721 16.25 22.47 0.23; 722 7.63 22.47 3.76; 723 10.95 22.47 3.76
230. 724 16.25 22.47 5.7; 725 0 22.47 6; 726 4.58 22.47 6; 727 10.95 22.47 7.76
231. 728 0.23 22.47 9.64; 729 4.58 22.47 9.64; 730 9.16 22.47 9.64
232. 731 11.22 22.47 9.64; 732 9.16 22.47 11.52; 733 11.22 22.47 11.52
233. 734 16.02 22.47 11.52; 735 0.23 22.47 12.69; 736 5.19 22.47 12.69
234. 737 7.87 22.47 12.69; 738 5.19 22.47 14.96; 739 7.87 22.47 14.96
235. 740 11.45 22.47 14.96; 741 16.02 22.47 14.96; 742 11.45 22.47 17.815
236. 743 16.02 22.47 17.815; 744 0.23 22.47 18.88; 745 5.19 22.47 19.86
237. 746 8.51 22.47 19.86; 747 0.23 22.47 23.47; 748 5.19 22.47 23.47
238. 749 8.51 22.47 23.47; 750 11.45 22.47 23.47; 751 16.02 22.47 23.47
239. 752 7.63 22.47 0; 753 10.95 22.47 0; 754 16.25 22.47 0; 755 16.25 22.47 3.76
240. 756 4.58 22.47 3.76; 757 7.63 22.47 1.88; 758 10.95 22.47 1.88
241. 759 0 22.47 3.76; 760 4.58 22.47 3.19; 761 7.63 22.47 3.19
242. 762 10.95 22.47 9.64; 763 0 22.47 9.64; 764 1.07 22.47 6; 765 1.07 22.47 3.76
243. 766 3.21 22.47 6; 767 3.21 22.47 3.76; 768 1.37 22.47 9.64; 769 1.37 22.47 6
244. 770 10.95 22.47 6; 771 16.25 22.47 11.52; 772 16.25 22.47 7.76
245. 773 10.95 22.47 5.7; 774 12.29 22.47 7.76; 775 12.29 22.47 5.7
246. 776 12.29 22.47 3.76; 777 15.18 22.47 7.76; 778 15.18 22.47 5.7
247. 779 15.18 22.47 3.76; 780 0 22.47 4.93; 781 1.07 22.47 4.93; 782 0 22.47 12.69
248. 783 16.25 22.47 14.96; 784 0 22.47 18.08; 785 0 22.47 23.47
249. 786 16.25 22.47 17.815; 787 16.25 22.47 23.47; 788 5.19 22.47 17.815
250. 789 11.45 22.47 19.86; 790 16.25 22.47 19.86; 791 0 22.47 19.86
251. 792 5.19 22.47 18.08; 793 1.37 22.47 19.86; 794 1.37 22.47 18.08
252. 795 3.96 22.47 19.86; 796 3.96 22.47 18.08; 797 0 22.47 16.45
253. 798 5.19 22.47 16.45; 799 1.37 22.47 16.45; 800 3.96 22.47 16.45
254. 801 5.19 22.47 23.17; 802 8.51 22.47 23.17; 803 5.19 22.47 21.83
255. 804 8.51 22.47 21.83; 805 13.045 22.47 19.86; 806 13.045 22.47 17.815
256. 807 15.18 22.47 19.86; 808 15.18 22.47 17.815; 809 14.88 22.47 17.815
257. 810 14.88 22.47 14.96; 811 15.18 22.47 18.7; 812 16.25 22.47 18.7
258. 813 11.22 22.47 14.96; 814 5.76 22.47 12.69; 815 5.76 22.47 9.64
259. 816 8.975 22.47 14.96; 817 8.975 22.47 14.17; 818 7.87 22.47 14.17
260. 819 6.95 22.47 12.69; 820 7.55 22.47 12.69; 823 5.76 22.47 11.785
261. 824 0 25.48 0; 825 4.58 25.48 0; 826 7.63 25.48 0.23; 827 10.95 25.48 0.23
262. 828 16.25 25.48 0.23; 829 7.63 25.48 3.76; 830 10.95 25.48 3.76

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, CA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841209154

263. 831 16.25 25.48 5.7; 832 0 25.48 6; 833 4.58 25.48 6; 834 10.95 25.48 7.76
264. 835 0.23 25.48 9.64; 836 4.58 25.48 9.64; 837 9.16 25.48 9.64
265. 838 11.22 25.48 9.64; 839 9.16 25.48 11.52; 840 11.22 25.48 11.52
266. 841 16.02 25.48 11.52; 842 0.23 25.48 12.69; 843 5.19 25.48 12.69
267. 844 7.87 25.48 12.69; 845 5.19 25.48 14.96; 846 7.87 25.48 14.96
268. 847 11.45 25.48 14.96; 848 16.02 25.48 14.96; 849 11.45 25.48 17.815
269. 850 16.02 25.48 17.815; 851 0.23 25.48 18.08; 852 5.19 25.48 19.86
270. 853 8.51 25.48 19.86; 854 0.23 25.48 23.47; 855 5.19 25.48 23.47
271. 856 8.51 25.48 23.47; 857 11.45 25.48 23.47; 858 16.02 25.48 23.47
272. 859 7.63 25.48 0; 860 10.95 25.48 0; 861 16.25 25.48 0; 862 16.25 25.48 3.76
273. 863 4.58 25.48 3.76; 864 7.63 25.48 1.88; 865 10.95 25.48 1.88
274. 866 0 25.48 3.76; 867 4.58 25.48 3.19; 868 7.63 25.48 3.19
275. 869 10.95 25.48 9.64; 870 0 25.48 9.64; 871 1.07 25.48 6; 872 1.07 25.48 3.76
276. 873 3.21 25.48 6; 874 3.21 25.48 3.76; 875 1.37 25.48 9.64; 876 1.37 25.48 6
277. 877 10.95 25.48 6; 878 16.25 25.48 11.52; 879 16.25 25.48 7.76
278. 880 10.95 25.48 5.7; 881 12.29 25.48 7.76; 882 12.29 25.48 5.7
279. 883 12.29 25.48 3.76; 884 15.18 25.48 7.76; 885 15.18 25.48 5.7
280. 886 15.18 25.48 3.76; 887 0 25.48 4.93; 888 1.07 25.48 4.93; 889 0 25.48 12.69
281. 890 16.25 25.48 14.96; 891 0 25.48 18.08; 892 0 25.48 23.47
282. 893 16.25 25.48 17.815; 894 16.25 25.48 23.47; 895 5.19 25.48 17.815
283. 896 11.45 25.48 19.86; 897 16.25 25.48 19.86; 898 0 25.48 19.86
284. 899 5.19 25.48 18.08; 900 1.37 25.48 19.86; 901 1.37 25.48 18.08
285. 902 3.96 25.48 19.86; 903 3.96 25.48 18.08; 904 0 25.48 16.45
286. 905 5.19 25.48 16.45; 906 1.37 25.48 16.45; 907 3.96 25.48 16.45
287. 908 5.19 25.48 23.17; 909 8.51 25.48 23.17; 910 5.19 25.48 21.83
288. 911 8.51 25.48 21.83; 912 13.045 25.48 19.86; 913 13.045 25.48 17.815
289. 914 15.18 25.48 19.86; 915 15.18 25.48 17.815; 916 14.88 25.48 17.815
290. 917 14.88 25.48 14.96; 918 15.18 25.48 18.7; 919 16.25 25.48 18.7
291. 920 11.22 25.48 14.96; 921 5.76 25.48 12.69; 922 5.76 25.48 9.64
292. 923 8.975 25.48 14.96; 924 8.975 25.48 14.17; 925 7.87 25.48 14.17
293. 926 6.95 25.48 12.69; 927 7.55 25.48 12.69; 930 5.76 25.48 11.785
294. 931 0 28.49 0; 932 4.58 28.49 0; 933 7.63 28.49 0.23; 934 10.95 28.49 0.23
295. 935 16.25 28.49 0.23; 936 7.63 28.49 3.76; 937 10.95 28.49 3.76
296. 938 16.25 28.49 5.7; 939 0 28.49 6; 940 4.58 28.49 6; 941 10.95 28.49 7.76
297. 942 0.23 28.49 9.64; 943 4.58 28.49 9.64; 944 9.16 28.49 9.64
298. 945 11.22 28.49 9.64; 946 9.16 28.49 11.52; 947 11.22 28.49 11.52
299. 948 16.02 28.49 11.52; 949 0.23 28.49 12.69; 950 5.19 28.49 12.69
300. 951 7.87 28.49 12.69; 952 5.19 28.49 14.96; 953 7.87 28.49 14.96
301. 954 11.45 28.49 14.96; 955 16.02 28.49 14.96; 956 11.45 28.49 17.815
302. 957 16.02 28.49 17.815; 958 0.23 28.49 18.08; 959 5.19 28.49 19.86
303. 960 8.51 28.49 19.86; 961 0.23 28.49 23.47; 962 5.19 28.49 23.47
304. 963 8.51 28.49 23.47; 964 11.45 28.49 23.47; 965 16.02 28.49 23.47
305. 966 7.63 28.49 0; 967 10.95 28.49 0; 968 16.25 28.49 0; 969 16.25 28.49 3.76
306. 970 4.58 28.49 3.76; 971 7.63 28.49 1.88; 972 10.95 28.49 1.88
307. 973 0 28.49 3.76; 974 4.58 28.49 3.19; 975 7.63 28.49 3.19
308. 976 10.95 28.49 9.64; 977 0 28.49 9.64; 978 1.07 28.49 6; 979 1.07 28.49 3.76
309. 980 3.21 28.49 6; 981 3.21 28.49 3.76; 982 1.37 28.49 9.64; 983 1.37 28.49 6
310. 984 10.95 28.49 6; 985 16.25 28.49 11.52; 986 16.25 28.49 7.76
311. 987 10.95 28.49 5.7; 988 12.29 28.49 7.76; 989 12.29 28.49 5.7
312. 990 12.29 28.49 3.76; 991 15.18 28.49 7.76; 992 15.18 28.49 5.7
313. 993 15.18 28.49 3.76; 994 0 28.49 4.93; 995 1.07 28.49 4.93; 996 0 28.49 12.69
314. 997 16.25 28.49 14.96; 998 0 28.49 18.08; 999 0 28.49 23.47
315. 1000 16.25 28.49 17.815; 1001 16.25 28.49 23.47; 1002 5.19 28.49 17.815
316. 1003 11.45 28.49 19.86; 1004 16.25 28.49 19.86; 1005 0 28.49 19.86
317. 1006 5.19 28.49 18.08; 1007 1.37 28.49 19.86; 1008 1.37 28.49 18.08
318. 1009 3.96 28.49 19.86; 1010 3.96 28.49 18.08; 1011 0 28.49 16.45

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.

319. 1012 5.19 28.49 16.45; 1013 1.37 28.49 16.45; 1014 3.96 28.49 16.45
320. 1015 5.19 28.49 23.17; 1016 8.51 28.49 23.17; 1017 5.19 28.49 21.83
321. 1018 8.51 28.49 21.83; 1019 13.045 28.49 19.86; 1020 13.045 28.49 17.815
322. 1021 15.18 28.49 19.86; 1022 15.18 28.49 17.815; 1023 14.88 28.49 17.815
323. 1024 14.88 28.49 14.96; 1025 15.18 28.49 18.7; 1026 16.25 28.49 18.7
324. 1027 11.22 28.49 14.96; 1028 5.76 28.49 12.69; 1029 5.76 28.49 9.64
325. 1030 8.975 28.49 14.96; 1031 8.975 28.49 14.17; 1032 7.87 28.49 14.17
326. 1033 6.95 28.49 12.69; 1034 7.55 28.49 12.69; 1037 5.76 28.49 11.785
327. 1038 0 31.5 0; 1039 4.58 31.5 0; 1040 7.63 31.5 0.23; 1041 10.95 31.5 0.23
328. 1042 16.25 31.5 0.23; 1043 7.63 31.5 3.76; 1044 10.95 31.5 3.76
329. 1045 16.25 31.5 5.7; 1046 0 31.5 6; 1047 4.58 31.5 6; 1048 10.95 31.5 7.76
330. 1049 0.23 31.5 9.64; 1050 4.58 31.5 9.64; 1051 9.16 31.5 9.64
331. 1052 11.22 31.5 9.64; 1053 9.16 31.5 11.52; 1054 11.22 31.5 11.52
332. 1055 16.02 31.5 11.52; 1056 0.23 31.5 12.69; 1057 5.19 31.5 12.69
333. 1058 7.87 31.5 12.69; 1059 5.19 31.5 14.96; 1060 7.87 31.5 14.96
334. 1061 11.45 31.5 14.96; 1062 16.02 31.5 14.96; 1063 11.45 31.5 17.815
335. 1064 16.02 31.5 17.815; 1065 0.23 31.5 18.88; 1066 5.19 31.5 19.86
336. 1067 8.51 31.5 19.86; 1068 0.23 31.5 23.47; 1069 5.19 31.5 23.47
337. 1070 8.51 31.5 23.47; 1071 11.45 31.5 23.47; 1072 16.02 31.5 23.47
338. 1073 7.63 31.5 0; 1074 10.95 31.5 0; 1075 16.25 31.5 0; 1076 16.25 31.5 3.76
339. 1077 4.58 31.5 3.76; 1078 7.63 31.5 1.88; 1079 10.95 31.5 1.88
340. 1080 0 31.5 3.76; 1081 4.58 31.5 3.19; 1082 7.63 31.5 3.19
341. 1083 10.95 31.5 9.64; 1084 0 31.5 9.64; 1085 1.07 31.5 6; 1086 1.07 31.5 3.76
342. 1087 3.21 31.5 6; 1088 3.21 31.5 3.76; 1089 1.37 31.5 9.64; 1090 1.37 31.5 6
343. 1091 10.95 31.5 6; 1092 16.25 31.5 11.52; 1093 16.25 31.5 7.76
344. 1094 10.95 31.5 5.7; 1095 12.29 31.5 7.76; 1096 12.29 31.5 5.7
345. 1097 13.39 31.5 3.76; 1098 15.18 31.5 7.76; 1099 15.18 31.5 5.7
346. 1100 15.18 31.5 3.76; 1101 0 31.5 4.93; 1102 1.07 31.5 4.93; 1103 0 31.5 12.69
347. 1104 16.25 31.5 14.96; 1105 0 31.5 18.88; 1106 0 31.5 23.47
348. 1107 16.25 31.5 17.815; 1108 16.25 31.5 23.47; 1109 5.19 31.5 17.815
349. 1110 11.45 31.5 19.86; 1111 16.25 31.5 19.86; 1112 0 31.5 19.86
350. 1113 5.19 31.5 18.88; 1114 1.37 31.5 19.86; 1115 1.37 31.5 18.88
351. 1116 3.96 31.5 19.86; 1117 3.96 31.5 18.88; 1118 0 31.5 16.45
352. 1119 5.19 31.5 16.45; 1120 1.37 31.5 16.45; 1121 3.96 31.5 16.45
353. 1122 5.19 31.5 23.17; 1123 8.51 31.5 23.17; 1124 5.19 31.5 21.83
354. 1125 8.51 31.5 21.83; 1126 13.045 31.5 19.86; 1127 13.045 31.5 17.815
355. 1128 15.18 31.5 19.86; 1129 15.18 31.5 17.815; 1130 14.88 31.5 17.815
356. 1131 14.88 31.5 14.96; 1132 15.18 31.5 18.7; 1133 16.25 31.5 18.7
357. 1134 11.22 31.5 14.96; 1135 5.76 31.5 12.69; 1136 5.76 31.5 9.64
358. 1137 8.975 31.5 14.96; 1138 8.975 31.5 14.17; 1139 7.87 31.5 14.17
359. 1140 6.95 31.5 12.69; 1141 7.55 31.5 12.69; 1144 5.76 31.5 11.785
360. 1145 0.23 34.51 9.64; 1146 4.58 34.51 9.64; 1147 9.16 34.51 9.64
361. 1148 11.22 34.51 9.64; 1149 9.16 34.51 11.52; 1150 11.22 34.51 11.52
362. 1151 16.02 34.51 11.52; 1152 0.23 34.51 12.69; 1153 5.19 34.51 12.69
363. 1154 7.87 34.51 12.69; 1155 5.19 34.51 14.96; 1156 7.87 34.51 14.96
364. 1157 11.45 34.51 14.96; 1158 16.02 34.51 14.96; 1159 10.95 34.51 9.64
365. 1160 1.37 34.51 9.64; 1162 14.88 34.51 14.96; 1163 11.22 34.51 14.96
366. 1164 5.76 34.51 12.69; 1165 5.76 34.51 9.64; 1166 8.975 34.51 14.96
367. 1168 7.87 34.51 14.17; 1169 6.95 34.51 12.69; 1170 7.55 34.51 12.69
368. 1172 7.55 34.51 11.785; 1173 5.76 34.51 11.785; 1174 7.55 34.51 11.52
369. 1175 16.02 34.51 15.775; 1176 11.22 34.51 15.775; 1177 7.63 34.51 0.23
370. 1178 10.95 34.51 0.23; 1179 7.63 34.51 3.76; 1180 10.95 34.51 3.76
371. 1181 7.63 34.51 1.88; 1182 10.95 34.51 1.88; 1183 7.63 34.51 3.19
372. 1184 7.63 34.51 0.965; 1185 10.95 34.51 0.965; 1186 4.58 1.5 3.76
373. 1190 16.25 1.5 3.76; 1191 10.95 1.5 6; 1192 7.63 1.5 6; 1193 7.73 1.5 9.64
374. 1194 7.73 1.5 6; 1195 10.95 1.5 5.7; 1200 11.45 1.5 19.86; 1206 7.7 1.5 19.86

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

375. 1207 7.7 1.5 14.96; 1208 5.19 1.5 18.08; 1210 5.19 1.5 17.53
376. 1211 7.7 1.5 17.53; 1212 11.45 1.5 11.52; 1213 5.76 1.5 12.69
377. 1214 5.76 1.5 9.64; 1215 10.95 1.5 9.64; 1216 7.87 1.5 14.17
378. 1217 8.975 1.5 14.17; 1218 8.975 1.5 14.96; 1219 5.76 1.5 11.785
379. 1220 6.95 1.5 11.785; 1221 7.55 1.5 11.785; 1222 7.55 1.5 12.69
380. 1223 6.95 1.5 12.69; 1224 9.16 36.01 9.64; 1225 11.22 36.01 9.64
381. 1226 9.16 36.01 11.52; 1227 11.22 36.01 11.52; 1228 5.19 36.01 12.69
382. 1229 7.87 36.01 12.69; 1230 5.19 36.01 14.96; 1231 7.87 36.01 14.96
383. 1232 10.95 36.01 9.64; 1233 5.76 36.01 12.69; 1234 7.87 36.01 14.17
384. 1235 6.95 36.01 12.69; 1236 7.55 36.01 12.69; 1237 5.19 0.375 12.69
385. 1238 5.19 0.75 12.69; 1239 5.19 1.125 12.69; 1240 5.19 1.985 12.69
386. 1241 5.19 2.47 12.69; 1242 5.19 2.955 12.69; 1243 5.19 3.44 12.69
387. 1244 5.19 3.925 12.69; 1245 5.19 4.78625 12.69; 1246 5.19 5.1625 12.69
388. 1247 5.19 5.53875 12.69; 1248 5.19 5.915 12.69; 1249 5.19 6.29125 12.69
389. 1250 5.19 6.6675 12.69; 1251 5.19 7.04375 12.69; 1252 5.19 7.79625 12.69
390. 1253 5.19 8.1725 12.69; 1254 5.19 8.54875 12.69; 1255 5.19 8.925 12.69
391. 1256 5.19 9.30125 12.69; 1257 5.19 9.6775 12.69; 1258 5.19 10.0538 12.69
392. 1259 5.19 10.8063 12.69; 1260 5.19 11.1825 12.69; 1261 5.19 11.5588 12.69
393. 1262 5.19 11.935 12.69; 1263 5.19 12.3112 12.69; 1264 5.19 12.6875 12.69
394. 1265 5.19 13.0637 12.69; 1266 5.19 13.8162 12.69; 1267 5.19 14.1925 12.69
395. 1268 5.19 14.5688 12.69; 1269 5.19 14.945 12.69; 1270 5.19 15.3212 12.69
396. 1271 5.19 15.6975 12.69; 1272 5.19 16.0738 12.69; 1273 5.19 16.8263 12.69
397. 1274 5.19 17.2025 12.69; 1275 5.19 17.5788 12.69; 1276 5.19 17.955 12.69
398. 1277 5.19 18.3312 12.69; 1278 5.19 18.7075 12.69; 1279 5.19 19.0837 12.69
399. 1280 5.19 19.8362 12.69; 1281 5.19 20.2125 12.69; 1282 5.19 20.5887 12.69
400. 1283 5.19 20.965 12.69; 1284 5.19 21.3412 12.69; 1285 5.19 21.7175 12.69
401. 1286 5.19 22.0938 12.69; 1287 5.19 22.8462 12.69; 1288 5.19 23.2225 12.69
402. 1289 5.19 23.5987 12.69; 1290 5.19 23.975 12.69; 1291 5.19 24.3512 12.69
403. 1292 5.19 24.7275 12.69; 1293 5.19 25.1038 12.69; 1294 5.19 25.8562 12.69
404. 1295 5.19 26.2325 12.69; 1296 5.19 26.6087 12.69; 1297 5.19 26.985 12.69
405. 1298 5.19 27.3612 12.69; 1299 5.19 27.7375 12.69; 1300 5.19 28.1138 12.69
406. 1301 5.19 28.8662 12.69; 1302 5.19 29.2425 12.69; 1303 5.19 29.6187 12.69
407. 1304 5.19 29.995 12.69; 1305 5.19 30.3713 12.69; 1306 5.19 30.7475 12.69
408. 1307 5.19 31.1238 12.69; 1308 5.19 31.8762 12.69; 1309 5.19 32.2525 12.69
409. 1310 5.19 32.6287 12.69; 1311 5.19 33.005 12.69; 1312 5.19 33.3812 12.69
410. 1313 5.19 33.7575 12.69; 1314 5.19 34.1337 12.69; 1315 5.19 34.885 12.69
411. 1316 5.19 35.26 12.69; 1317 5.19 35.635 12.69; 1318 5.475 36.01 12.69
412. 1319 6.0575 36.01 12.69; 1320 6.355 36.01 12.69; 1321 6.6525 36.01 12.69
413. 1322 7.25 36.01 12.69; 1323 7.71 36.01 12.69; 1324 7.87 35.635 12.69
414. 1325 7.87 35.26 12.69; 1326 7.87 34.885 12.69; 1327 7.87 34.1337 12.69
415. 1328 7.87 33.7575 12.69; 1329 7.87 33.3812 12.69; 1330 7.87 33.005 12.69
416. 1331 7.87 32.6287 12.69; 1332 7.87 32.2525 12.69; 1333 7.87 31.8762 12.69
417. 1334 7.87 31.1238 12.69; 1335 7.87 30.7475 12.69; 1336 7.87 30.3713 12.69
418. 1337 7.87 29.995 12.69; 1338 7.87 29.6187 12.69; 1339 7.87 29.2425 12.69
419. 1340 7.87 28.8662 12.69; 1341 7.87 28.1138 12.69; 1342 7.87 27.7375 12.69
420. 1343 7.87 27.3612 12.69; 1344 7.87 26.985 12.69; 1345 7.87 26.6087 12.69
421. 1346 7.87 26.2325 12.69; 1347 7.87 25.8562 12.69; 1348 7.87 25.1038 12.69
422. 1349 7.87 24.7275 12.69; 1350 7.87 24.3512 12.69; 1351 7.87 23.975 12.69
423. 1352 7.87 23.5987 12.69; 1353 7.87 23.2225 12.69; 1354 7.87 22.8462 12.69
424. 1355 7.87 22.0938 12.69; 1356 7.87 21.7175 12.69; 1357 7.87 21.3412 12.69
425. 1358 7.87 20.965 12.69; 1359 7.87 20.5887 12.69; 1360 7.87 20.2125 12.69
426. 1361 7.87 19.8362 12.69; 1362 7.87 19.0837 12.69; 1363 7.87 18.7075 12.69
427. 1364 7.87 18.3312 12.69; 1365 7.87 17.955 12.69; 1366 7.87 17.5788 12.69
428. 1367 7.87 17.2025 12.69; 1368 7.87 16.8263 12.69; 1369 7.87 16.0738 12.69
429. 1370 7.87 15.6975 12.69; 1371 7.87 15.3212 12.69; 1372 7.87 14.945 12.69
430. 1373 7.87 14.5688 12.69; 1374 7.87 14.1925 12.69; 1375 7.87 13.8162 12.69

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: 9841259154

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431. 1376 7.87 13.0637 12.69; 1377 7.87 12.6875 12.69; 1378 7.87 12.3112 12.69
432. 1379 7.87 11.935 12.69; 1380 7.87 11.5588 12.69; 1381 7.87 11.1825 12.69
433. 1382 7.87 10.8063 12.69; 1383 7.87 10.0538 12.69; 1384 7.87 9.6775 12.69
434. 1385 7.87 9.30125 12.69; 1386 7.87 8.925 12.69; 1387 7.87 8.54875 12.69
435. 1388 7.87 8.1725 12.69; 1389 7.87 7.79625 12.69; 1390 7.87 7.04375 12.69
436. 1391 7.87 6.6675 12.69; 1392 7.87 6.29125 12.69; 1393 7.87 5.915 12.69
437. 1394 7.87 5.53875 12.69; 1395 7.87 5.1625 12.69; 1396 7.87 4.78625 12.69
438. 1397 7.87 3.925 12.69; 1398 7.87 3.44 12.69; 1399 7.87 2.955 12.69
439. 1400 7.87 2.47 12.69; 1401 7.87 1.985 12.69; 1402 7.87 1.125 12.69
440. 1403 7.87 0.75 12.69; 1404 7.87 0.375 12.69; 1405 7.42333 0 12.69
441. 1406 6.97667 0 12.69; 1407 6.53 0 12.69; 1408 6.08333 0 12.69
442. 1409 5.63667 0 12.69; 1410 5.475 4.41 12.69; 1411 6.0575 4.41 12.69
443. 1412 6.355 4.41 12.69; 1413 6.6525 4.41 12.69; 1414 7.25 4.41 12.69
444. 1415 7.71 4.41 12.69; 1416 5.475 7.42 12.69; 1417 6.0575 7.42 12.69
445. 1418 6.355 7.42 12.69; 1419 6.6525 7.42 12.69; 1420 7.25 7.42 12.69
446. 1421 7.71 7.42 12.69; 1422 5.475 10.43 12.69; 1423 6.0575 10.43 12.69
447. 1424 6.355 10.43 12.69; 1425 6.6525 10.43 12.69; 1426 7.25 10.43 12.69
448. 1427 7.71 10.43 12.69; 1428 5.475 13.44 12.69; 1429 6.0575 13.44 12.69
449. 1430 6.355 13.44 12.69; 1431 6.6525 13.44 12.69; 1432 7.25 13.44 12.69
450. 1433 7.71 13.44 12.69; 1434 5.475 16.45 12.69; 1435 6.0575 16.45 12.69
451. 1436 6.355 16.45 12.69; 1437 6.6525 16.45 12.69; 1438 7.25 16.45 12.69
452. 1439 7.71 16.45 12.69; 1440 5.475 19.46 12.69; 1441 6.0575 19.46 12.69
453. 1442 6.355 19.46 12.69; 1443 6.6525 19.46 12.69; 1444 7.25 19.46 12.69
454. 1445 7.71 19.46 12.69; 1446 5.475 22.47 12.69; 1447 6.0575 22.47 12.69
455. 1448 6.355 22.47 12.69; 1449 6.6525 22.47 12.69; 1450 7.25 22.47 12.69
456. 1451 7.71 22.47 12.69; 1452 5.475 25.48 12.69; 1453 6.0575 25.48 12.69
457. 1454 6.355 25.48 12.69; 1455 6.6525 25.48 12.69; 1456 7.25 25.48 12.69
458. 1457 7.71 25.48 12.69; 1458 5.475 28.49 12.69; 1459 6.0575 28.49 12.69
459. 1460 6.355 28.49 12.69; 1461 6.6525 28.49 12.69; 1462 7.25 28.49 12.69
460. 1463 7.71 28.49 12.69; 1464 5.475 31.5 12.69; 1465 6.0575 31.5 12.69
461. 1466 6.355 31.5 12.69; 1467 6.6525 31.5 12.69; 1468 7.25 31.5 12.69
462. 1469 7.71 31.5 12.69; 1470 5.475 34.51 12.69; 1471 6.0575 34.51 12.69
463. 1472 6.355 34.51 12.69; 1473 6.6525 34.51 12.69; 1474 7.25 34.51 12.69
464. 1475 7.71 34.51 12.69; 1476 5.475 1.5 12.69; 1477 6.0575 1.5 12.69
465. 1478 6.355 1.5 12.69; 1479 6.6525 1.5 12.69; 1480 7.71 1.5 12.69
466. 1481 7.25 1.5 12.69; 1482 6.90769 35.3022 12.69; 1483 6.36519 35.3209 12.69
467. 1484 5.77909 35.2939 12.69; 1485 7.23924 33.8851 12.69
468. 1486 7.20877 33.085 12.69; 1487 7.23936 32.125 12.69
469. 1488 5.8696 33.7442 12.69; 1489 5.9425 33.085 12.69
470. 1490 7.24095 30.8754 12.69; 1491 5.86979 32.2661 12.69
471. 1492 7.2321 29.995 12.69; 1493 7.24095 29.1146 12.69
472. 1494 5.86995 30.7328 12.69; 1495 5.9425 29.995 12.69
473. 1496 7.24095 27.8654 12.69; 1497 5.86989 29.2572 12.69
474. 1498 7.2321 26.985 12.69; 1499 7.24095 26.1046 12.69
475. 1500 5.86995 27.7228 12.69; 1501 5.9425 26.985 12.69
476. 1502 7.24095 24.8554 12.69; 1501 5.86989 26.2472 12.69
477. 1504 7.2321 23.975 12.69; 1505 7.24095 23.0946 12.69
478. 1506 5.86995 24.7128 12.69; 1507 5.9425 23.975 12.69
479. 1508 7.23931 21.845 12.69; 1509 5.86989 23.2372 12.69
480. 1510 7.19971 20.965 12.69; 1511 7.23931 20.085 12.69
481. 1512 5.86985 21.704 12.69; 1513 5.9425 20.965 12.69
482. 1514 7.24095 18.8354 12.69; 1515 5.86979 20.226 12.69
483. 1516 7.2321 17.955 12.69; 1517 7.24095 17.0746 12.69
484. 1518 5.86995 18.6928 12.69; 1519 5.9425 17.955 12.69
485. 1520 7.24095 15.8254 12.69; 1521 5.86989 17.2172 12.69
486. 1522 7.2321 14.945 12.69; 1523 7.24095 14.0646 12.69
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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: 9841269154

```
487. 1524 5.86995 15.6828 12.69; 1525 5.9425 14.945 12.69
488. 1526 7.23931 12.815 12.69; 1527 5.86989 14.2072 12.69
489. 1528 7.10971 11.935 12.69; 1529 7.23931 11.055 12.69
490. 1530 5.86985 12.674 12.69; 1531 5.9425 11.935 12.69
491. 1532 7.24095 9.88541 12.69; 1533 5.86979 11.196 12.69; 1534 7.2321 8.925 12.69
492. 1535 7.24095 8.04459 12.69; 1536 5.86995 9.66278 12.69
493. 1537 5.9425 8.925 12.69; 1538 7.24129 6.7949 12.69; 1539 5.86989 8.18723 12.69
494. 1540 7.23151 5.91574 12.69; 1541 7.23561 5.039 12.69
495. 1542 5.8722 6.65093 12.69; 1543 5.9425 5.915 12.69; 1544 6.91251 3.46005 12.69
496. 1545 5.87328 5.17583 12.69; 1546 6.90854 2.45283 12.69
497. 1547 5.80039 3.44836 12.69; 1548 7.15401 0.855134 12.69
498. 1549 5.82482 2.46794 12.69; 1550 6.09332 0.87396 12.69
499. 1551 6.53074 33.0053 12.69; 1552 6.56159 29.995 12.69
500. 1553 6.56159 26.985 12.69; 1554 6.56159 23.975 12.69
501. 1555 6.52588 20.965 12.69; 1556 6.56159 17.955 12.69
502. 1557 6.56159 14.945 12.69; 1558 6.52588 11.935 12.69; 1559 6.56159 8.925 12.69
503. 1560 6.56414 5.91396 12.69; 1561 6.5861 33.7719 12.69
504. 1562 6.50794 32.238 12.69; 1563 6.50984 18.7203 12.69
505. 1564 6.5075 11.168 12.69; 1565 6.51184 29.2286 12.69
506. 1566 6.50984 30.7603 12.69; 1567 6.50984 24.7403 12.69
507. 1568 6.51104 8.15859 12.69; 1569 6.50984 9.69028 12.69
508. 1570 6.50641 21.7308 12.69; 1571 6.5075 20.198 12.69
509. 1572 6.51104 23.2086 12.69; 1573 6.51104 14.1786 12.69
510. 1574 6.50641 12.7008 12.69; 1575 6.51104 17.1886 12.69
511. 1576 6.50984 15.7103 12.69; 1577 6.50984 27.7503 12.69
512. 1578 6.51104 26.2186 12.69; 1579 6.51474 5.14809 12.69
513. 1580 6.51228 6.67656 12.69; 1581 7.43103 35.2895 12.69
514. 1582 7.41844 3.4636 12.69; 1583 7.41394 2.4518 12.69
515. 1584 6.37285 2.43335 12.69; 1585 6.37494 3.47677 12.69
516. 1586 6.09114 0.4172 12.69; 1587 5.62855 0.767527 12.69
517. 1588 6.91539 34.9081 12.69; 1589 6.62167 35.311 12.69
518. 1590 6.36009 34.915 12.69; 1591 5.49519 3.44418 12.69
519. 1592 5.78835 3.92552 12.69; 1593 6.88315 32.2083 12.69
520. 1594 6.4316 31.8808 12.69; 1595 7.01819 31.833 12.69
521. 1596 7.39884 25.1262 12.69; 1597 7.00867 25.1428 12.69
522. 1598 7.39885 7.06608 12.69; 1599 7.55693 6.71857 12.69
523. 1600 5.81653 13.8349 12.69; 1601 5.53225 14.2012 12.69
524. 1602 6.09075 35.3082 12.69; 1603 5.77017 34.9274 12.69
525. 1604 5.81653 7.81488 12.69; 1605 5.53225 8.18117 12.69
526. 1606 5.53414 27.7298 12.69; 1607 5.81795 28.0958 12.69
527. 1608 7.23112 29.5684 12.69; 1609 7.55697 29.1994 12.69
528. 1610 7.55105 29.995 12.69; 1611 5.81748 4.80446 12.69
529. 1612 5.53517 5.16924 12.69; 1613 6.88684 5.11812 12.69
530. 1614 6.43457 4.79233 12.69; 1615 7.02267 4.74831 12.69
531. 1616 7.39868 13.0863 12.69; 1617 7.0081 13.1025 12.69
532. 1618 6.4315 19.8408 12.69; 1619 6.20818 20.2175 12.69
533. 1620 5.81646 19.8544 12.69; 1621 7.00854 7.08207 12.69
534. 1622 7.23112 8.49844 12.69; 1623 7.55697 8.12939 12.69
535. 1624 7.55105 8.925 12.69; 1625 5.53414 15.6898 12.69
536. 1626 5.81795 16.0559 12.69; 1627 6.3752 2.95551 12.69
537. 1628 6.64857 2.45175 12.69; 1629 6.91021 2.95697 12.69
538. 1630 6.64784 3.46531 12.69; 1631 6.29602 1.17498 12.69
539. 1632 5.85168 1.15616 12.69; 1633 7.22509 32.5826 12.69
540. 1634 7.55697 32.2094 12.69; 1635 7.53538 33.005 12.69
541. 1636 6.88245 33.8828 12.69; 1637 6.52659 33.3909 12.69
542. 1638 6.86575 33.0051 12.69; 1639 7.2251 33.4274 12.69
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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

543. 1640 5.53225 26.2412 12.69; 1641 5.90667 26.6127 12.69
544. 1642 5.56625 26.985 12.69; 1643 5.56625 23.975 12.69
545. 1644 5.90667 24.3473 12.69; 1645 5.53414 24.7198 12.69
546. 1646 6.88907 3.45949 12.69; 1647 6.36471 3.96299 12.69
547. 1648 7.40311 1.15342 12.69; 1649 7.53024 0.770896 12.69
548. 1650 7.55697 27.7806 12.69; 1651 7.23112 27.4116 12.69
549. 1652 7.55185 26.985 12.69; 1653 6.20023 29.2482 12.69
550. 1654 6.54247 29.6183 12.69; 1655 6.25205 29.995 12.69
551. 1656 5.90667 29.6227 12.69; 1657 6.88315 27.7817 12.69
552. 1658 6.54247 27.3697 12.69; 1659 6.89684 26.985 12.69
553. 1660 5.81653 25.8749 12.69; 1661 5.90667 27.3573 12.69
554. 1662 5.76888 35.677 12.69; 1663 6.36809 35.6658 12.69
555. 1664 7.40883 2.9574 12.69; 1665 7.64222 2.44925 12.69
556. 1666 7.64597 3.46288 12.69; 1667 7.45085 3.95865 12.69
557. 1668 6.88315 24.7717 12.69; 1669 6.54247 24.3597 12.69
558. 1670 6.89684 23.975 12.69; 1671 7.23112 24.4016 12.69
559. 1672 5.53225 29.2512 12.69; 1673 5.56625 29.995 12.69
560. 1674 7.55698 33.8006 12.69; 1675 7.01878 25.8129 12.69
561. 1676 7.42596 25.8283 12.69; 1677 7.39868 34.1561 12.69
562. 1678 7.55697 26.1894 12.69; 1679 5.56625 33.085 12.69
563. 1680 5.9065 33.378 12.69; 1681 5.53395 33.7506 12.69
564. 1682 5.81767 34.1166 12.69; 1683 6.20023 26.2382 12.69
565. 1684 6.54247 26.6083 12.69; 1685 6.25205 26.985 12.69
566. 1686 6.88315 14.1483 12.69; 1687 6.43251 13.8211 12.69
567. 1688 7.01878 13.7729 12.69; 1689 5.53447 6.65913 12.69
568. 1690 5.81861 7.82473 12.69; 1691 6.43251 22.8511 12.69
569. 1692 6.20023 23.2282 12.69; 1693 5.81653 22.8649 12.69
570. 1694 5.53225 23.2312 12.69; 1695 7.55697 21.7606 12.69
571. 1696 7.22456 21.3874 12.69; 1697 7.53485 20.965 12.69
572. 1698 7.42596 22.8183 12.69; 1699 7.55697 23.1794 12.69
573. 1700 6.43047 34.1252 12.69; 1701 7.00815 34.1728 12.69
574. 1702 7.42596 16.7983 12.69; 1703 7.01878 16.7829 12.69
575. 1704 5.81653 16.8449 12.69; 1705 5.53225 17.2112 12.69
576. 1706 7.42553 4.7582 12.69; 1707 6.88315 30.7917 12.69
577. 1708 6.54247 30.3797 12.69; 1709 6.89684 29.995 12.69
578. 1710 7.23112 30.4216 12.69; 1711 7.42596 28.8383 12.69
579. 1712 7.39884 31.1462 12.69; 1713 7.00867 31.1628 12.69
580. 1714 6.52492 11.5503 12.69; 1715 6.88315 11.1383 12.69
581. 1716 7.22456 11.5126 12.69; 1717 6.86279 11.935 12.69
582. 1718 7.55697 12.7306 12.69; 1719 7.22456 12.3574 12.69
583. 1720 7.53485 11.935 12.69; 1721 7.42596 13.7883 12.69
584. 1722 7.55697 11.1394 12.69; 1723 6.36459 1.95431 12.69
585. 1724 6.919 1.96393 12.69; 1725 7.39868 22.1161 12.69
586. 1726 7.0081 22.1325 12.69; 1727 6.54247 15.3297 12.69
587. 1728 6.20023 15.6018 12.69; 1729 5.90667 15.3173 12.69
588. 1730 6.25205 14.945 12.69; 1731 6.43158 16.0643 12.69
589. 1732 6.88315 15.7417 12.69; 1733 7.00867 16.1128 12.69
590. 1734 7.55671 5.1198 12.69; 1735 7.55875 5.91537 12.69
591. 1736 7.22979 5.49053 12.69; 1737 5.50741 2.46897 12.69
592. 1738 5.8126 2.95815 12.69; 1739 5.79266 1.98766 12.69
593. 1740 7.44777 1.95454 12.69; 1741 7.17001 2.45324 12.69
594. 1742 7.01878 28.8229 12.69; 1743 5.81646 31.8945 12.69
595. 1744 5.5322 32.2608 12.69; 1745 5.90667 9.2973 12.69
596. 1746 5.53414 9.66984 12.69; 1747 5.56625 8.925 12.69
597. 1748 7.39884 19.1061 12.69; 1749 7.55697 18.7506 12.69
598. 1750 6.88315 23.1783 12.69; 1751 7.01878 22.8029 12.69

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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

599. 1752 7.65288 35.277 12.69; 1753 7.45442 34.9082 12.69
600. 1754 7.55697 14.1494 12.69; 1755 7.55105 14.945 12.69
601. 1756 7.23112 14.5184 12.69; 1757 6.88315 17.1583 12.69
602. 1758 6.43251 16.8311 12.69; 1759 5.48252 35.2768 12.69
603. 1760 7.01878 7.75286 12.69; 1761 7.42596 7.76831 12.69
604. 1762 7.55697 15.7486 12.69; 1763 7.23112 15.3716 12.69
605. 1764 6.20023 17.2082 12.69; 1765 7.55697 17.1594 12.69
606. 1766 6.20023 27.7318 12.69; 1767 7.23112 26.5584 12.69
607. 1768 5.56625 11.935 12.69; 1769 5.90662 12.308 12.69
608. 1770 5.53408 12.6885 12.69; 1771 6.88315 21.7617 12.69
609. 1772 6.52492 21.3497 12.69; 1773 6.86279 20.965 12.69
610. 1774 7.55105 17.955 12.69; 1775 7.23112 17.5284 12.69
611. 1776 7.23112 23.5484 12.69; 1777 7.55105 23.975 12.69
612. 1778 7.55697 24.7706 12.69; 1779 5.81795 25.0858 12.69
613. 1780 5.56625 5.915 12.69; 1781 5.90701 6.2866 12.69
614. 1782 6.88315 9.72171 12.69; 1783 6.54247 9.30965 12.69
615. 1784 6.89684 8.925 12.69; 1785 7.23112 9.35156 12.69
616. 1786 6.20023 8.1782 12.69; 1787 6.54247 8.54035 12.69
617. 1788 6.25205 8.925 12.69; 1789 5.90667 8.5527 12.69; 1790 6.4315 10.8108 12.69
618. 1791 7.01818 10.763 12.69; 1792 6.52492 12.3197 12.69
619. 1793 6.20018 12.6825 12.69; 1794 6.23419 11.935 12.69
620. 1795 6.43069 13.0546 12.69; 1796 5.81789 13.0463 12.69
621. 1797 6.52731 32.6205 12.69; 1798 7.42571 31.8485 12.69
622. 1799 6.61293 0.776507 12.69; 1800 6.95141 1.15952 12.69
623. 1801 5.56625 20.965 12.69; 1802 5.90662 21.338 12.69
624. 1803 5.53409 21.7105 12.69; 1804 5.81653 20.8849 12.69
625. 1805 5.5322 20.2205 12.69; 1806 7.4257 19.8085 12.69
626. 1807 7.55697 20.1694 12.69; 1808 5.53414 18.6998 12.69
627. 1809 5.81795 19.0658 12.69; 1810 6.52492 20.5803 12.69
628. 1811 6.23419 20.965 12.69; 1812 5.90662 20.592 12.69
629. 1813 5.81795 10.0359 12.69; 1814 6.88315 29.1983 12.69
630. 1815 7.55697 30.7986 12.69; 1816 5.90667 30.3673 12.69
631. 1817 5.53414 30.7398 12.69; 1818 5.5322 11.1985 12.69
632. 1819 5.90662 11.562 12.69; 1820 6.88315 8.12829 12.69
633. 1821 6.43251 7.80186 12.69; 1822 5.56625 17.955 12.69
634. 1823 5.90667 18.3273 12.69; 1824 6.20486 5.16682 12.69
635. 1825 6.54847 5.53021 12.69; 1826 6.25333 5.91448 12.69
636. 1827 5.90753 5.5416 12.69; 1828 6.43158 19.0743 12.69
637. 1829 6.88315 18.7517 12.69; 1830 7.00867 19.1228 12.69
638. 1831 5.56625 14.945 12.69; 1832 6.54583 6.29546 12.69
639. 1833 6.20264 6.65748 12.69; 1834 7.17861 3.46515 12.69
640. 1835 6.92017 3.94773 12.69; 1836 7.39884 18.0762 12.69
641. 1837 7.55697 9.72061 12.69; 1838 7.00867 10.0928 12.69
642. 1839 6.54247 18.3397 12.69; 1840 6.89684 17.955 12.69
643. 1841 7.23112 18.3816 12.69; 1842 7.4257 18.7785 12.69
644. 1843 5.81789 22.0763 12.69; 1844 7.01818 19.793 12.69
645. 1845 6.88315 20.1683 12.69; 1846 7.22456 20.5426 12.69
646. 1847 5.81795 31.1059 12.69; 1848 6.43158 31.1143 12.69
647. 1849 7.17424 35.2963 12.69; 1850 7.46655 35.6753 12.69
648. 1851 6.93038 35.6748 12.69; 1852 5.81646 10.8244 12.69
649. 1853 7.39884 16.0962 12.69; 1854 6.20018 21.7125 12.69
650. 1855 6.43069 22.0846 12.69; 1856 7.39884 28.1362 12.69
651. 1857 7.00867 28.1528 12.69; 1858 6.20023 9.6718 12.69
652. 1859 6.43158 10.0443 12.69; 1860 6.43251 25.8611 12.69
653. 1861 6.88315 26.1883 12.69; 1862 7.05371 0.39835 12.69
654. 1863 6.20023 24.7218 12.69; 1864 6.25205 23.975 12.69

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

655. 1865 6.54247 23.5983 12.69; 1866 6.89684 14.945 12.69
656. 1867 6.43251 7.0323 12.69; 1868 6.88521 6.70802 12.69
657. 1869 6.54247 14.5683 12.69; 1870 6.43158 28.1043 12.69
658. 1871 7.23459 6.34014 12.69; 1872 6.20023 18.7018 12.69
659. 1873 6.89781 5.91485 12.69; 1874 6.19936 33.7537 12.69
660. 1875 6.20018 32.2576 12.69; 1876 6.23662 33.0051 12.69
661. 1877 5.90662 32.6321 12.69; 1878 6.25205 17.955 12.69
662. 1879 6.43158 25.0943 12.69; 1880 6.54247 17.5703 12.69
663. 1881 6.20023 14.1982 12.69; 1882 5.90667 14.5727 12.69
664. 1883 6.20018 11.1875 12.69; 1884 6.20023 30.7418 12.69
665. 1885 5.90667 17.5827 12.69; 1886 6.88315 12.7317 12.69
666. 1887 5.90667 23.6027 12.69; 1888 6.43251 28.8711 12.69
667. 1889 6.0952 2.45527 12.69; 1890 5.63111 0.389104 12.69
668. 1891 6.64049 34.9174 12.69; 1892 5.48514 3.92617 12.69
669. 1893 6.74375 31.869 12.69; 1894 7.21819 25.2471 12.69
670. 1895 7.64184 7.05625 12.69; 1896 5.50066 13.8301 12.69
671. 1897 6.06963 34.9151 12.69; 1898 5.50066 7.81013 12.69
672. 1899 5.58485 28.1022 12.69; 1900 7.54774 20.593 12.69
673. 1901 5.50111 4.79984 12.69; 1902 6.74605 4.78263 12.69
674. 1903 7.21808 13.2071 12.69; 1904 6.12848 19.8427 12.69
675. 1905 7.21827 7.18596 12.69; 1906 7.54774 8.52299 12.69
676. 1907 5.58485 16.0622 12.69; 1908 6.65261 2.95678 12.69
677. 1909 6.06913 1.28699 12.69; 1910 7.54508 32.6059 12.69
678. 1911 6.87627 33.4082 12.69; 1912 5.54927 26.6117 12.69
679. 1913 5.54927 24.3483 12.69; 1914 6.87583 3.94654 12.69
680. 1915 7.64533 1.12182 12.69; 1916 7.55466 27.3836 12.69
681. 1917 6.22535 29.6191 12.69; 1918 6.89136 27.3879 12.69
682. 1919 5.50066 25.8701 12.69; 1920 5.54927 27.3583 12.69
683. 1921 6.0693 35.6653 12.69; 1922 7.64075 2.9579 12.69
684. 1923 7.67145 3.96463 12.69; 1924 6.89136 24.3779 12.69
685. 1925 5.54927 29.6217 12.69; 1926 7.54509 33.4041 12.69
686. 1927 7.23254 25.7052 12.69; 1928 7.64182 34.1461 12.69
687. 1929 7.65359 25.8476 12.69; 1930 5.54918 33.3787 12.69
688. 1931 5.50476 34.1226 12.69; 1932 6.22535 26.6091 12.69
689. 1933 6.744 13.8091 12.69; 1934 5.50503 7.03182 12.69
690. 1935 6.12851 22.853 12.69; 1936 5.50066 22.8601 12.69
691. 1937 7.54482 21.364 12.69; 1938 7.65359 22.8376 12.69
692. 1939 6.73964 34.1337 12.69; 1940 7.23254 16.6752 12.69
693. 1941 5.50066 16.8401 12.69; 1942 7.23299 4.63711 12.69
694. 1943 6.89136 30.3979 12.69; 1944 7.65359 28.8576 12.69
695. 1945 7.21819 31.2671 12.69; 1946 6.87518 11.5325 12.69
696. 1947 7.54482 12.334 12.69; 1948 7.23254 13.6652 12.69
697. 1949 7.54482 11.536 12.69; 1950 6.64753 1.94679 12.69
698. 1951 7.21808 22.2371 12.69; 1952 6.22535 15.3209 12.69
699. 1953 6.73999 16.073 12.69; 1954 7.65394 4.77787 12.69
700. 1955 7.5497 5.51495 12.69; 1956 5.5013 2.95658 12.69
701. 1957 5.49127 1.98541 12.69; 1958 7.19965 1.95438 12.69
702. 1959 7.23254 28.7152 12.69; 1960 5.50059 31.8898 12.69
703. 1961 5.54927 9.29835 12.69; 1962 7.64186 19.0962 12.69
704. 1963 6.744 22.8391 12.69; 1964 7.68027 34.9002 12.69
705. 1965 7.65359 13.8076 12.69; 1966 7.54774 14.543 12.69
706. 1967 6.744 16.8191 12.69; 1968 5.47942 34.8998 12.69
707. 1969 7.23254 7.6452 12.69; 1970 7.23254 22.6952 12.69
708. 1971 7.55466 15.3436 12.69; 1972 6.12851 16.833 12.69
709. 1973 6.12971 16.0665 12.69; 1974 7.65359 16.8176 12.69
710. 1975 6.22535 27.3609 12.69; 1976 7.54774 26.583 12.69

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841289154

711. 1977 5.54924 12.3887 12.69; 1978 6.8752 21.3675 12.69
712. 1979 7.64182 22.1061 12.69; 1980 7.54774 17.553 12.69
713. 1981 7.54774 23.573 12.69; 1982 7.64186 25.1162 12.69
714. 1983 5.50485 25.0922 12.69; 1984 5.54943 6.288 12.69
715. 1985 6.89136 9.32786 12.69; 1986 6.22535 8.54906 12.69
716. 1987 6.74374 18.799 12.69; 1988 6.21648 12.3113 12.69
717. 1989 6.12954 13.0572 12.69; 1990 6.87661 32.6025 12.69
718. 1991 7.23232 31.7253 12.69; 1992 6.61125 1.12704 12.69
719. 1993 5.54924 21.3387 12.69; 1994 5.50066 28.8801 12.69
720. 1995 5.50059 19.8498 12.69; 1996 7.6535 19.8278 12.69
721. 1997 5.50485 19.8722 12.69; 1998 6.21648 20.5887 12.69
722. 1999 5.50485 10.0422 12.69; 2000 6.89135 29.5922 12.69
723. 2001 7.64186 31.1362 12.69; 2002 7.55466 30.3936 12.69
724. 2003 5.54927 30.3683 12.69; 2004 7.21129 1.2782 12.69
725. 2005 5.54924 11.5613 12.69; 2006 5.53157 1.10629 12.69
726. 2007 7.65359 7.78762 12.69; 2008 6.744 7.78913 12.69
727. 2009 5.54926 18.3283 12.69; 2010 5.50483 13.0525 12.69
728. 2011 6.22855 5.53828 12.69; 2012 6.73999 19.083 12.69
729. 2013 5.54927 15.3183 12.69; 2014 6.2272 6.2885 12.69
730. 2015 6.13155 4.79213 12.69; 2016 7.20212 3.95826 12.69
731. 2017 7.64186 10.0662 12.69; 2018 7.21819 10.1971 12.69
732. 2019 6.89136 18.3579 12.69; 2020 7.23232 10.6553 12.69
733. 2021 5.50483 21.0825 12.69; 2022 7.21819 19.2271 12.69
734. 2023 7.23232 19.6853 12.69; 2024 6.87518 28.5625 12.69
735. 2025 5.50485 31.1122 12.69; 2026 6.73999 31.123 12.69
736. 2027 7.20551 35.6742 12.69; 2028 7.21808 34.2772 12.69
737. 2029 5.50059 10.8198 12.69; 2030 7.21819 16.2171 12.69
738. 2031 7.64186 16.0862 12.69; 2032 6.12954 22.0872 12.69
739. 2033 7.21819 28.2571 12.69; 2034 7.64186 28.1262 12.69
740. 2035 7.19861 34.9014 12.69; 2036 6.64116 35.6654 12.69
741. 2037 6.12971 10.0465 12.69; 2038 7.55466 9.32357 12.69
742. 2039 6.73999 10.053 12.69; 2040 7.55466 18.3536 12.69
743. 2041 6.12851 25.863 12.69; 2042 6.744 25.8491 12.69
744. 2043 7.46695 0.377702 12.69; 2044 6.22535 24.3589 12.69
745. 2045 7.55466 24.3736 12.69; 2046 6.89135 23.5722 12.69
746. 2047 7.66885 1.94292 12.69; 2048 5.4791 35.6497 12.69
747. 2049 6.89136 15.3479 12.69; 2050 6.74016 7.04101 12.69
748. 2051 7.6535 10.7978 12.69; 2052 6.89135 14.5422 12.69
749. 2053 7.6535 31.8678 12.69; 2054 6.12971 28.1065 12.69
750. 2055 6.89135 26.5822 12.69; 2056 7.55449 6.31374 12.69
751. 2057 6.12971 19.0765 12.69; 2058 7.64182 13.0761 12.69
752. 2059 6.89311 5.51435 12.69; 2060 6.21648 21.3413 12.69
753. 2061 6.22535 9.30894 12.69; 2062 7.54482 20.566 12.69
754. 2063 6.12911 34.1277 12.69; 2064 6.21768 32.6288 12.69
755. 2065 6.89135 8.52216 12.69; 2066 6.22535 18.3309 12.69
756. 2067 5.54927 8.55165 12.69; 2068 6.74374 19.829 12.69
757. 2069 6.12971 25.0965 12.69; 2070 6.89134 17.5522 12.69
758. 2071 6.22535 14.5691 12.69; 2072 7.67368 35.6629 12.69
759. 2073 6.13102 7.03458 12.69; 2074 6.21648 11.5587 12.69
760. 2075 5.54924 32.6313 12.69; 2076 6.12971 31.1165 12.69
761. 2077 6.22535 30.3709 12.69; 2078 6.6471 3.95035 12.69
762. 2079 5.54926 17.5817 12.69; 2080 6.8752 12.3375 12.69
763. 2081 6.21727 33.3819 12.69; 2082 5.54924 28.5913 12.69
764. 2083 6.22535 23.5991 12.69; 2084 5.54927 23.6017 12.69
765. 2085 5.54974 5.54115 12.69; 2086 6.56777 0.398929 12.69
766. 2087 6.12848 10.8127 12.69; 2088 6.744 28.8591 12.69

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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

767. 2089 6.08144 1.96557 12.69; 2090 5.54917 14.5717 12.69
768. 2091 6.12851 13.823 12.69; 2092 6.73972 22.0931 12.69
769. 2093 6.12851 7.803 12.69; 2094 6.12851 28.873 12.69
770. 2095 6.73972 13.0631 12.69; 2096 6.73999 28.113 12.69
771. 2097 6.22535 17.5701 12.69; 2098 6.89313 6.31582 12.69
772. 2099 6.12848 31.8827 12.69; 2100 6.73999 25.103 12.69
773. 2101 7.16875 2.95802 12.69; 2102 6.09875 2.95765 12.69
774. 2103 5.19 36.81 13.0683; 2104 5.19 36.01 13.4467; 2105 5.19 36.81 13.825
775. 2106 5.19 36.01 14.2033; 2107 5.19 36.01 14.5817; 2108 5.19 35.635 14.96
776. 2109 5.19 35.26 14.96; 2110 5.19 34.885 14.96; 2111 5.19 34.1337 14.96
777. 2112 5.19 33.7575 14.96; 2113 5.19 33.3812 14.96; 2114 5.19 33.005 14.96
778. 2115 5.19 32.6287 14.96; 2116 5.19 32.2525 14.96; 2117 5.19 31.8762 14.96
779. 2118 5.19 31.1238 14.96; 2119 5.19 30.7475 14.96; 2120 5.19 30.3713 14.96
780. 2121 5.19 29.995 14.96; 2122 5.19 29.6187 14.96; 2123 5.19 29.2425 14.96
781. 2124 5.19 28.8662 14.96; 2125 5.19 28.1138 14.96; 2126 5.19 27.7375 14.96
782. 2127 5.19 27.3612 14.96; 2128 5.19 26.985 14.96; 2129 5.19 26.6087 14.96
783. 2130 5.19 26.2325 14.96; 2131 5.19 25.8562 14.96; 2132 5.19 25.1038 14.96
784. 2133 5.19 24.7275 14.96; 2134 5.19 24.3512 14.96; 2135 5.19 23.975 14.96
785. 2136 5.19 23.5987 14.96; 2137 5.19 23.2225 14.96; 2138 5.19 22.8462 14.96
786. 2139 5.19 22.0938 14.96; 2140 5.19 21.7175 14.96; 2141 5.19 21.3412 14.96
787. 2142 5.19 20.965 14.96; 2143 5.19 20.5887 14.96; 2144 5.19 20.2125 14.96
788. 2145 5.19 19.8362 14.96; 2146 5.19 19.0837 14.96; 2147 5.19 18.7075 14.96
789. 2148 5.19 18.3312 14.96; 2149 5.19 17.955 14.96; 2150 5.19 17.5788 14.96
790. 2151 5.19 17.2025 14.96; 2152 5.19 16.8263 14.96; 2153 5.19 16.8738 14.96
791. 2154 5.19 15.6975 14.96; 2155 5.19 15.3212 14.96; 2156 5.19 14.945 14.96
792. 2157 5.19 14.5688 14.96; 2158 5.19 14.1925 14.96; 2159 5.19 13.8162 14.96
793. 2160 5.19 13.0637 14.96; 2161 5.19 12.6875 14.96; 2162 5.19 12.3112 14.96
794. 2163 5.19 11.935 14.96; 2164 5.19 11.5588 14.96; 2165 5.19 11.1825 14.96
795. 2166 5.19 10.8063 14.96; 2167 5.19 10.0538 14.96; 2168 5.19 9.6775 14.96
796. 2169 5.19 9.30125 14.96; 2170 5.19 8.925 14.96; 2171 5.19 8.54875 14.96
797. 2172 5.19 8.1725 14.96; 2173 5.19 7.79625 14.96; 2174 5.19 7.04375 14.96
798. 2175 5.19 6.6675 14.96; 2176 5.19 6.29125 14.96; 2177 5.19 5.915 14.96
799. 2178 5.19 5.53875 14.96; 2179 5.19 5.1625 14.96; 2180 5.19 4.78625 14.96
800. 2181 5.19 3.925 14.96; 2182 5.19 3.44 14.96; 2183 5.19 2.955 14.96
801. 2184 5.19 2.47 14.96; 2185 5.19 1.985 14.96; 2186 5.19 1.125 14.96
802. 2187 5.19 0.75 14.96; 2188 5.19 0.375 14.96; 2189 5.19 0 14.5817
803. 2190 5.19 0 14.2033; 2191 5.19 0 13.825; 2192 5.19 0 13.4467
804. 2193 5.19 0 13.0683; 2194 5.19 4.41 14.5817; 2195 5.19 4.41 14.2033
805. 2196 5.19 4.41 13.825; 2197 5.19 4.41 13.4467; 2198 5.19 4.41 13.0683
806. 2199 5.19 7.42 14.5817; 2200 5.19 7.42 14.2033; 2201 5.19 7.42 13.825
807. 2202 5.19 7.42 13.4467; 2203 5.19 7.42 13.0683; 2204 5.19 10.43 14.5817
808. 2205 5.19 10.43 14.2033; 2206 5.19 10.43 13.825; 2207 5.19 10.43 13.4467
809. 2208 5.19 10.43 13.0683; 2209 5.19 13.44 14.5817; 2210 5.19 13.44 14.2033
810. 2211 5.19 13.44 13.825; 2212 5.19 13.44 13.4467; 2213 5.19 13.44 13.0683
811. 2214 5.19 16.45 14.5817; 2215 5.19 16.45 14.2033; 2216 5.19 16.45 13.825
812. 2217 5.19 16.45 13.4467; 2218 5.19 16.45 13.0683; 2219 5.19 19.46 14.5817
813. 2220 5.19 19.46 14.2033; 2221 5.19 19.46 13.825; 2222 5.19 19.46 13.4467
814. 2223 5.19 19.46 13.0683; 2224 5.19 22.47 14.5817; 2225 5.19 22.47 14.2033
815. 2226 5.19 22.47 13.825; 2227 5.19 22.47 13.4467; 2228 5.19 22.47 13.0683
816. 2229 5.19 25.48 14.5817; 2230 5.19 25.48 14.2033; 2231 5.19 25.48 13.825
817. 2232 5.19 25.48 13.4467; 2233 5.19 25.48 13.0683; 2234 5.19 28.49 14.5817
818. 2235 5.19 28.49 14.2033; 2236 5.19 28.49 13.825; 2237 5.19 28.49 13.4467
819. 2238 5.19 28.49 13.0683; 2239 5.19 31.5 14.5817; 2240 5.19 31.5 14.2033
820. 2241 5.19 31.5 13.825; 2242 5.19 31.5 13.4467; 2243 5.19 31.5 13.0683
821. 2244 5.19 34.51 14.5817; 2245 5.19 34.51 14.2033; 2246 5.19 34.51 13.825
822. 2247 5.19 34.51 13.4467; 2248 5.19 34.51 13.0683; 2249 5.19 35.2598 14.2033

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

823. 2250 5.19 35.2598 13.4463; 2251 5.19 33.757 14.2039; 2252 5.19 33.005 14.2032
824. 2253 5.19 32.2529 14.2032; 2254 5.19 33.7571 13.4467; 2255 5.19 33.005 13.4464
825. 2256 5.19 30.747 14.2039; 2257 5.19 32.2528 13.4464; 2258 5.19 29.9947 14.2041
826. 2259 5.19 29.2428 14.2039; 2260 5.19 30.747 13.4463; 2261 5.19 29.9948 13.4466
827. 2262 5.19 27.737 14.2037; 2263 5.19 29.2428 13.4471; 2264 5.19 26.9848 14.2034
828. 2265 5.19 26.2327 14.2036; 2266 5.19 27.737 13.4461; 2267 5.19 26.9847 13.4459
829. 2268 5.19 24.727 14.2037; 2269 5.19 26.2327 13.4467; 2270 5.19 23.9749 14.2032
830. 2271 5.19 23.2228 14.2033; 2272 5.19 24.7271 13.4466; 2273 5.19 23.975 13.4462
831. 2274 5.19 21.7171 14.2039; 2275 5.19 23.2229 13.4464; 2276 5.19 20.965 14.2039
832. 2277 5.19 20.2129 14.2036; 2278 5.19 21.717 13.4465; 2279 5.19 20.9649 13.447
833. 2280 5.19 18.7072 14.2032; 2281 5.19 20.2128 13.4468; 2282 5.19 17.955 14.203
834. 2283 5.19 17.203 14.2035; 2284 5.19 18.7071 13.4464; 2285 5.19 17.955 13.4461
835. 2286 5.19 15.697 14.2038; 2287 5.19 17.2029 13.4461; 2288 5.19 14.945 14.2041
836. 2289 5.19 14.193 14.2038; 2290 5.19 15.697 13.4462; 2291 5.19 14.9449 13.4457
837. 2292 5.19 12.6872 14.2036; 2293 5.19 14.193 13.4464; 2294 5.19 11.9351 14.2038
838. 2295 5.19 11.1829 14.2035; 2296 5.19 12.6871 13.4468
839. 2297 5.19 11.9349 13.4472; 2298 5.19 9.67697 14.2039
840. 2299 5.19 11.1828 13.4468; 2300 5.19 8.92473 14.2034
841. 2301 5.19 8.17275 14.2041; 2302 5.19 9.67698 13.4464
842. 2303 5.19 8.92476 13.4462; 2304 5.19 6.66721 14.2027
843. 2305 5.19 8.17271 13.4468; 2306 5.19 5.91511 14.2025
844. 2307 5.19 5.16294 14.2026; 2308 5.19 6.66729 13.4458
845. 2309 5.19 5.91526 13.4455; 2310 5.19 3.46184 14.1952
846. 2311 5.19 5.16295 13.4459; 2312 5.19 2.48537 14.1921; 2313 5.19 1.5587 14.1846
847. 2314 5.19 0.759036 14.1946; 2315 5.19 0.751929 13.4377
848. 2316 5.19 1.55528 13.4296; 2317 5.19 3.464 13.4417; 2318 5.19 2.48462 13.4358
849. 2319 5.19 35.6348 14.2034; 2320 5.19 35.2598 14.582; 2321 5.19 34.8849 14.2034
850. 2322 5.19 20.2127 14.582; 2323 5.19 20.965 14.582; 2324 5.19 20.5891 14.2038
851. 2325 5.19 11.1826 13.0683; 2326 5.19 11.5589 13.4469
852. 2327 5.19 11.9349 13.0685; 2328 5.19 13.8167 13.4466
853. 2329 5.19 14.1927 13.0679; 2330 5.19 5.16302 13.8243
854. 2331 5.19 5.53913 14.2026; 2332 5.19 5.91525 13.8239
855. 2333 5.19 5.53928 13.4455; 2334 5.19 2.00868 13.4319
856. 2335 5.19 2.47769 13.0614; 2336 5.19 1.52385 13.0559
857. 2337 5.19 34.8849 13.4464; 2338 5.19 35.2599 13.0678
858. 2339 5.19 35.6349 13.4465; 2340 5.19 35.2597 13.8248; 2341 5.19 18.7073 13.068
859. 2342 5.19 17.955 13.068; 2343 5.19 18.3306 13.4462; 2344 5.19 8.92484 13.0681
860. 2345 5.19 9.30087 13.4463; 2346 5.19 9.67728 13.0681
861. 2347 5.19 20.5889 13.4469; 2348 5.19 20.9649 13.0685
862. 2349 5.19 20.2126 13.0683; 2350 5.19 22.0934 14.2036
863. 2351 5.19 21.7173 14.5822; 2352 5.19 24.7273 13.0682; 2353 5.19 23.975 13.0681
864. 2354 5.19 24.351 13.4464; 2355 5.19 16.8732 14.2035; 2356 5.19 15.6973 14.5821
865. 2357 5.19 15.6973 13.0678; 2358 5.19 14.9449 13.0677; 2359 5.19 15.3209 13.446
866. 2360 5.19 25.1034 14.2036; 2361 5.19 24.7272 14.5821
867. 2362 5.19 34.1333 13.4467; 2363 5.19 33.757 13.8253; 2364 5.19 34.1333 14.2037
868. 2365 5.19 32.2527 14.5819; 2366 5.19 31.8766 14.2033
869. 2367 5.19 21.7172 13.0682; 2368 5.19 22.0932 13.4465
870. 2369 5.19 24.3508 14.2035; 2370 5.19 23.9749 14.5816
871. 2371 5.19 26.9849 14.5818; 2372 5.19 26.6089 14.2035; 2373 5.19 26.2326 14.582
872. 2374 5.19 5.91515 13.0677; 2375 5.19 6.29123 13.4456
873. 2376 5.19 6.66744 13.0678; 2377 5.19 7.04347 14.2029
874. 2378 5.19 6.66729 14.5814; 2379 5.19 29.2426 14.5821
875. 2380 5.19 28.8665 14.2036; 2381 5.19 33.7573 13.0681; 2382 5.19 27.7372 14.582
876. 2383 5.19 27.3609 14.2035; 2384 5.19 35.8566 14.2034
877. 2385 5.19 28.1133 13.4464; 2386 5.19 27.7369 13.8249
878. 2387 5.19 28.1133 14.2036; 2388 5.19 23.599 14.203; 2389 5.19 23.2227 14.5818

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: 9841259154

879. 2390 5.19 10.8067 13.4467; 2391 5.19 8.17262 14.5823; 2392 5.19 7.7965 14.2037
880. 2393 5.19 19.8367 13.4467; 2394 5.19 22.8467 14.2033
881. 2395 5.19 22.8466 13.4466; 2396 5.19 23.2227 13.0681
882. 2397 5.19 11.1827 14.5819; 2398 5.19 10.8067 14.2034
883. 2399 5.19 11.1828 13.8252; 2400 5.19 33.7572 14.5821
884. 2401 5.19 33.3809 14.2035; 2402 5.19 33.005 14.5816; 2403 5.19 13.0633 14.2035
885. 2404 5.19 12.6874 14.5819; 2405 5.19 19.0833 14.2033
886. 2406 5.19 19.0833 13.4466; 2407 5.19 18.7072 13.8249
887. 2408 5.19 16.8266 13.4464; 2409 5.19 17.2027 13.0678
888. 2410 5.19 8.92486 14.5817; 2411 5.19 8.54888 14.2038
889. 2412 5.19 2.48762 13.8126; 2413 5.19 1.56577 13.8067
890. 2414 5.19 2.01066 14.1885; 2415 5.19 16.0734 13.4464
891. 2416 5.19 15.6969 13.8249; 2417 5.19 7.04343 13.4462
892. 2418 5.19 6.66726 13.8241; 2419 5.19 5.1628 14.5814; 2420 5.19 5.91511 14.5813
893. 2421 5.19 0.372098 13.4418; 2422 5.19 0.750128 13.062
894. 2423 5.19 19.8367 14.2034; 2424 5.19 30.7472 13.0679
895. 2425 5.19 31.1232 13.4465; 2426 5.19 32.2528 13.8247
896. 2427 5.19 31.8767 13.4465; 2428 5.19 31.1234 14.2036
897. 2429 5.19 30.7473 14.5821; 2430 5.19 28.8665 13.4469
898. 2431 5.19 29.2427 13.0684; 2432 5.19 12.6873 13.0682; 2433 5.19 12.3109 13.447
899. 2434 5.19 17.2028 14.5818; 2435 5.19 16.8268 14.2035; 2436 5.19 33.005 13.0681
900. 2437 5.19 33.381 13.4465; 2438 5.19 10.0533 13.4466
901. 2439 5.19 0.755389 14.5767; 2440 5.19 0.377405 14.1; 2441 5.19 3.94625 14.1987
902. 2442 5.19 3.45281 14.5764; 2443 5.19 27.3608 13.4461
903. 2444 5.19 26.9848 13.8247; 2445 5.19 11.935 14.5819; 2446 5.19 11.5591 14.2037
904. 2447 5.19 30.3707 14.2042; 2448 5.19 29.9949 14.5821
905. 2449 5.19 29.9949 13.0683; 2450 5.19 30.3707 13.4463; 2451 5.19 1.14504 13.434
906. 2452 5.19 0.75839 13.8169; 2453 5.19 1.15002 14.189; 2454 5.19 18.7073 14.5817
907. 2455 5.19 18.3311 14.2031; 2456 5.19 17.955 14.5815; 2457 5.19 27.7372 13.0678
908. 2458 5.19 14.945 14.5822; 2459 5.19 14.5691 14.2039; 2460 5.19 14.1928 14.5822
909. 2461 5.19 24.7271 13.8253; 2462 5.19 23.975 13.8247; 2463 5.19 5.16268 13.0677
910. 2464 5.19 4.78669 13.4463; 2465 5.19 10.0533 14.2036
911. 2466 5.19 9.67723 14.5823; 2467 5.19 21.7171 13.8251; 2468 5.19 11.935 13.8255
912. 2469 5.19 12.311 14.2037; 2470 5.19 1.52914 14.5698; 2471 5.19 8.17258 13.0684
913. 2472 5.19 8.54874 13.4465; 2473 5.19 7.79658 13.4468
914. 2474 5.19 29.2427 13.8256; 2475 5.19 29.6188 14.204; 2476 5.19 32.2526 13.0681
915. 2477 5.19 32.629 13.4463; 2478 5.19 26.9848 13.0679; 2479 5.19 15.3209 14.2039
916. 2480 5.19 17.5792 14.2032; 2481 5.19 25.1033 13.4467
917. 2482 5.19 25.8566 13.4468; 2483 5.19 26.2326 13.0683
918. 2484 5.19 21.3408 13.4468; 2485 5.19 14.569 13.446; 2486 5.19 2.4784 14.5745
919. 2487 5.19 8.17275 13.8254; 2488 5.19 3.45396 13.0658; 2489 5.19 3.9503 13.4444
920. 2490 5.19 4.78665 14.2029; 2491 5.19 21.3411 14.2039
921. 2492 5.19 13.8166 14.2036; 2493 5.19 14.1931 13.8251
922. 2494 5.19 26.6887 13.4464; 2495 5.19 20.2128 13.8251
923. 2496 5.19 29.6188 13.4469; 2497 5.19 32.6291 14.2031
924. 2498 5.19 6.29113 14.2025; 2499 5.19 23.5991 13.4463
925. 2500 5.19 17.2029 13.8249; 2501 5.19 14.945 13.8249; 2502 5.19 9.67696 13.8251
926. 2503 5.19 17.955 13.8246; 2504 5.19 13.0634 13.4467; 2505 5.19 26.2328 13.8251
927. 2506 5.19 17.5789 13.4461; 2507 5.19 20.965 13.8254; 2508 5.19 12.6872 13.8254
928. 2509 5.19 9.30081 14.2035; 2510 5.19 30.747 13.825; 2511 5.19 23.2228 13.825
929. 2512 5.19 2.97171 13.439; 2513 5.19 2.97105 14.1928; 2514 5.19 3.46518 13.8179
930. 2515 5.19 8.92476 13.8248; 2516 5.19 33.005 13.8247; 2517 5.19 29.9948 13.8255
931. 2518 5.19 35.6348 14.5818; 2519 5.19 34.8849 14.5819; 2520 5.19 20.5889 14.582
932. 2521 5.19 11.5588 13.0684; 2522 5.19 13.8165 13.0682
933. 2523 5.19 5.53925 13.8239; 2524 5.19 1.99524 13.0575; 2525 5.19 34.885 13.068
934. 2526 5.19 35.6348 13.8248; 2527 5.19 18.3311 13.068; 2528 5.19 9.30105 13.0681

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.

935. 2529 5.19 20.5889 13.0685; 2530 5.19 22.0936 14.582; 2531 5.19 24.3511 13.0682
936. 2532 5.19 16.0735 14.5818; 2533 5.19 15.3211 13.0676
937. 2534 5.19 25.1035 14.5819; 2535 5.19 34.1333 13.8252
938. 2536 5.19 31.8765 14.5818; 2537 5.19 22.0935 13.0682; 2538 5.19 24.351 14.5818
939. 2539 5.19 26.6088 14.5819; 2540 5.19 6.29128 13.8677
940. 2541 5.19 7.04351 14.5815; 2542 5.19 28.8664 14.5818
941. 2543 5.19 34.1336 13.0683; 2544 5.19 27.361 14.582; 2545 5.19 25.8564 14.5818
942. 2546 5.19 28.1132 13.825; 2547 5.19 35.635 13.068; 2548 5.19 23.5989 14.5816
943. 2549 5.19 10.8065 13.0683; 2550 5.19 7.79637 14.582; 2551 5.19 19.8365 13.0683
944. 2552 5.19 22.8465 14.5817; 2553 5.19 22.8464 13.0682
945. 2554 5.19 10.8064 14.5818; 2555 5.19 10.8066 13.825; 2556 5.19 34.1335 14.5819
946. 2557 5.19 33.3811 14.5818; 2558 5.19 13.0636 14.5818; 2559 5.19 19.0834 13.825
947. 2560 5.19 16.8264 13.068; 2561 5.19 28.1135 14.5819; 2562 5.19 8.54884 14.5821
948. 2563 5.19 2.0145 13.8092; 2564 5.19 16.0732 13.8249; 2565 5.19 10.0836 13.0682
949. 2566 5.19 7.04347 13.8245; 2567 5.19 5.53896 14.5813; 2568 5.19 0.3733 13.0648
950. 2569 5.19 19.8364 14.5818; 2570 5.19 31.1235 13.0682
951. 2571 5.19 31.8766 13.8249; 2572 5.19 31.1236 14.5819
952. 2573 5.19 28.8665 13.0684; 2574 5.19 12.3111 13.0684
953. 2575 5.19 16.8265 14.5818; 2576 5.19 33.3811 13.0682
954. 2577 5.19 18.0535 13.0683; 2578 5.19 0.376949 14.5798
955. 2579 5.19 3.93713 14.5783; 2580 5.19 27.3608 13.8249
956. 2581 5.19 11.5589 14.5819; 2582 5.19 30.371 14.5822; 2583 5.19 30.371 13.0681
957. 2584 5.19 1.15299 13.8116; 2585 5.19 18.3311 14.5815
958. 2586 5.19 19.0835 14.5817; 2587 5.19 28.1135 13.0681; 2588 5.19 16.0736 13.068
959. 2589 5.19 14.5689 14.5823; 2590 5.19 24.3509 13.8249; 2591 5.19 7.04361 13.068
960. 2592 5.19 4.78645 13.068; 2593 5.19 18.0535 14.5819; 2594 5.19 22.0933 13.8251
961. 2595 5.19 11.559 13.8254; 2596 5.19 12.3112 14.5819; 2597 5.19 1.13779 14.5726
962. 2598 5.19 8.5487 13.0682; 2599 5.19 7.79649 13.0683; 2600 5.19 28.8665 13.8254
963. 2601 5.19 29.6187 14.5821; 2602 5.19 32.6288 13.0681
964. 2603 5.19 31.8764 13.0682; 2604 5.19 27.3609 13.0677
965. 2605 5.19 15.3211 14.5823; 2606 5.19 17.579 14.5817; 2607 5.19 25.1035 13.0683
966. 2608 5.19 25.8565 13.0683; 2609 5.19 21.341 13.0683; 2610 5.19 14.5689 13.0676
967. 2611 5.19 1.99991 14.572; 2612 5.19 7.79656 13.8253; 2613 5.19 3.94025 13.0684
968. 2614 5.19 4.78655 14.5815; 2615 5.19 21.3411 14.5821
969. 2616 5.19 13.8168 13.8251; 2617 5.19 26.6087 13.0681; 2618 5.19 19.8366 13.825
970. 2619 5.19 29.6188 13.0683; 2620 5.19 32.6289 14.5817; 2621 5.19 1.13311 13.06
971. 2622 5.19 13.8165 14.582; 2623 5.19 6.29117 14.5813; 2624 5.19 23.5989 13.0681
972. 2625 5.19 5.539 13.0676; 2626 5.19 16.8267 13.8249; 2627 5.19 15.3209 13.8249
973. 2628 5.19 10.0532 13.8251; 2629 5.19 18.331 13.8246; 2630 5.19 34.8849 13.8249
974. 2631 5.19 13.0635 13.0683; 2632 5.19 25.1033 13.8251
975. 2633 5.19 26.6089 13.8249; 2634 5.19 17.5789 13.0679
976. 2635 5.19 0.375251 13.8211; 2636 5.19 20.589 13.8254
977. 2637 5.19 4.78666 13.8246; 2638 5.19 21.341 13.8254; 2639 5.19 17.579 13.8246
978. 2640 5.19 13.0634 13.8252; 2641 5.19 9.30097 14.582; 2642 5.19 14.5691 13.8249
979. 2643 5.19 31.1232 13.825; 2644 5.19 22.8466 13.825; 2645 5.19 2.97382 13.8155
980. 2646 5.19 8.54882 13.8251; 2647 5.19 23.599 13.8247; 2648 5.19 9.30079 13.8248
981. 2649 5.19 32.629 13.8246; 2650 5.19 6.29123 13.8238; 2651 5.19 29.6189 13.8256
982. 2652 5.19 30.3708 13.8253; 2653 5.19 33.3809 13.825; 2654 5.19 25.8566 13.8251
983. 2655 5.19 2.96445 14.575; 2656 5.19 12.311 13.8254; 2657 5.19 3.9507 13.8208
984. 2658 5.19 2.96496 13.0645; 2659 5.63667 36.01 14.96; 2660 6.08333 36.01 14.96
985. 2661 6.53 36.01 14.96; 2662 6.97667 36.01 14.96; 2663 7.42333 36.01 14.96
986. 2664 7.87 35.635 14.96; 2665 7.87 35.26 14.96; 2666 7.87 34.885 14.96
987. 2667 7.87 34.1337 14.96; 2668 7.87 33.7575 14.96; 2669 7.87 33.3812 14.96
988. 2670 7.87 33.005 14.96; 2671 7.87 32.6287 14.96; 2672 7.87 32.2525 14.96
989. 2673 7.87 31.8762 14.96; 2674 7.87 31.1238 14.96; 2675 7.87 30.7475 14.96
990. 2676 7.87 30.3713 14.96; 2677 7.87 29.995 14.96; 2678 7.87 29.6187 14.96

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.

991. 2679 7.87 29.2425 14.96; 2680 7.87 28.8662 14.96; 2681 7.87 28.1138 14.96
992. 2682 7.87 27.7375 14.96; 2683 7.87 27.3612 14.96; 2684 7.87 26.985 14.96
993. 2685 7.87 26.6087 14.96; 2686 7.87 26.2325 14.96; 2687 7.87 25.8562 14.96
994. 2688 7.87 25.1038 14.96; 2689 7.87 24.7275 14.96; 2690 7.87 24.3512 14.96
995. 2691 7.87 23.975 14.96; 2692 7.87 23.5987 14.96; 2693 7.87 23.2225 14.96
996. 2694 7.87 22.8462 14.96; 2695 7.87 22.0938 14.96; 2696 7.87 21.7175 14.96
997. 2697 7.87 21.3412 14.96; 2698 7.87 20.965 14.96; 2699 7.87 20.5887 14.96
998. 2700 7.87 20.2125 14.96; 2701 7.87 19.8362 14.96; 2702 7.87 19.0837 14.96
999. 2703 7.87 18.7075 14.96; 2704 7.87 18.3312 14.96; 2705 7.87 17.955 14.96
1000. 2706 7.87 17.5788 14.96; 2707 7.87 17.2025 14.96; 2708 7.87 16.8263 14.96
1001. 2709 7.87 16.0738 14.96; 2710 7.87 15.6975 14.96; 2711 7.87 15.3212 14.96
1002. 2712 7.87 14.945 14.96; 2713 7.87 14.5688 14.96; 2714 7.87 14.1925 14.96
1003. 2715 7.87 13.8162 14.96; 2716 7.87 13.0637 14.96; 2717 7.87 12.6875 14.96
1004. 2718 7.87 12.3112 14.96; 2719 7.87 11.935 14.96; 2720 7.87 11.5588 14.96
1005. 2721 7.87 11.1825 14.96; 2722 7.87 10.8063 14.96; 2723 7.87 10.0538 14.96
1006. 2724 7.87 9.6775 14.96; 2725 7.87 9.30125 14.96; 2726 7.87 8.925 14.96
1007. 2727 7.87 8.54875 14.96; 2728 7.87 8.1725 14.96; 2729 7.87 7.79625 14.96
1008. 2730 7.87 7.04375 14.96; 2731 7.87 6.6675 14.96; 2732 7.87 6.29125 14.96
1009. 2733 7.87 5.915 14.96; 2734 7.87 5.53875 14.96; 2735 7.87 5.1625 14.96
1010. 2736 7.87 4.78625 14.96; 2737 7.87 3.925 14.96; 2738 7.87 3.44 14.96
1011. 2739 7.87 2.955 14.96; 2740 7.87 2.47 14.96; 2741 7.87 1.985 14.96
1012. 2742 7.87 1.125 14.96; 2743 7.87 0.75 14.96; 2744 7.87 0.375 14.96
1013. 2745 7.42333 0 14.96; 2746 6.97667 0 14.96; 2747 6.53 0 14.96
1014. 2748 6.08333 0 14.96; 2749 5.63667 0 14.96; 2750 5.63667 4.41 14.96
1015. 2751 6.08333 4.41 14.96; 2752 6.53 4.41 14.96; 2753 6.97667 4.41 14.96
1016. 2754 7.42333 4.41 14.96; 2755 5.63667 7.42 14.96; 2756 6.08333 7.42 14.96
1017. 2757 6.53 7.42 14.96; 2758 6.97667 7.42 14.96; 2759 7.42333 7.42 14.96
1018. 2760 5.63667 10.43 14.96; 2761 6.08333 10.43 14.96; 2762 6.53 10.43 14.96
1019. 2763 6.97667 10.43 14.96; 2764 7.42333 10.43 14.96; 2765 5.63667 13.44 14.96
1020. 2766 6.08333 13.44 14.96; 2767 6.53 13.44 14.96; 2768 6.97667 13.44 14.96
1021. 2769 7.42333 13.44 14.96; 2770 5.63667 16.45 14.96; 2771 6.08333 16.45 14.96
1022. 2772 6.53 16.45 14.96; 2773 6.97667 16.45 14.96; 2774 7.42333 16.45 14.96
1023. 2775 5.63667 19.46 14.96; 2776 6.08333 19.46 14.96; 2777 6.53 19.46 14.96
1024. 2778 6.97667 19.46 14.96; 2779 7.42333 19.46 14.96; 2780 5.63667 22.47 14.96
1025. 2781 6.08333 22.47 14.96; 2782 6.53 22.47 14.96; 2783 6.97667 22.47 14.96
1026. 2784 7.42333 22.47 14.96; 2785 5.63667 25.48 14.96; 2786 6.08333 25.48 14.96
1027. 2787 6.53 25.48 14.96; 2788 6.97667 25.48 14.96; 2789 7.42333 25.48 14.96
1028. 2790 5.63667 28.49 14.96; 2791 6.08333 28.49 14.96; 2792 6.53 28.49 14.96
1029. 2793 6.97667 28.49 14.96; 2794 7.42333 28.49 14.96; 2795 5.63667 31.5 14.96
1030. 2796 6.08333 31.5 14.96; 2797 6.53 31.5 14.96; 2798 6.97667 31.5 14.96
1031. 2799 7.42333 31.5 14.96; 2800 5.63667 34.51 14.96; 2801 6.08333 34.51 14.96
1032. 2802 6.53 34.51 14.96; 2803 6.97667 34.51 14.96; 2804 7.42333 34.51 14.96
1033. 2805 5.60833 1.5 14.96; 2806 6.02667 1.5 14.96; 2807 6.445 1.5 14.96
1034. 2808 6.86333 1.5 14.96; 2809 7.28167 1.5 14.96; 2810 7.785 1.5 14.96
1035. 2811 6.98538 35.2588 14.96; 2812 6.08169 35.255 14.96
1036. 2813 6.97609 33.7473 14.96; 2814 6.96886 33.0062 14.96
1037. 2815 6.97831 32.2634 14.96; 2816 6.07847 33.7467 14.96
1038. 2817 6.07708 33.003 14.96; 2818 6.98987 30.7352 14.96
1039. 2819 6.8719 32.2622 14.96; 2820 6.98711 29.9939 14.96
1040. 2821 6.98845 29.2534 14.96; 2822 6.08788 30.7362 14.96
1041. 2823 6.89829 29.9966 14.96; 2824 6.97424 27.7288 14.96
1042. 2825 6.0981 29.254 14.96; 2826 6.96385 26.9876 14.96
1043. 2827 6.96978 26.2488 14.96; 2828 6.87917 27.727 14.96
1044. 2829 6.86357 26.9842 14.96; 2830 6.97083 24.7182 14.96
1045. 2831 6.85639 26.2461 14.96; 2832 6.96955 23.9783 14.96
1046. 2833 6.98242 23.2393 14.96; 2834 6.86341 24.7215 14.96

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

1047. 2835 6.06823 23.9807 14.96; 2836 6.96802 21.707 14.96
1048. 2837 6.072 23.2365 14.96; 2838 6.96281 20.9691 14.96
1049. 2839 6.97269 20.2287 14.96; 2840 6.06375 21.7097 14.96
1050. 2841 6.05645 20.9722 14.96; 2842 7.00326 18.6922 14.96
1051. 2843 6.05863 20.2286 14.96; 2844 6.99846 17.954 14.96
1052. 2845 6.98622 17.2147 14.96; 2846 6.09259 18.6937 14.96
1053. 2847 6.09339 17.9542 14.96; 2848 6.99036 15.6839 14.96
1054. 2849 6.08651 17.214 14.96; 2850 6.96794 14.9442 14.96
1055. 2851 6.96849 14.2038 14.96; 2852 6.08119 15.6868 14.96
1056. 2853 6.07238 14.9455 14.96; 2854 6.97788 12.6769 14.96
1057. 2855 6.07322 14.2029 14.96; 2856 6.96624 11.9359 14.96
1058. 2857 6.96894 11.1942 14.96; 2858 6.08 12.6773 14.96
1059. 2859 6.07089 11.9346 14.96; 2860 6.97512 9.6644 14.96
1060. 2861 6.06959 11.1943 14.96; 2862 6.98134 8.92368 14.96
1061. 2863 6.98458 8.18132 14.96; 2864 6.06545 9.66335 14.96
1062. 2865 6.07043 8.91717 14.96; 2866 6.98524 6.653 14.96
1063. 2867 6.07612 8.18155 14.96; 2868 6.9668 5.90974 14.96
1064. 2869 6.9654 5.17202 14.96; 2870 6.06603 6.65124 14.96
1065. 2871 6.06897 5.9108 14.96; 2872 7.03768 3.39044 14.96
1066. 2873 6.05932 5.17847 14.96; 2874 7.1948 2.2599 14.96
1067. 2875 6.09934 3.39587 14.96; 2876 7.21337 0.855159 14.96
1068. 2877 6.17889 2.41958 14.96; 2878 6.18489 0.751559 14.96
1069. 2879 6.98103 35.6335 14.96; 2880 7.43566 35.2596 14.96
1070. 2881 6.98156 34.8852 14.96; 2882 7.12785 2.84825 14.96
1071. 2883 7.54678 2.37456 14.96; 2884 7.45604 3.41319 14.96
1072. 2885 6.06786 19.8566 14.96; 2886 5.62026 20.2205 14.96
1073. 2887 6.0826 13.0542 14.96; 2888 6.53233 12.6772 14.96
1074. 2889 6.97785 13.0505 14.96; 2890 6.08457 16.0623 14.96
1075. 2891 6.53843 15.6851 14.96; 2892 6.98564 16.0619 14.96
1076. 2893 6.0807 34.8844 14.96; 2894 5.62734 35.2571 14.96
1077. 2895 6.08185 35.6311 14.96; 2896 6.53442 35.2562 14.96
1078. 2897 6.10348 1.97061 14.96; 2898 5.68444 2.44479 14.96
1079. 2899 6.99849 18.3229 14.96; 2900 7.43486 17.954 14.96
1080. 2901 7.44126 18.6998 14.96; 2902 6.14994 0.389909 14.96
1081. 2903 5.67185 0.745387 14.96; 2904 7.43436 8.17737 14.96
1082. 2905 7.42841 8.92462 14.96; 2906 6.98299 8.5538 14.96
1083. 2907 7.42478 21.7115 14.96; 2908 6.96513 21.3347 14.96
1084. 2909 7.41604 20.9671 14.96; 2910 5.62179 24.7247 14.96
1085. 2911 6.07336 25.0948 14.96; 2912 6.9721 13.8321 14.96
1086. 2913 6.52379 14.2027 14.96; 2914 6.07063 13.8282 14.96
1087. 2915 5.63109 15.6925 14.96; 2916 5.6292 14.9454 14.96
1088. 2917 6.07627 15.3149 14.96; 2918 6.97205 25.093 14.96
1089. 2919 7.42452 24.7229 14.96; 2920 6.08125 34.1216 14.96
1090. 2921 6.53219 33.7492 14.96; 2922 6.97633 34.1211 14.96
1091. 2923 7.42482 32.2586 14.96; 2924 6.97097 31.8889 14.96
1092. 2925 6.05794 20.602 14.96; 2926 5.62323 20.9686 14.96
1093. 2927 5.62175 21.7139 14.96; 2928 6.07323 22.084 14.96
1094. 2929 7.43113 23.2309 14.96; 2930 7.41949 25.9769 14.96
1095. 2931 6.97583 23.6112 14.96; 2932 7.42847 26.241 14.96
1096. 2933 6.97328 25.8717 14.96; 2934 6.07977 7.81088 14.96
1097. 2935 5.63078 8.17662 14.96; 2936 6.98632 7.02979 14.96
1098. 2937 7.43766 6.65951 14.96; 2938 7.00105 3.98774 14.96
1099. 2939 7.43341 29.2464 14.96; 2940 6.98266 28.8789 14.96
1100. 2941 5.62963 33.752 14.96; 2942 7.42642 27.7336 14.96
1101. 2943 6.9685 27.3562 14.96; 2944 7.41993 26.9869 14.96
1102. 2945 6.08911 28.8796 14.96; 2946 6.54376 29.2534 14.96

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

1103. 2947 6.96442 26.6207 14.96; 2948 6.97528 28.0972 14.96
1104. 2949 6.06884 23.6099 14.96; 2950 5.62725 23.9778 14.96
1105. 2951 5.62207 23.2303 14.96; 2952 6.06544 24.3471 14.96
1106. 2953 6.06843 11.5654 14.96; 2954 5.62882 11.9346 14.96
1107. 2955 5.62604 11.1871 14.96; 2956 5.6234 9.6705 14.96
1108. 2957 6.07516 10.0407 14.96; 2958 6.51565 9.6634 14.96
1109. 2959 6.97529 10.0395 14.96; 2960 7.49111 1.85763 14.96
1110. 2961 6.95977 1.89579 14.96; 2962 6.9798 22.8655 14.96
1111. 2963 6.52521 23.2393 14.96; 2964 6.07565 22.8591 14.96
1112. 2965 5.62785 12.6832 14.96; 2966 6.07658 10.8283 14.96
1113. 2967 7.42642 33.7536 14.96; 2968 6.97344 33.3754 14.96
1114. 2969 7.42082 33.0862 14.96; 2970 7.42817 12.6829 14.96
1115. 2971 5.63353 17.2084 14.96; 2972 6.0899 17.5865 14.96
1116. 2973 5.63979 17.9552 14.96; 2974 6.08579 16.8381 14.96
1117. 2975 6.08212 28.1042 14.96; 2976 6.52706 27.7264 14.96
1118. 2977 6.98163 7.80834 14.96; 2978 7.4226 14.1975 14.96
1119. 2979 5.03603 18.7002 14.96; 2980 6.08979 19.0701 14.96
1120. 2981 5.62415 6.65989 14.96; 2982 5.62373 5.91217 14.96
1121. 2983 6.06475 6.2811 14.96; 2984 6.07447 7.02937 14.96
1122. 2985 6.52176 6.65156 14.96; 2986 6.11223 1.10888 14.96
1123. 2987 7.49727 1.17 14.96; 2988 7.57826 0.772191 14.96
1124. 2989 7.42761 20.2214 14.96; 2990 6.97549 19.8518 14.96
1125. 2991 5.63741 30.7484 14.96; 2992 6.08696 31.1093 14.96
1126. 2993 6.07706 31.8892 14.96; 2994 5.62833 32.2571 14.96
1127. 2995 6.09117 3.91337 14.96; 2996 5.64467 3.41794 14.96
1128. 2997 5.61972 5.16634 14.96; 2998 6.06223 5.54202 14.96
1129. 2999 6.52152 33.0046 14.96; 3000 6.07357 32.6343 14.96
1130. 3001 6.51665 32.2634 14.96; 3002 6.96992 32.6366 14.96
1131. 3003 6.98411 31.11 14.96; 3004 7.43202 30.7411 14.96
1132. 3005 5.63535 29.2491 14.96; 3006 6.0907 29.6276 14.96
1133. 3007 5.64013 29.9962 14.96; 3008 7.41976 14.9428 14.96
1134. 3009 6.96774 14.5751 14.96; 3010 6.07601 12.303 14.96
1135. 3011 7.43044 17.2079 14.96; 3012 6.98053 16.84 14.96
1136. 3013 5.63206 33.0038 14.96; 3014 6.07787 33.3709 14.96
1137. 3015 7.42824 9.66997 14.96; 3016 6.9682 1.16835 14.96
1138. 3017 6.07242 27.3529 14.96; 3018 6.51288 26.9856 14.96
1139. 3019 6.97294 12.305 14.96; 3020 7.41841 11.9357 14.96
1140. 3021 6.9881 30.3625 14.96; 3022 7.4304 29.9934 14.96
1141. 3023 7.11424 0.427634 14.96; 3024 6.99051 17.586 14.96
1142. 3025 5.62785 27.7332 14.96; 3026 7.43464 15.6893 14.96
1143. 3027 5.62702 14.1975 14.96; 3028 6.06972 14.5769 14.96
1144. 3029 6.06908 9.28828 14.96; 3030 6.52544 8.9201 14.96
1145. 3031 6.97719 9.29122 14.96; 3032 6.99214 19.0634 14.96
1146. 3033 7.42374 11.1896 14.96; 3034 6.96983 10.8199 14.96
1147. 3035 6.9707 22.0818 14.96; 3036 6.51028 20.229 14.96
1148. 3037 6.71843 0.785743 14.96; 3038 6.07094 4.79672 14.96
1149. 3039 6.98867 29.6252 14.96; 3040 5.62558 26.9849 14.96
1150. 3041 6.06618 25.8753 14.96; 3042 5.61899 26.2393 14.96
1151. 3043 6.05926 21.3376 14.96; 3044 6.54724 17.9544 14.96
1152. 3045 6.5407 17.2132 14.96; 3046 6.70156 2.37106 14.96
1153. 3047 6.08937 30.3653 14.96; 3048 6.07341 8.55136 14.96
1154. 3049 5.63022 8.92108 14.96; 3050 6.5629 3.39012 14.96
1155. 3051 7.42245 5.16807 14.96; 3052 6.96751 4.79797 14.96
1156. 3053 6.96516 5.54293 14.96; 3054 6.51211 5.91087 14.96
1157. 3055 6.50635 5.17141 14.96; 3056 6.97525 6.28023 14.96
1158. 3057 7.41873 5.9116 14.96; 3058 6.15029 2.89751 14.96

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

1159. 3059 6.97863 15.3122 14.96; 3060 6.96896 24.3443 14.96
1160. 3061 6.06094 26.6157 14.96; 3062 6.51735 11.9344 14.96
1161. 3063 6.51442 11.1945 14.96; 3064 6.96808 11.5668 14.96
1162. 3065 6.96808 20.6012 14.96; 3066 6.53705 38.7365 14.96
1163. 3067 6.51075 21.7079 14.96; 3068 6.51051 14.0448 14.96
1164. 3069 6.09578 18.3187 14.96; 3070 6.51094 24.7211 14.96
1165. 3071 6.50793 26.2479 14.96; 3072 6.55317 18.6932 14.96
1166. 3073 6.51879 23.9791 14.96; 3074 6.53992 29.9953 14.96
1167. 3075 6.52574 8.17963 14.96; 3076 6.5096 20.9703 14.96
1168. 3077 7.43093 35.633 14.96; 3078 7.43079 34.8861 14.96
1169. 3079 7.50381 2.89798 14.96; 3080 5.6266 19.8453 14.96
1170. 3081 6.53168 13.0525 14.96; 3082 6.53831 16.0619 14.96
1171. 3083 5.63046 34.8859 14.96; 3084 6.53355 35.6314 14.96
1172. 3085 5.64592 1.97332 14.96; 3086 7.43734 18.3264 14.96
1173. 3087 5.66089 0.386723 14.96; 3088 7.43212 8.55346 14.96
1174. 3089 7.42026 21.3366 14.96; 3090 5.63022 25.0992 14.96
1175. 3091 6.52642 13.826 14.96; 3092 5.62975 15.3182 14.96
1176. 3093 7.42437 25.0968 14.96; 3094 6.53039 34.1231 14.96
1177. 3095 7.42443 31.8841 14.96; 3096 5.62144 20.5956 14.96
1178. 3097 5.6302 22.0888 14.96; 3098 7.42506 23.6054 14.96
1179. 3099 7.42512 25.8646 14.96; 3100 5.63341 7.8014 14.96
1180. 3101 7.43231 7.03561 14.96; 3102 7.43424 3.91699 14.96
1181. 3103 7.42733 28.8713 14.96; 3104 5.63315 34.1297 14.96
1182. 3105 7.4214 27.3584 14.96; 3106 6.53688 28.8779 14.96
1183. 3107 7.42172 26.6159 14.96; 3108 7.42506 28.1054 14.96
1184. 3109 5.6334 35.632 14.96; 3110 5.62387 23.6052 14.96
1185. 3111 5.62663 24.3501 14.96; 3112 5.6269 11.5617 14.96
1186. 3113 5.63104 10.0471 14.96; 3114 6.52308 10.0487 14.96
1187. 3115 7.23985 1.74376 14.96; 3116 6.52665 22.8532 14.96
1188. 3117 5.6341 13.0592 14.96; 3118 5.63239 10.8117 14.96
1189. 3119 7.42466 34.1275 14.96; 3120 7.42329 33.3782 14.96
1190. 3121 7.42552 13.0573 14.96; 3122 5.63747 17.5841 14.96
1191. 3123 5.63472 16.8338 14.96; 3124 6.52986 28.1017 14.96
1192. 3125 7.42826 7.80032 14.96; 3126 7.42343 13.8252 14.96
1193. 3127 5.63624 19.0752 14.96; 3128 5.62349 6.28604 14.96
1194. 3129 6.52761 7.02909 14.96; 3130 5.64577 1.10922 14.96
1195. 3131 7.69403 1.1545 14.96; 3132 7.42575 19.8445 14.96
1196. 3133 5.636 31.1149 14.96; 3134 5.63254 31.8813 14.96
1197. 3135 5.64063 3.91658 14.96; 3136 5.62281 5.54019 14.96
1198. 3137 6.5195 32.6357 14.96; 3138 7.42947 31.1189 14.96
1199. 3139 5.63808 29.6241 14.96; 3140 7.42101 14.5716 14.96
1200. 3141 5.62919 12.3066 14.96; 3142 7.42594 16.8321 14.96
1201. 3143 5.63041 33.3764 14.96; 3144 7.42698 10.0459 14.96
1202. 3145 7.24809 1.29121 14.96; 3146 6.5204 27.3535 14.96
1203. 3147 7.42309 12.3077 14.96; 3148 7.43147 38.3648 14.96
1204. 3149 7.50967 0.405704 14.96; 3150 7.43227 17.5813 14.96
1205. 3151 5.63197 28.1078 14.96; 3152 7.43201 16.0668 14.96
1206. 3153 5.63384 16.0677 14.96; 3154 5.62664 14.5727 14.96
1207. 3155 7.42647 22.8542 14.96; 3156 5.62863 22.8536 14.96
1208. 3157 6.52087 9.28887 14.96; 3158 7.43338 19.0747 14.96
1209. 3159 7.42389 10.8145 14.96; 3160 7.42427 22.086 14.96
1210. 3161 6.5202 19.8532 14.96; 3162 6.57052 1.12809 14.96
1211. 3163 5.62772 4.79216 14.96; 3164 5.62842 7.83683 14.96
1212. 3165 7.43042 29.6211 14.96; 3166 5.63042 32.6319 14.96
1213. 3167 5.62795 27.3577 14.96; 3168 5.62574 25.8646 14.96
1214. 3169 5.62356 21.3403 14.96; 3170 6.54299 17.5865 14.96

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. 3171 6.56165 1.95118 14.96; 3172 5.63874 30.3679 14.96
1216. 3173 5.63819 8.54946 14.96; 3174 6.54628 3.90531 14.96
1217. 3175 7.42306 4.79369 14.96; 3176 6.50889 5.54324 14.96
1218. 3177 7.42845 6.28413 14.96; 3178 5.63187 13.8202 14.96
1219. 3179 5.66705 2.92445 14.96; 3180 7.42869 9.29493 14.96
1220. 3181 7.42686 15.3143 14.96; 3182 5.63588 28.8743 14.96
1221. 3183 7.4217 24.3474 14.96; 3184 5.62733 9.29419 14.96
1222. 3185 5.62181 26.6125 14.96; 3186 6.64854 2.87514 14.96
1223. 3187 7.42134 32.6342 14.96; 3188 6.51342 11.5669 14.96
1224. 3189 7.42226 20.5965 14.96; 3190 6.53424 31.1113 14.96
1225. 3191 7.69251 1.88787 14.96; 3192 6.52006 22.0834 14.96
1226. 3193 6.51633 14.5766 14.96; 3194 5.63924 18.3256 14.96
1227. 3195 6.53355 34.8823 14.96; 3196 6.63734 0.406511 14.96
1228. 3197 6.52069 25.0947 14.96; 3198 7.42105 11.5644 14.96
1229. 3199 6.52816 15.3132 14.96; 3200 6.5183 25.8723 14.96
1230. 3201 6.54106 19.0685 14.96; 3202 6.51556 24.3473 14.96
1231. 3203 6.5226 23.6103 14.96; 3204 7.42094 5.54081 14.96
1232. 3205 6.5414 29.6264 14.96; 3206 6.5173 4.79783 14.96
1233. 3207 6.52122 10.8187 14.96; 3208 6.52867 7.80792 14.96
1234. 3209 6.52193 31.8882 14.96; 3210 6.52753 8.55252 14.96
1235. 3211 6.51606 6.27921 14.96; 3212 6.52524 12.3036 14.96
1236. 3213 6.50987 26.6183 14.96; 3214 6.52518 33.374 14.96
1237. 3215 6.51833 28.6827 14.96; 3216 6.55038 18.3213 14.96
1238. 3217 6.5383 30.3639 14.96; 3218 6.53519 16.8377 14.96
1239. 3219 6.50973 21.3368 14.96; 3220 9.16 0.375 9.64; 3221 9.16 0.75 9.64
1240. 3222 9.16 1.125 9.64; 3223 9.16 1.985 9.64; 3224 9.16 2.47 9.64
1241. 3225 9.16 2.955 9.64; 3226 9.16 3.44 9.64; 3227 9.16 3.925 9.64
1242. 3228 9.16 4.78625 9.64; 3229 9.16 5.1625 9.64; 3230 9.16 5.53875 9.64
1243. 3231 9.16 5.915 9.64; 3232 9.16 6.29125 9.64; 3233 9.16 6.6675 9.64
1244. 3234 9.16 7.04375 9.64; 3235 9.16 7.79625 9.64; 3236 9.16 8.1725 9.64
1245. 3237 9.16 8.54875 9.64; 3238 9.16 8.925 9.64; 3239 9.16 9.30125 9.64
1246. 3240 9.16 9.6775 9.64; 3241 9.16 10.0538 9.64; 3242 9.16 10.8063 9.64
1247. 3243 9.16 11.1825 9.64; 3244 9.16 11.5588 9.64; 3245 9.16 11.935 9.64
1248. 3246 9.16 12.3112 9.64; 3247 9.16 12.6875 9.64; 3248 9.16 13.0637 9.64
1249. 3249 9.16 13.8162 9.64; 3250 9.16 14.1925 9.64; 3251 9.16 14.5688 9.64
1250. 3252 9.16 14.945 9.64; 3253 9.16 15.3212 9.64; 3254 9.16 15.6975 9.64
1251. 3255 9.16 16.0738 9.64; 3256 9.16 16.8263 9.64; 3257 9.16 17.2025 9.64
1252. 3258 9.16 17.5788 9.64; 3259 9.16 17.955 9.64; 3260 9.16 18.3312 9.64
1253. 3261 9.16 18.7075 9.64; 3262 9.16 19.8837 9.64; 3263 9.16 19.8362 9.64
1254. 3264 9.16 20.2125 9.64; 3265 9.16 20.5887 9.64; 3266 9.16 20.965 9.64
1255. 3267 9.16 21.3412 9.64; 3268 9.16 21.7175 9.64; 3269 9.16 22.0938 9.64
1256. 3270 9.16 22.8462 9.64; 3271 9.16 23.2225 9.64; 3272 9.16 23.5987 9.64
1257. 3273 9.16 23.975 9.64; 3274 9.16 24.3512 9.64; 3275 9.16 24.7275 9.64
1258. 3276 9.16 25.1038 9.64; 3277 9.16 25.8562 9.64; 3278 9.16 26.2325 9.64
1259. 3279 9.16 26.6087 9.64; 3280 9.16 26.985 9.64; 3281 9.16 27.3612 9.64
1260. 3282 9.16 27.7375 9.64; 3283 9.16 28.1138 9.64; 3284 9.16 28.8662 9.64
1261. 3285 9.16 29.2425 9.64; 3286 9.16 29.6187 9.64; 3287 9.16 29.995 9.64
1262. 3288 9.16 30.3713 9.64; 3289 9.16 30.7475 9.64; 3290 9.16 31.1238 9.64
1263. 3291 9.16 31.8762 9.64; 3292 9.16 32.2525 9.64; 3293 9.16 32.6287 9.64
1264. 3294 9.16 33.005 9.64; 3295 9.16 33.3812 9.64; 3296 9.16 33.7575 9.64
1265. 3297 9.16 34.1337 9.64; 3298 9.16 34.885 9.64; 3299 9.16 35.26 9.64
1266. 3300 9.16 35.635 9.64; 3301 9.6075 36.01 9.64; 3302 10.055 36.01 9.64
1267. 3303 10.5025 36.01 9.64; 3304 11.085 36.01 9.64; 3305 11.22 35.635 9.64
1268. 3306 11.22 35.26 9.64; 3307 11.22 34.885 9.64; 3308 11.22 34.1337 9.64
1269. 3309 11.22 33.7575 9.64; 3310 11.22 33.3812 9.64; 3311 11.22 33.005 9.64
1270. 3312 11.22 32.6287 9.64; 3313 11.22 32.2525 9.64; 3314 11.22 31.8762 9.64
```

V. JAGEN, B.E.,M.E.,(Stud), 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

1271. 3315 11.22 31.1238 9.64; 3316 11.22 30.7475 9.64; 3317 11.22 30.3713 9.64
1272. 3318 11.22 29.995 9.64; 3319 11.22 29.6187 9.64; 3320 11.22 29.2425 9.64
1273. 3321 11.22 28.8662 9.64; 3322 11.22 28.1138 9.64; 3323 11.22 27.7375 9.64
1274. 3324 11.22 27.3612 9.64; 3325 11.22 26.985 9.64; 3326 11.22 26.6087 9.64
1275. 3327 11.22 26.2325 9.64; 3328 11.22 25.8562 9.64; 3329 11.22 25.1038 9.64
1276. 3330 11.22 24.7275 9.64; 3331 11.22 24.3512 9.64; 3332 11.22 23.975 9.64
1277. 3333 11.22 23.5987 9.64; 3334 11.22 23.2225 9.64; 3335 11.22 22.8462 9.64
1278. 3336 11.22 22.0938 9.64; 3337 11.22 21.7175 9.64; 3338 11.22 21.3412 9.64
1279. 3339 11.22 20.965 9.64; 3340 11.22 20.5887 9.64; 3341 11.22 20.2125 9.64
1280. 3342 11.22 19.8362 9.64; 3343 11.22 19.0837 9.64; 3344 11.22 18.7075 9.64
1281. 3345 11.22 18.3312 9.64; 3346 11.22 17.955 9.64; 3347 11.22 17.5788 9.64
1282. 3348 11.22 17.2025 9.64; 3349 11.22 16.8263 9.64; 3350 11.22 16.0738 9.64
1283. 3351 11.22 15.6975 9.64; 3352 11.22 15.3212 9.64; 3353 11.22 14.945 9.64
1284. 3354 11.22 14.5688 9.64; 3355 11.22 14.1925 9.64; 3356 11.22 13.8162 9.64
1285. 3357 11.22 13.0637 9.64; 3358 11.22 12.6875 9.64; 3359 11.22 12.3112 9.64
1286. 3360 11.22 11.935 9.64; 3361 11.22 11.5588 9.64; 3362 11.22 11.1825 9.64
1287. 3363 11.22 10.8063 9.64; 3364 11.22 10.0538 9.64; 3365 11.22 9.6775 9.64
1288. 3366 11.22 9.30125 9.64; 3367 11.22 8.925 9.64; 3368 11.22 8.54875 9.64
1289. 3369 11.22 8.1725 9.64; 3370 11.22 7.79625 9.64; 3371 11.22 7.04375 9.64
1290. 3372 11.22 6.6675 9.64; 3373 11.22 6.29125 9.64; 3374 11.22 5.915 9.64
1291. 3375 11.22 5.53875 9.64; 3376 11.22 5.1625 9.64; 3377 11.22 4.78625 9.64
1292. 3378 11.22 3.925 9.64; 3379 11.22 3.44 9.64; 3380 11.22 2.955 9.64
1293. 3381 11.22 2.47 9.64; 3382 11.22 1.985 9.64; 3383 11.22 1.125 9.64
1294. 3384 11.22 0.75 9.64; 3385 11.22 0.375 9.64; 3386 10.8767 0 9.64
1295. 3387 10.5133 0 9.64; 3388 10.19 0 9.64; 3389 9.84667 0 9.64
1296. 3390 9.50333 0 9.64; 3391 9.6075 4.41 9.64; 3392 10.055 4.41 9.64
1297. 3393 10.5025 4.41 9.64; 3394 11.085 4.41 9.64; 3395 9.6075 7.42 9.64
1298. 3396 10.055 7.42 9.64; 3397 10.5025 7.42 9.64; 3398 11.085 7.42 9.64
1299. 3399 9.6075 10.43 9.64; 3400 10.055 10.43 9.64; 3401 10.5025 10.43 9.64
1300. 3402 11.085 10.43 9.64; 3403 9.6075 13.44 9.64; 3404 10.055 13.44 9.64
1301. 3405 10.5025 13.44 9.64; 3406 11.085 13.44 9.64; 3407 9.6075 16.45 9.64
1302. 3408 10.055 16.45 9.64; 3409 10.5025 16.45 9.64; 3410 11.085 16.45 9.64
1303. 3411 9.6075 19.46 9.64; 3412 10.055 19.46 9.64; 3413 10.5025 19.46 9.64
1304. 3414 11.085 19.46 9.64; 3415 9.6075 22.47 9.64; 3416 10.055 22.47 9.64
1305. 3417 10.5025 22.47 9.64; 3418 11.085 22.47 9.64; 3419 9.6075 25.48 9.64
1306. 3420 10.055 25.48 9.64; 3421 10.5025 25.48 9.64; 3422 11.085 25.48 9.64
1307. 3423 9.6075 28.49 9.64; 3424 10.055 28.49 9.64; 3425 10.5025 28.49 9.64
1308. 3426 11.085 28.49 9.64; 3427 9.6075 31.5 9.64; 3428 10.055 31.5 9.64
1309. 3429 10.5025 31.5 9.64; 3430 11.085 31.5 9.64; 3431 9.6075 34.51 9.64
1310. 3432 10.055 34.51 9.64; 3433 10.5025 34.51 9.64; 3434 11.085 34.51 9.64
1311. 3435 9.6075 1.5 9.64; 3436 10.055 1.5 9.64; 3437 10.5025 1.5 9.64
1312. 3438 11.085 1.5 9.64; 3439 9.98637 35.265 9.64; 3440 10.6663 33.7641 9.64
1313. 3441 10.5766 33.005 9.64; 3442 10.6629 32.2433 9.64; 3443 9.94241 33.7716 9.64
1314. 3444 9.98607 33.005 9.64; 3445 10.6663 30.7541 9.64; 3446 9.9425 32.2384 9.64
1315. 3447 10.5766 29.995 9.64; 3448 10.6629 29.2333 9.64; 3449 9.9425 30.7616 9.64
1316. 3450 9.98609 29.995 9.64; 3451 10.6694 27.7447 9.64; 3452 9.9425 29.2284 9.64
1317. 3453 10.6814 26.985 9.64; 3454 10.6649 26.2233 9.64; 3455 9.9425 27.7516 9.64
1318. 3456 9.87191 26.985 9.64; 3457 10.6525 24.7354 9.64; 3458 9.94192 25.2198 9.64
1319. 3459 10.5231 23.975 9.64; 3460 10.6495 23.2134 9.64; 3461 9.9425 24.7416 9.64
1320. 3462 9.9125 23.975 9.64; 3463 10.6663 21.7241 9.64; 3464 9.9425 23.2084 9.64
1321. 3465 10.5766 20.965 9.64; 3466 10.6629 20.2033 9.64; 3467 9.9425 21.7316 9.64
1322. 3468 9.98609 20.965 9.64; 3469 10.6663 18.7141 9.64; 3470 9.9425 20.1984 9.64
1323. 3471 10.5766 17.955 9.64; 3472 10.6629 17.1933 9.64; 3473 9.9425 18.7216 9.64
1324. 3474 9.98609 17.955 9.64; 3475 10.6667 15.7043 9.64; 3476 9.9425 17.1884 9.64
1325. 3477 10.5766 14.945 9.64; 3478 10.6621 14.1832 9.64; 3479 9.9425 15.7116 9.64
1326. 3480 9.98609 14.945 9.64; 3481 10.6694 12.6943 9.64; 3482 9.9425 14.1784 9.64

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

1327. 3483 10.6014 11.935 9.64; 3484 10.6659 11.1734 9.64; 3485 9.9425 12.7016 9.64
1328. 3486 9.87191 11.935 9.64; 3487 10.6663 9.68413 9.64; 3488 9.94199 11.1697 9.64
1329. 3489 10.5766 8.925 9.64; 3490 10.6629 8.1633 9.64; 3491 9.9425 9.69158 9.64
1330. 3492 9.90609 8.925 9.64; 3493 10.6537 6.67511 9.64; 3494 9.9425 8.15842 9.64
1331. 3495 10.5307 5.91495 9.64; 3496 10.6514 5.15519 9.64; 3497 9.9425 6.68158 9.64
1332. 3498 9.9125 5.915 9.64; 3499 9.95711 3.48177 9.64; 3500 9.96842 2.44476 9.64
1333. 3501 10.6682 0.755386 9.64; 3502 9.89612 0.738514 9.64
1334. 3503 9.91564 5.16991 9.64; 3504 10.6689 2.42496 9.64
1335. 3505 10.6842 35.2623 9.64; 3506 10.6641 3.48679 9.64
1336. 3507 9.8633 0.353871 9.64; 3508 9.52085 0.743341 9.64
1337. 3509 10.775 35.6591 9.64; 3510 10.9752 35.2658 9.64; 3511 10.9436 26.2252 9.64
1338. 3512 10.7701 25.8486 9.64; 3513 10.345 35.2624 9.64; 3514 10.0166 35.65 9.64
1339. 3515 10.6439 2.95474 9.64; 3516 10.3195 3.48596 9.64
1340. 3517 9.96845 2.96697 9.64; 3518 10.3343 2.42821 9.64; 3519 10.7794 34.882 9.64
1341. 3520 10.7803 25.1033 9.64; 3521 10.9436 24.7348 9.64
1342. 3522 9.55125 21.7245 9.64; 3523 9.99574 22.0944 9.64; 3524 10.8983 20.965 9.64
1343. 3525 10.9475 21.7236 9.64; 3526 10.6079 21.3452 9.64
1344. 3527 10.7803 13.0633 9.64; 3528 10.948 12.6938 9.64; 3529 9.99572 13.8085 9.64
1345. 3530 9.55125 14.1855 9.64; 3531 10.7694 1.129 9.64; 3532 10.947 0.752664 9.64
1346. 3533 10.8983 8.925 9.64; 3534 10.6207 8.54277 9.64; 3535 10.9436 8.16524 9.64
1347. 3536 10.9517 2.42151 9.64; 3537 10.7649 1.92401 9.64
1348. 3538 9.55125 18.7145 9.64; 3539 9.99574 19.0844 9.64
1349. 3540 10.5808 24.3577 9.64; 3541 10.8722 23.9759 9.64
1350. 3542 9.92429 14.5617 9.64; 3543 9.53305 14.945 9.64; 3544 9.55125 15.7845 9.64
1351. 3545 9.99574 16.0744 9.64; 3546 10.7803 34.1333 9.64
1352. 3547 10.9475 33.7636 9.64; 3548 10.7701 22.8386 9.64
1353. 3549 10.9436 23.2152 9.64; 3550 10.3026 21.7318 9.64
1354. 3551 10.7803 22.0933 9.64; 3552 9.99572 22.8379 9.64
1355. 3553 9.55125 23.2155 9.64; 3554 9.5574 35.2612 9.64; 3555 10.0173 34.8824 9.64
1356. 3556 10.3026 26.2182 9.64; 3557 10.6332 26.6028 9.64; 3558 10.2366 26.985 9.64
1357. 3559 9.9072 26.6017 9.64; 3560 9.99575 10.7983 9.64; 3561 9.55125 11.1755 9.64
1358. 3562 10.7803 7.04332 9.64; 3563 10.9436 6.67476 9.64
1359. 3564 10.9436 29.2352 9.64; 3565 10.7701 28.8586 9.64
1360. 3566 9.55121 33.7645 9.64; 3567 9.9957 34.1344 9.64; 3568 10.9475 30.7536 9.64
1361. 3569 10.7803 31.1133 9.64; 3570 9.55125 30.7545 9.64; 3571 9.53305 29.995 9.64
1362. 3572 9.92429 30.3783 9.64; 3573 10.6079 30.3752 9.64
1363. 3574 10.3026 30.7618 9.64; 3575 10.2413 29.995 9.64; 3576 9.53625 23.975 9.64
1364. 3577 9.91171 24.363 9.64; 3578 9.55125 24.7345 9.64; 3579 10.3026 23.2082 9.64
1365. 3580 10.7701 7.78856 9.64; 3581 10.3026 9.69183 9.64
1366. 3582 10.7803 10.0533 9.64; 3583 9.99574 10.0544 9.64
1367. 3584 10.9475 9.68358 9.64; 3585 10.6079 9.30523 9.64; 3586 10 1.95028 9.64
1368. 3587 9.56989 2.46109 9.64; 3588 9.99574 19.8282 9.64
1369. 3589 9.55125 20.2055 9.64; 3590 10.6332 11.5528 9.64
1370. 3591 10.9475 11.1755 9.64; 3592 10.9107 11.935 9.64; 3593 10.8983 33.005 9.64
1371. 3594 10.6207 32.6228 9.64; 3595 10.9436 32.2452 9.64
1372. 3596 9.55125 12.6945 9.64; 3597 9.99574 13.0644 9.64
1373. 3598 10.3026 12.7018 9.64; 3599 10.8983 17.955 9.64; 3600 10.6207 17.5728 9.64
1374. 3601 10.9436 17.1952 9.64; 3602 9.99574 16.8182 9.64
1375. 3603 9.55125 17.1955 9.64; 3604 10.9107 26.985 9.64; 3605 10.3026 8.15817 9.64
1376. 3606 10.2413 8.925 9.64; 3607 9.92429 8.54171 9.64; 3608 9.55125 6.67454 9.64
1377. 3609 9.99574 7.04446 9.64; 3610 10.9475 18.7136 9.64
1378. 3611 10.6079 18.3352 9.64; 3612 10.7629 3.99025 9.64
1379. 3613 9.99582 3.96546 9.64; 3614 10.3026 6.68183 9.64
1380. 3615 10.2807 0.744651 9.64; 3616 10.5898 0.368042 9.64
1381. 3617 9.97291 1.12721 9.64; 3618 10.7701 19.8286 9.64
1382. 3619 10.9436 20.2052 9.64; 3620 10.7803 19.0833 9.64; 3621 10.948 27.7438 9.64

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

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1383. 3622 10.7803 28.1133 9.64; 3623 9.99574 28.8582 9.64
1384. 3624 10.3026 29.2282 9.64; 3625 10.9449 3.4814 9.64; 3626 10.7701 31.8686 9.64
1385. 3627 10.8983 29.995 9.64; 3628 10.6207 29.6128 9.64; 3629 10.6332 12.3172 9.64
1386. 3630 9.51595 11.935 9.64; 3631 9.9072 12.3183 9.64; 3632 10.7701 16.8186 9.64
1387. 3633 9.55125 32.2455 9.64; 3634 9.92428 32.6217 9.64; 3635 9.53303 33.005 9.64
1388. 3636 9.55125 9.68454 9.64; 3637 9.9072 11.5517 9.64; 3638 10.7701 10.7986 9.64
1389. 3639 9.99574 31.8682 9.64; 3640 10.3026 32.2382 9.64
1390. 3641 9.99574 31.1244 9.64; 3642 9.99572 25.8485 9.64
1391. 3643 9.55125 26.2255 9.64; 3644 9.92429 15.3283 9.64
1392. 3645 10.6207 14.5628 9.64; 3646 10.9436 14.1852 9.64; 3647 10.8983 14.945 9.64
1393. 3648 10.5797 23.5919 9.64; 3649 10.5806 6.29537 9.64
1394. 3650 10.8744 5.91496 9.64; 3651 9.53625 5.915 9.64; 3652 9.91265 6.30289 9.64
1395. 3653 9.53305 17.955 9.64; 3654 9.92429 18.3383 9.64; 3655 10.6207 20.5828 9.64
1396. 3656 9.9836 4.78085 9.64; 3657 9.53205 5.16796 9.64; 3658 9.55856 3.46089 9.64
1397. 3659 10.6332 27.3672 9.64; 3660 9.55125 27.7445 9.64
1398. 3661 9.99574 28.1144 9.64; 3662 10.3026 17.1882 9.64
1399. 3663 9.99574 25.1044 9.64; 3664 9.92429 20.5817 9.64; 3665 9.53305 20.965 9.64
1400. 3666 9.92429 21.3483 9.64; 3667 10.2413 20.965 9.64; 3668 10.9475 15.7036 9.64
1401. 3669 10.608 15.3253 9.64; 3670 10.7883 16.8733 9.64; 3671 9.55125 29.2355 9.64
1402. 3672 9.92424 33.3883 9.64; 3673 10.2413 33.005 9.64; 3674 10.6079 33.3852 9.64
1403. 3675 10.3026 33.7718 9.64; 3676 9.92429 9.30829 9.64
1404. 3677 10.5757 5.53493 9.64; 3678 10.942 5.15621 9.64; 3679 10.7671 4.78028 9.64
1405. 3680 10.7701 13.8086 9.64; 3681 10.2413 14.045 9.64; 3682 10.3026 14.1782 9.64
1406. 3683 9.91267 23.587 9.64; 3684 10.3026 24.7418 9.64; 3685 10.212 23.9748 9.64
1407. 3686 9.99574 7.78821 9.64; 3687 9.55125 8.16546 9.64
1408. 3688 10.3026 15.7118 9.64; 3689 9.92429 29.6117 9.64
1409. 3690 10.3078 11.1692 9.64; 3691 10.2366 11.935 9.64; 3692 10.2227 5.91653 9.64
1410. 3693 9.89991 5.53726 9.64; 3694 10.2914 5.16078 9.64; 3695 9.51595 26.985 9.64
1411. 3696 9.9072 27.3683 9.64; 3697 10.3026 20.1982 9.64; 3698 10.3026 27.7518 9.64
1412. 3699 9.53305 8.925 9.64; 3700 10.2413 17.955 9.64; 3701 9.92429 17.5717 9.64
1413. 3702 10.3026 18.7218 9.64; 3703 9.51077 0.367519 9.64
1414. 3704 11.0258 35.6594 9.64; 3705 11.0168 25.8503 9.64; 3706 10.4243 35.656 9.64
1415. 3707 10.3148 2.95885 9.64; 3708 11.018 34.8905 9.64; 3709 11.016 25.103 9.64
1416. 3710 9.57876 22.0933 9.64; 3711 10.9206 21.3446 9.64; 3712 11.016 13.863 9.64
1417. 3713 9.57762 13.8093 9.64; 3714 11.0174 1.12257 9.64
1418. 3715 10.9206 8.54544 9.64; 3716 11.0138 1.92398 9.64
1419. 3717 9.57876 19.0833 9.64; 3718 10.8933 24.3546 9.64
1420. 3719 9.54215 14.5652 9.64; 3720 9.57876 16.0733 9.64; 3721 11.016 34.133 9.64
1421. 3722 11.0168 22.8403 9.64; 3723 10.3998 22.0939 9.64
1422. 3724 9.57765 22.8391 9.64; 3725 9.58675 35.6354 9.64
1423. 3726 9.58675 34.8858 9.64; 3727 10.2699 26.6019 9.64; 3728 9.5777 18.7992 9.64
1424. 3729 11.016 7.04301 9.64; 3730 11.0168 28.8603 9.64; 3731 9.57874 34.1333 9.64
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1436. 3756 11.0168 19.8303 9.64; 3757 11.016 19.083 9.64; 3758 11.016 28.113 9.64
1437. 3759 10.3991 28.8558 9.64; 3760 10.9359 2.95256 9.64
1438. 3761 11.0168 31.8703 9.64; 3762 10.9206 29.6154 9.64
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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

1439. 3763 10.9206 30.3746 9.64; 3764 10.9269 12.3146 9.64; 3765 9.5336 12.3148 9.64
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1442. 3771 10.3991 31.8658 9.64; 3772 9.57876 31.1233 9.64
1443. 3773 10.9115 0.364366 9.64; 3774 9.57769 25.8492 9.64
1444. 3775 9.54215 15.3248 9.64; 3776 10.9206 14.5654 9.64
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1451. 3791 9.54215 20.5852 9.64; 3792 10.2722 21.3481 9.64
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1489. 3890 9.16 17.2025 11.52; 3891 9.16 16.8263 11.52; 3892 9.16 16.0738 11.52
1490. 3893 9.16 15.6975 11.52; 3894 9.16 15.3212 11.52; 3895 9.16 14.945 11.52
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1494. 3905 9.16 10.8063 11.52; 3906 9.16 10.0538 11.52; 3907 9.16 9.6775 11.52

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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1498. 3917 9.16 5.53875 11.52; 3918 9.16 5.1625 11.52; 3919 9.16 4.78625 11.52
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1501. 3926 9.16 0.75 11.52; 3927 9.16 0.375 11.52; 3928 9.16 0 11.05
1502. 3929 9.16 0 10.58; 3930 9.16 0 10.11; 3931 9.16 4.41 11.05
1503. 3932 9.16 4.41 10.58; 3933 9.16 4.41 10.11; 3934 9.16 7.42 11.05
1504. 3935 9.16 7.42 10.58; 3936 9.16 7.42 10.11; 3937 9.16 10.43 11.05
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1507. 3944 9.16 16.45 10.58; 3945 9.16 16.45 10.11; 3946 9.16 19.46 11.05
1508. 3947 9.16 19.46 10.58; 3948 9.16 19.46 10.11; 3949 9.16 22.47 11.05
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1531. 4016 9.16 17.2067 11.0503; 4017 9.16 16.8401 10.58; 4018 9.16 17.2057 10.1096
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1533. 4021 9.16 15.6916 10.109; 4022 9.16 16.062 10.5797; 4023 9.16 5.915 11.05
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1538. 4036 9.16 24.7233 11.0504; 4037 9.16 18.3289 10.5799
1539. 4038 9.16 18.7041 10.1098; 4039 9.16 17.955 10.11; 4040 9.16 20.5913 10.5801
1540. 4041 9.16 20.2167 11.0503; 4042 9.16 20.965 11.05; 4043 9.16 21.7116 10.109
1541. 4044 9.16 14.1984 11.051; 4045 9.16 13.828 10.5803; 4046 9.16 14.1965 10.1097
1542. 4047 9.16 26.985 11.05; 4048 9.16 26.6113 10.5801; 4049 9.16 29.995 11.05
1543. 4050 9.16 29.6213 10.5801; 4051 9.16 29.2467 11.0503
1544. 4052 9.16 30.3688 10.5801; 4053 9.16 23.975 10.11; 4054 9.16 24.3487 10.5799
1545. 4055 9.16 24.7233 10.1097; 4056 9.16 33.7516 10.109; 4057 9.16 34.122 10.5797
1546. 4058 9.16 5.915 10.11; 4059 9.16 6.28878 10.5801; 4060 9.16 6.66161 10.109
1547. 4061 9.16 7.03199 10.5797; 4062 9.16 3.44 11.05; 4063 9.16 2.95759 10.58
1548. 4064 9.16 2.47259 11.05; 4065 9.16 8.17839 11.051; 4066 9.16 7.80881 10.5803
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V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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1552. 4076 9.16 27.7316 10.109; 4077 9.16 33.005 10.11; 4078 9.16 32.2565 10.1097
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1606. 4232 11.22 27.3612 11.52; 4233 11.22 26.985 11.52; 4234 11.22 26.6087 11.52
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1608. 4238 11.22 24.7275 11.52; 4239 11.22 24.3512 11.52; 4240 11.22 23.975 11.52
1609. 4241 11.22 23.5987 11.52; 4242 11.22 23.2225 11.52; 4243 11.22 22.8462 11.52
1610. 4244 11.22 22.0938 11.52; 4245 11.22 21.7175 11.52; 4246 11.22 21.3412 11.52
1611. 4247 11.22 20.965 11.52; 4248 11.22 20.5887 11.52; 4249 11.22 20.2125 11.52
1612. 4250 11.22 19.8362 11.52; 4251 11.22 19.4837 11.52; 4252 11.22 18.7075 11.52
1613. 4253 11.22 18.3312 11.52; 4254 11.22 17.955 11.52; 4255 11.22 17.5788 11.52
1614. 4256 11.22 17.2025 11.52; 4257 11.22 16.8263 11.52; 4258 11.22 16.0738 11.52
1615. 4259 11.22 15.6975 11.52; 4260 11.22 15.3212 11.52; 4261 11.22 14.945 11.52
1616. 4262 11.22 14.5688 11.52; 4263 11.22 14.1925 11.52; 4264 11.22 13.8162 11.52
1617. 4265 11.22 13.0637 11.52; 4266 11.22 12.6875 11.52; 4267 11.22 12.3112 11.52
1618. 4268 11.22 11.935 11.52; 4269 11.22 11.5588 11.52; 4270 11.22 11.1825 11.52
1619. 4271 11.22 10.8063 11.52; 4272 11.22 10.0538 11.52; 4273 11.22 9.6775 11.52
1620. 4274 11.22 9.30125 11.52; 4275 11.22 8.925 11.52; 4276 11.22 8.54875 11.52
1621. 4277 11.22 8.1725 11.52; 4278 11.22 7.79625 11.52; 4279 11.22 7.04375 11.52
1622. 4280 11.22 6.6675 11.52; 4281 11.22 6.29125 11.52; 4282 11.22 5.915 11.52
1623. 4283 11.22 5.53875 11.52; 4284 11.22 5.1625 11.52; 4285 11.22 4.78625 11.52
1624. 4286 11.22 3.925 11.52; 4287 11.22 3.44 11.52; 4288 11.22 2.955 11.52
1625. 4289 11.22 2.47 11.52; 4290 11.22 1.985 11.52; 4291 11.22 1.125 11.52
1626. 4292 11.22 0.75 11.52; 4293 11.22 0.375 11.52; 4294 11.22 0 11.05
1627. 4295 11.22 0 10.58; 4296 11.22 0 10.11; 4297 11.22 4.41 11.05
1628. 4298 11.22 4.41 10.58; 4299 11.22 4.41 10.11; 4300 11.22 7.42 11.05
1629. 4301 11.22 7.42 10.58; 4302 11.22 7.42 10.11; 4303 11.22 10.43 11.05
1630. 4304 11.22 10.43 10.58; 4305 11.22 10.43 10.11; 4306 11.22 13.44 11.05
1631. 4307 11.22 13.44 10.58; 4308 11.22 13.44 10.11; 4309 11.22 16.45 11.05
1632. 4310 11.22 16.45 10.58; 4311 11.22 16.45 10.11; 4312 11.22 19.46 11.05
1633. 4313 11.22 19.46 10.58; 4314 11.22 19.46 10.11; 4315 11.22 22.47 11.05
1634. 4316 11.22 22.47 10.58; 4317 11.22 22.47 10.11; 4318 11.22 25.48 11.05
1635. 4319 11.22 25.48 10.58; 4320 11.22 25.48 10.11; 4321 11.22 28.49 11.05
1636. 4322 11.22 28.49 10.58; 4323 11.22 28.49 10.11; 4324 11.22 31.5 11.05
1637. 4325 11.22 31.5 10.58; 4326 11.22 31.5 10.11; 4327 11.22 34.51 11.05
1638. 4328 11.22 34.51 10.58; 4329 11.22 34.51 10.11; 4330 11.22 35.3599 10.5817
1639. 4331 11.22 33.7488 10.58; 4332 11.22 33.005 10.58; 4333 11.22 32.2612 10.58
1640. 4334 11.22 30.7388 10.58; 4335 11.22 29.995 10.58; 4336 11.22 29.2512 10.58
1641. 4337 11.22 27.7288 10.58; 4338 11.22 26.985 10.58; 4339 11.22 26.2412 10.58
1642. 4340 11.22 24.7188 10.58; 4341 11.22 23.975 10.58; 4342 11.22 23.2312 10.58
1643. 4343 11.22 21.7088 10.58; 4344 11.22 20.965 10.58; 4345 11.22 20.2212 10.58
1644. 4346 11.22 18.6996 10.58; 4347 11.22 17.955 10.58; 4348 11.22 17.2112 10.58
1645. 4349 11.22 15.6888 10.58; 4350 11.22 14.945 10.58; 4351 11.22 14.2012 10.58
1646. 4352 11.22 12.6788 10.58; 4353 11.22 11.935 10.58; 4354 11.22 11.1912 10.58
1647. 4355 11.22 9.66883 10.58; 4356 11.22 8.925 10.58; 4357 11.22 8.18117 10.58
1648. 4358 11.22 6.65883 10.58; 4359 11.22 5.915 10.58; 4360 11.22 5.17117 10.58
1649. 4361 11.22 3.44 10.58; 4362 11.22 2.47517 10.58; 4363 11.22 1.54398 10.58
1650. 4364 11.22 0.777255 10.58; 4365 11.22 28.2367 11.0503
1651. 4366 11.22 25.8701 10.58; 4367 11.22 19.0718 10.58; 4368 11.22 18.7033 11.0504
1652. 4369 11.22 32.2584 11.051; 4370 11.22 31.888 10.5803
1653. 4371 11.22 8.17646 10.1097; 4372 11.22 8.55122 10.5799; 4373 11.22 8.925 10.11
1654. 4374 11.22 31.112 10.5797; 4375 11.22 30.7435 11.0503
1655. 4376 11.22 34.8869 10.5805; 4377 11.22 35.26 10.1023
1656. 4378 11.22 35.6322 10.5806; 4379 11.22 35.2601 11.0588
1657. 4380 11.22 17.955 11.05; 4381 11.22 17.5813 10.5801
1658. 4382 11.22 17.2067 11.0503; 4383 11.22 16.8401 10.58
1659. 4384 11.22 17.2067 10.1096; 4385 11.22 0.765212 10.109
1660. 4386 11.22 0.399277 10.5799; 4387 11.22 15.6916 10.109
1661. 4388 11.22 16.062 10.5797; 4389 11.22 5.915 11.05; 4390 11.22 5.54129 10.5801
1662. 4391 11.22 5.16671 11.0503; 4392 11.22 4.80012 10.58

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 GAURAV V - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.

1663. 4393 11.22 5.16668 10.1096; 4394 11.22 14.945 10.11
1664. 4395 11.22 15.3188 10.5801; 4396 11.22 33.7535 11.0503
1665. 4397 11.22 33.3788 10.5801; 4398 11.22 33.005 11.05; 4399 11.22 22.082 10.5797
1666. 4400 11.22 21.7135 11.0503; 4401 11.22 25.0899 10.58
1667. 4402 11.22 24.7233 11.0504; 4403 11.22 18.3289 10.5799
1668. 4404 11.22 18.7041 10.1098; 4405 11.22 17.955 10.11
1669. 4406 11.22 20.5913 10.5801; 4407 11.22 20.2167 11.0503
1670. 4408 11.22 28.955 11.05; 4409 11.22 21.7116 10.109; 4410 11.22 14.1984 11.051
1671. 4411 11.22 13.828 10.5803; 4412 11.22 14.1965 10.1097; 4413 11.22 26.985 11.05
1672. 4414 11.22 26.6113 10.5801; 4415 11.22 29.995 11.05
1673. 4416 11.22 29.6213 10.5801; 4417 11.22 29.2467 11.0503
1674. 4418 11.22 30.3688 10.5801; 4419 11.22 23.975 10.11
1675. 4420 11.22 24.3487 10.5799; 4421 11.22 24.7233 10.1097
1676. 4422 11.22 33.7516 10.109; 4423 11.22 34.122 10.5797; 4424 11.22 5.915 10.11
1677. 4425 11.22 6.28878 10.5801; 4426 11.22 6.66161 10.109
1678. 4427 11.22 7.03199 10.5797; 4428 11.22 3.44 11.05; 4429 11.22 2.95759 10.58
1679. 4430 11.22 2.47259 11.05; 4431 11.22 8.17839 11.051
1680. 4432 11.22 7.80001 10.5803; 4433 11.22 6.66354 11.0503
1681. 4434 11.22 28.8801 10.58; 4435 11.22 29.2467 10.1096; 4436 11.22 10.0399 10.58
1682. 4437 11.22 9.67332 11.0504; 4438 11.22 28.102 10.5797
1683. 4439 11.22 27.7335 11.0503; 4440 11.22 26.985 10.11
1684. 4441 11.22 27.3588 10.5801; 4442 11.22 27.7316 10.109; 4443 11.22 33.005 10.11
1685. 4444 11.22 32.2565 10.1097; 4445 11.22 32.6312 10.5799
1686. 4446 11.22 3.92881 10.58; 4447 11.22 11.1884 11.051; 4448 11.22 10.818 10.5803
1687. 4449 11.22 1.99696 10.58; 4450 11.22 1.52199 11.05; 4451 11.22 23.975 11.05
1688. 4452 11.22 23.6813 10.5801; 4453 11.22 23.2267 11.0503
1689. 4454 11.22 22.8601 10.58; 4455 11.22 23.2267 10.1096; 4456 11.22 14.945 11.05
1690. 4457 11.22 14.5712 10.5799; 4458 11.22 26.2367 10.1096
1691. 4459 11.22 8.764573 11.0506; 4460 11.22 11.1865 10.1097
1692. 4461 11.22 12.6816 10.109; 4462 11.22 13.052 10.5797
1693. 4463 11.22 11.5612 10.5799; 4464 11.22 11.935 10.11; 4465 11.22 11.935 11.05
1694. 4466 11.22 12.3088 10.5801; 4467 11.22 12.6835 11.0503
1695. 4468 11.22 9.29871 10.5799; 4469 11.22 8.925 11.05; 4470 11.22 30.7416 10.109
1696. 4471 11.22 9.67329 10.1097; 4472 11.22 21.3388 10.5801
1697. 4473 11.22 20.965 10.11; 4474 11.22 1.1506 10.58; 4475 11.22 1.52199 10.11
1698. 4476 11.22 19.8501 10.58; 4477 11.22 20.2167 10.1096; 4478 11.22 2.47259 10.11
1699. 4479 11.22 3.44 10.11; 4480 11.22 15.6935 11.0503; 4481 11.22 29.995 10.11
1700. 4482 11.22 25.8634 11.0508; 4483 11.22 19.077 11.0508
1701. 4484 11.22 31.8845 11.0522; 4485 11.22 8.54875 10.11
1702. 4486 11.22 31.117 11.0508; 4487 11.22 34.8883 10.1035
1703. 4488 11.22 35.6322 11.057; 4489 11.22 17.5788 11.05; 4490 11.22 16.833 10.1092
1704. 4491 11.22 0.390137 10.1083; 4492 11.22 16.0655 10.1078
1705. 4493 11.22 5.53875 11.05; 4494 11.22 4.79296 10.1092
1706. 4495 11.22 15.3202 10.1098; 4496 11.22 33.3812 11.05
1707. 4497 11.22 22.087 11.0508; 4498 11.22 25.097 11.0508; 4499 11.22 18.3312 10.11
1708. 4500 11.22 20.5887 11.05; 4501 11.22 22.0855 10.1078
1709. 4502 11.22 35.6315 10.1035; 4503 11.22 13.8245 11.0522
1710. 4504 11.22 13.823 10.1092; 4505 11.22 26.6087 11.05; 4506 11.22 29.6187 11.05
1711. 4507 11.22 30.3713 11.05; 4508 11.22 24.3512 10.11; 4509 11.22 34.1255 10.1078
1712. 4510 11.22 25.0966 10.1092; 4511 11.22 6.29024 10.1098
1713. 4512 11.22 7.03553 10.1078; 4513 11.22 2.95629 11.05
1714. 4514 11.22 7.80447 11.0522; 4515 11.22 7.03702 11.0508
1715. 4516 11.22 28.873 10.1092; 4517 11.22 10.047 11.0508
1716. 4518 11.22 28.107 11.0508; 4519 11.22 27.3602 10.1098
1717. 4520 11.22 34.127 11.0508; 4521 11.22 32.6287 10.11; 4522 11.22 3.92595 11.05
1718. 4523 11.22 10.8145 11.0522; 4524 11.22 16.8334 11.0508

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: 9841268154

1719. 4525 11.22 1.99106 11.0505; 4526 11.22 23.5987 11.05
1720. 4527 11.22 22.853 10.1092; 4528 11.22 14.5698 11.0502
1721. 4529 11.22 25.863 10.1092; 4530 11.22 0.388161 11.0503
1722. 4531 11.22 26.6087 10.11; 4532 11.22 10.813 10.1091
1723. 4533 11.22 13.0555 10.1078; 4534 11.22 11.5588 10.11
1724. 4535 11.22 11.5598 11.0502; 4536 11.22 12.3112 11.05; 4537 11.22 9.30125 11.05
1725. 4538 11.22 31.1155 10.1078; 4539 11.22 10.0466 10.1092
1726. 4540 11.22 11.3402 10.1098; 4541 11.22 1.14013 11.0504
1727. 4542 11.22 1.14013 10.1096; 4543 11.22 9.30125 10.11
1728. 4544 11.22 19.843 10.1092; 4545 11.22 3.95629 10.11; 4546 11.22 16.067 11.050
1729. 4547 11.22 28.8734 11.0508; 4548 11.22 28.1055 10.1078
1730. 4549 11.22 27.3612 11.05; 4550 11.22 22.8534 11.0508
1731. 4551 11.22 31.883 10.1092; 4552 11.22 4.79341 11.0508
1732. 4553 11.22 32.6298 11.0502; 4554 11.22 6.29125 11.05
1733. 4555 11.22 7.80298 10.1092; 4556 11.22 3.92595 10.11
1734. 4557 11.22 19.0766 10.1092; 4558 11.22 13.057 11.0508
1735. 4559 11.22 17.5788 10.11; 4560 11.22 19.8434 11.0508; 4561 11.22 15.3212 11.05
1736. 4562 11.22 23.5987 10.11; 4563 11.22 12.3102 10.1098
1737. 4564 11.22 33.3802 10.1098; 4565 11.22 21.3412 11.05; 4566 11.22 24.3512 11.05
1738. 4567 11.22 30.3702 10.1098; 4568 11.22 29.6187 10.11; 4569 11.22 5.53875 10.11
1739. 4570 11.22 18.3303 11.0502; 4571 11.22 14.5688 10.11
1740. 4572 11.22 1.99106 10.1095; 4573 11.22 34.8881 11.0573
1741. 4574 11.22 20.5887 10.11; 4575 11.22 8.54976 11.0502; 4576 11.22 4.41 7.76
1742. 4577 7.63 7.42 9.64; 4578 8.51 7.42 14.96; 4579 5.76 7.42 11.52
1743. 4580 7.87 7.42 11.52; 4582 7.63 10.43 9.64; 4583 8.51 10.43 14.96
1744. 4584 5.76 10.43 11.52; 4585 7.87 10.43 11.52; 4587 7.63 13.44 9.64
1745. 4588 8.51 13.44 14.96; 4589 5.76 13.44 11.52; 4590 7.87 13.44 11.52
1746. 4592 7.63 16.45 9.64; 4593 8.51 16.45 14.96; 4594 5.76 16.45 11.52
1747. 4595 7.87 16.45 11.52; 4597 7.63 19.46 9.64; 4598 8.51 19.46 14.96
1748. 4599 5.76 19.46 11.52; 4600 7.87 19.46 11.52; 4602 7.63 22.47 9.64
1749. 4603 8.51 22.47 14.96; 4604 5.76 22.47 11.52; 4605 7.87 22.47 11.52
1750. 4607 7.63 25.48 9.64; 4608 8.51 25.48 14.96; 4609 5.76 25.48 11.52
1751. 4610 7.87 25.48 11.52; 4611 7.63 28.49 9.64; 4613 8.51 28.49 14.96
1752. 4614 5.76 28.49 11.52; 4615 7.87 28.49 11.52; 4617 7.63 31.5 9.64
1753. 4618 8.51 31.5 14.96; 4619 5.76 31.5 11.52; 4620 7.87 31.5 11.52
1754. 4622 5.76 4.41 11.52; 4623 7.87 4.41 11.52; 4625 4.58 7.42 7.87
1755. 4626 7.63 7.42 7.87; 4627 11.45 7.42 16.69; 4628 8.51 7.42 16.69
1756. 4629 4.58 10.43 7.87; 4630 7.63 10.43 7.87; 4631 11.45 10.43 16.69
1757. 4632 8.51 10.43 16.69; 4633 4.58 13.44 7.87; 4634 7.63 13.44 7.87
1758. 4635 11.45 13.44 16.69; 4636 8.51 13.44 16.69; 4637 4.58 16.45 7.87
1759. 4638 7.63 16.45 7.87; 4639 11.45 16.45 16.69; 4640 8.51 16.45 16.69
1760. 4641 4.58 19.46 7.87; 4642 7.63 19.46 7.87; 4643 11.45 19.46 16.69
1761. 4644 8.51 19.46 16.69; 4645 4.58 22.47 7.87; 4646 7.63 22.47 7.87
1762. 4647 11.45 22.47 16.69; 4648 8.51 22.47 16.69; 4649 4.58 25.48 7.87
1763. 4650 7.63 25.48 7.87; 4651 11.45 25.48 16.69; 4652 8.51 25.48 16.69
1764. 4653 4.58 28.49 7.87; 4654 7.63 28.49 7.87; 4655 11.45 28.49 16.69
1765. 4656 8.51 28.49 16.69; 4657 4.58 31.5 7.87; 4658 7.63 31.5 7.87
1766. 4659 11.45 31.5 16.69; 4660 8.51 31.5 16.69; 4661 0.23 1.5 19.86
1767. 4662 16.02 1.5 19.86; 4663 16.02 1.5 5.7; 4664 4.58 1.5 0.23; 4665 0.23 1.5 6
1768. 4666 7.87 4.41 11.825; 4667 5.76 4.41 11.825; 4668 6.95 4.41 11.825
1769. 4669 5.76 7.42 11.825; 4670 7.87 7.42 11.825; 4671 6.95 7.42 11.825
1770. 4672 5.76 10.43 11.825; 4673 6.95 25.48 11.825; 4674 7.87 22.47 11.825
1771. 4675 7.87 19.46 11.825; 4676 7.87 16.45 11.825; 4677 5.76 19.46 11.825
1772. 4678 5.76 16.45 11.825; 4679 7.87 31.5 11.825; 4680 6.95 16.45 11.825
1773. 4681 5.76 22.47 11.825; 4682 6.95 10.43 11.825; 4683 7.87 28.49 11.825
1774. 4684 6.95 22.47 11.825; 4685 5.76 13.44 11.825; 4686 5.76 25.48 11.825

V. JAGEN, BE ME (Struct), MIE AIV
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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1775. 4687 7.87 13.44 11.825; 4688 6.95 13.44 11.825; 4689 6.95 19.46 11.825
1776. 4690 7.87 25.48 11.825; 4691 5.76 28.49 11.825; 4692 6.95 28.49 11.825
1777. 4693 7.87 10.43 11.825; 4694 5.76 31.5 11.825; 4695 6.95 31.5 11.825
1778. 4696 8.51 4.41 14.96; 4697 11.45 4.41 16.69; 4698 8.51 4.41 16.69
1779. MEMBER INCIDENCES
1780. 1 1 36; 2 2 37; 3 3 38; 4 4 39; 5 5 40; 6 6 41; 7 7 42; 8 8 43; 9 9 44
1781. 10 10 45; 11 11 46; 12 12 47; 13 13 48; 18 18 53; 19 19 54; 24 24 59; 25 25 60
1782. 26 26 61; 27 27 62; 28 28 63; 29 29 64; 30 30 65; 31 31 66; 32 32 67; 33 33 68
1783. 34 34 69; 35 35 70; 36 36 71; 37 37 72; 38 38 73; 39 39 74; 40 40 75; 41 41 76
1784. 42 42 77; 43 43 78; 44 44 79; 45 45 80; 46 46 81; 47 47 82; 48 48 83; 53 53 88
1785. 54 54 89; 59 59 94; 60 60 95; 61 61 96; 62 62 97; 63 63 98; 64 64 99
1786. 65 65 100; 66 66 101; 67 67 102; 68 68 103; 69 69 104; 70 70 105; 71 71 106
1787. 72 72 107; 73 73 108; 74 74 109; 75 75 110; 76 76 111; 77 77 112; 78 78 113
1788. 79 79 114; 80 80 115; 81 81 116; 82 82 117; 83 83 118; 88 88 123; 89 89 124
1789. 94 94 129; 95 95 130; 96 96 131; 97 97 132; 98 98 133; 99 99 134; 100 100 135
1790. 101 101 136; 102 102 137; 103 103 138; 104 104 139; 105 105 140; 106 71 72
1791. 107 72 141; 108 141 142; 109 142 143; 110 79 170; 111 79 153; 112 76 150
1792. 113 73 141; 114 77 147; 115 74 142; 116 78 144; 117 75 143; 118 144 75
1793. 119 77 165; 120 80 145; 121 145 149; 123 146 73; 124 147 74; 125 146 147
1794. 126 148 71; 127 148 154; 128 149 72; 129 150 146; 130 149 150; 131 82 157
1795. 132 83 206; 134 81 159; 136 151 81; 137 152 82; 138 152 79; 139 83 80
1796. 140 153 158; 141 154 156; 142 153 171; 143 155 80; 144 156 145; 145 155 156
1797. 146 157 83; 147 158 155; 148 157 158; 149 159 162; 150 80 169; 151 87 88
1798. 152 86 87; 154 88 160; 155 160 161; 157 161 78; 158 81 4576; 159 162 77
1799. 160 162 164; 161 163 166; 162 164 167; 163 163 164; 164 165 168; 165 164 165
1800. 166 166 161; 167 167 78; 168 166 167; 169 168 144; 170 167 168; 171 169 159
1801. 172 169 76; 173 170 148; 174 171 154; 175 170 171; 176 89 90; 179 93 209
1802. 181 172 89; 182 89 82; 183 93 4696; 184 94 201; 185 95 88; 186 95 173
1803. 187 174 98; 188 175 101; 189 175 182; 190 174 188; 191 101 102; 192 102 192
1804. 193 99 183; 194 103 104; 195 104 105; 196 97 176; 197 105 177; 198 177 181
1805. 199 176 173; 200 96 197; 201 104 180; 202 96 4697; 203 103 193; 204 178 189
1806. 207 100 179; 208 180 96; 209 100 180; 210 181 203; 211 100 196; 212 182 174
1807. 213 182 184; 214 183 178; 215 98 185; 216 184 186; 217 185 187; 218 184 185
1808. 219 186 99; 220 187 183; 221 186 187; 222 188 172; 223 189 92; 224 188 190
1809. 225 190 191; 226 185 190; 227 191 189; 228 187 191; 229 192 194; 230 193 195
1810. 231 192 193; 232 194 99; 233 195 100; 234 194 195; 235 196 198; 236 197 200
1811. 237 196 197; 238 198 181; 239 199 97; 240 198 202; 241 200 199; 242 201 95
1812. 243 100 201; 244 202 199; 245 203 176; 246 202 203; 247 204 94; 248 204 87
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1816. 274 110 217; 275 218 110; 276 112 239; 277 115 219; 278 219 223; 279 220 108
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1818. 286 223 224; 287 117 231; 288 118 280; 290 116 233; 292 225 116; 293 226 117
1819. 294 226 114; 295 118 4625; 296 227 232; 297 228 230; 298 227 245; 299 229 115
1820. 300 230 219; 301 229 230; 302 231 118; 303 232 229; 304 231 232; 305 233 236
1821. 307 122 123; 308 121 122; 310 123 234; 311 234 235; 313 235 113; 314 116 237
1822. 315 236 112; 316 236 238; 317 237 140; 318 238 241; 319 237 238; 320 239 242
1823. 321 238 239; 322 240 235; 323 241 113; 324 240 241; 325 242 218; 326 241 242
1824. 329 244 222; 330 245 228; 331 244 245; 332 124 125; 335 128 283; 337 246 124
1825. 338 124 117; 339 128 4578; 340 129 275; 341 130 123; 342 130 247; 343 248 133
1826. 344 249 136; 345 249 256; 346 248 262; 347 136 137; 348 137 266; 349 134 257
1827. 350 138 139; 351 139 140; 352 132 250; 353 140 251; 354 251 255; 355 250 247
1828. 356 131 271; 357 139 254; 358 131 4627; 359 138 267; 360 252 263; 364 254 131
1829. 365 135 254; 366 255 277; 367 254 270; 368 256 248; 369 256 258; 370 257 252
1830. 371 133 259; 372 258 260; 373 259 261; 374 258 259; 375 260 134; 376 261 257
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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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1831. 377 260 261; 378 262 246; 379 263 127; 380 262 264; 381 264 265; 382 259 264
1832. 383 265 263; 384 261 265; 385 266 268; 386 267 269; 387 266 267; 388 268 134
1833. 389 269 135; 390 268 269; 391 270 272; 392 271 274; 393 270 271; 394 272 255
1834. 395 273 132; 396 272 276; 397 274 273; 398 275 130; 399 274 275; 400 276 273
1835. 401 277 250; 402 276 277; 403 278 129; 404 278 122; 406 280 4577; 407 279 4669
1836. 408 281 278; 409 283 126; 410 283 282; 411 281 282; 414 288 4579; 419 106 289
1837. 420 107 290; 421 108 291; 422 109 292; 423 110 293; 424 111 294; 425 112 295
1838. 426 113 296; 427 114 297; 428 115 298; 429 116 299; 430 117 300; 431 118 301
1839. 436 123 306; 437 124 307; 442 129 312; 443 130 313; 444 131 314; 445 132 315
1840. 446 133 316; 447 134 317; 448 135 318; 449 136 319; 450 137 320; 451 138 321
1841. 452 139 322; 453 140 323; 454 289 290; 455 290 324; 456 324 325; 457 325 326
1842. 458 297 352; 459 297 336; 460 294 333; 461 291 324; 462 295 330; 463 292 325
1843. 464 296 327; 465 293 326; 466 327 293; 467 295 348; 468 298 328; 469 328 332
1844. 470 329 291; 471 330 292; 472 329 330; 473 331 289; 474 331 337; 475 332 290
1845. 476 333 329; 477 332 333; 478 300 340; 479 301 387; 481 299 342; 483 334 299
1846. 484 335 300; 485 335 297; 486 301 4629; 487 336 341; 488 337 339; 489 336 353
1847. 490 338 298; 491 339 328; 492 338 339; 493 340 301; 494 341 338; 495 340 341
1848. 496 342 345; 497 305 306; 498 304 305; 500 306 343; 501 343 344; 503 344 296
1849. 504 299 346; 505 345 295; 506 345 347; 507 346 349; 508 347 350; 509 346 347
1850. 510 348 351; 511 347 348; 512 349 344; 513 350 296; 514 349 350; 515 351 327
1851. 516 350 351; 517 352 331; 518 353 337; 519 352 353; 520 307 308; 523 311 390
1852. 525 354 307; 526 307 308; 527 311 4583; 528 312 382; 529 313 386; 530 313 355
1853. 531 356 316; 532 357 319; 533 357 363; 534 356 369; 535 319 320; 536 320 373
1854. 537 317 364; 538 321 322; 539 322 323; 540 315 358; 541 323 359; 542 359 362
1855. 543 358 355; 544 314 378; 545 322 361; 546 314 4631; 547 321 374; 548 360 370
1856. 549 361 314; 550 318 361; 551 362 384; 552 361 377; 553 363 356; 554 363 365
1857. 555 364 360; 556 316 366; 557 365 367; 558 366 368; 559 365 366; 560 367 317
1858. 561 368 364; 562 367 368; 563 369 354; 564 370 310; 565 369 371; 566 371 372
1859. 567 366 371; 568 372 370; 569 368 372; 570 373 375; 571 374 376; 572 373 374
1860. 573 375 317; 574 376 318; 575 375 376; 576 377 379; 577 378 381; 578 377 378
1861. 579 379 362; 580 380 315; 581 379 383; 582 381 380; 583 382 313; 584 381 382
1862. 585 383 380; 586 384 358; 587 383 384; 588 385 312; 589 385 305; 591 387 4582
1863. 592 386 4672; 593 388 385; 594 390 309; 595 390 389; 596 388 389; 599 395 4584
1864. 604 289 396; 605 290 397; 606 291 398; 607 292 399; 608 293 400; 609 294 401
1865. 610 295 402; 611 296 403; 612 297 404; 613 298 405; 614 299 406; 615 300 407
1866. 616 301 408; 621 306 413; 622 307 414; 627 312 419; 628 313 420; 629 314 421
1867. 630 315 422; 631 316 423; 632 317 424; 633 318 425; 634 319 426; 635 320 427
1868. 636 321 428; 637 322 429; 638 323 430; 639 396 397; 640 397 431; 641 431 432
1869. 642 432 433; 643 404 459; 644 404 443; 645 401 440; 646 398 431; 647 402 437
1870. 648 399 432; 649 403 434; 650 400 433; 651 434 400; 652 402 455; 653 405 435
1871. 654 435 439; 655 436 398; 656 437 399; 657 436 437; 658 438 396; 659 438 444
1872. 660 439 397; 661 440 436; 662 439 440; 663 407 447; 664 408 494; 666 406 449
1873. 668 441 406; 669 442 407; 670 442 404; 671 408 4633; 672 443 448; 673 444 446
1874. 674 443 460; 675 445 405; 676 446 435; 677 445 446; 678 447 408; 679 448 445
1875. 680 447 448; 681 449 452; 682 412 413; 683 411 412; 685 413 450; 686 450 451
1876. 688 451 483; 689 406 453; 690 452 402; 691 452 454; 692 453 456; 693 454 457
1877. 694 453 454; 695 455 458; 696 454 455; 697 456 451; 698 457 483; 699 456 457
1878. 700 458 434; 701 457 458; 702 459 438; 703 460 444; 704 459 460; 705 414 415
1879. 708 418 497; 710 461 414; 711 414 497; 712 418 4588; 713 419 489; 714 420 413
1880. 715 420 462; 716 463 423; 717 464 426; 718 464 470; 719 463 476; 720 426 427
1881. 721 427 480; 722 424 471; 723 428 429; 724 429 430; 725 422 465; 726 430 466
1882. 727 466 469; 728 465 462; 729 421 485; 730 429 468; 731 421 4635; 732 428 481
1883. 733 467 477; 734 468 421; 735 425 468; 736 469 491; 737 468 484; 738 470 483
1884. 739 470 472; 740 471 467; 741 423 473; 742 472 474; 743 473 475; 744 472 473
1885. 745 474 424; 746 475 471; 747 474 475; 748 476 461; 749 477 417; 750 476 478
1886. 751 478 479; 752 473 478; 753 479 477; 754 475 479; 755 480 482; 756 483 483
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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 GAURAV V - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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1887. 757 480 481; 758 482 424; 759 483 425; 760 482 483; 761 484 486; 762 485 488
1888. 763 484 485; 764 486 469; 765 487 422; 766 486 490; 767 488 487; 768 489 420
1889. 769 488 489; 770 490 487; 771 491 465; 772 490 491; 773 492 419; 774 492 412
1890. 776 494 4587; 777 493 4685; 778 495 492; 779 497 416; 780 497 496; 781 495 496
1891. 784 502 4589; 789 396 503; 790 397 504; 791 398 505; 792 399 506; 793 400 507
1892. 794 401 508; 795 402 509; 796 403 510; 797 404 511; 798 405 512; 799 406 513
1893. 800 407 514; 801 408 515; 806 413 520; 807 414 521; 812 419 526; 813 420 527
1894. 814 421 528; 815 422 529; 816 423 530; 817 424 531; 818 425 532; 819 426 533
1895. 820 427 534; 821 428 535; 822 429 536; 823 430 537; 824 503 504; 825 504 538
1896. 826 538 539; 827 539 540; 828 511 566; 829 511 550; 830 508 547; 831 505 538
1897. 832 509 544; 833 506 539; 834 510 541; 835 507 540; 836 541 507; 837 509 562
1898. 838 512 542; 839 542 546; 840 543 505; 841 544 506; 842 543 544; 843 545 503
1899. 844 545 551; 845 546 504; 846 547 543; 847 548 547; 848 514 554; 849 515 601
1900. 851 513 556; 853 548 513; 854 549 514; 855 549 511; 856 515 4637; 857 550 555
1901. 858 551 553; 859 550 567; 860 552 512; 861 553 542; 862 552 553; 863 554 515
1902. 864 555 552; 865 554 555; 866 556 559; 867 519 520; 868 518 519; 870 520 557
1903. 871 557 558; 873 558 510; 874 513 560; 875 559 509; 876 559 561; 877 560 563
1904. 878 561 564; 879 560 561; 880 562 565; 881 561 562; 882 563 558; 883 564 510
1905. 884 563 564; 885 565 541; 886 564 565; 887 566 545; 888 567 551; 889 566 567
1906. 890 521 522; 893 525 604; 895 568 521; 896 521 514; 897 525 4593; 898 526 596
1907. 899 527 520; 900 527 569; 901 570 530; 902 571 533; 903 571 577; 904 570 583
1908. 905 533 534; 906 534 587; 907 531 578; 908 535 536; 909 536 537; 910 529 572
1909. 911 537 573; 912 573 576; 913 572 569; 914 528 592; 915 536 575; 916 528 4639
1910. 917 535 588; 918 574 584; 919 575 528; 920 532 575; 921 576 598; 922 575 591
1911. 923 577 570; 924 577 579; 925 578 574; 926 530 580; 927 579 581; 928 580 582
1912. 929 579 580; 930 581 531; 931 582 578; 932 581 582; 933 583 568; 934 584 524
1913. 935 583 585; 936 585 586; 937 580 585; 938 586 584; 939 582 586; 940 587 589
1914. 941 588 590; 942 587 588; 943 589 531; 944 590 532; 945 589 590; 946 591 593
1915. 947 592 595; 948 591 592; 949 593 576; 950 594 529; 951 593 597; 952 595 594
1916. 953 596 527; 954 595 596; 955 597 594; 956 598 572; 957 597 598; 958 599 526
1917. 959 599 519; 961 601 4592; 962 600 4678; 963 602 599; 964 604 523; 965 604 603
1918. 966 602 603; 969 609 4594; 974 503 610; 975 504 611; 976 505 612; 977 506 613
1919. 978 507 614; 979 508 615; 980 509 616; 981 510 617; 982 511 618; 983 512 619
1920. 984 513 620; 985 514 621; 986 515 622; 991 520 627; 992 521 628; 997 526 633
1921. 998 527 634; 999 528 635; 1000 529 636; 1001 530 637; 1002 531 638
1922. 1003 532 639; 1004 533 640; 1005 534 641; 1006 535 642; 1007 536 643
1923. 1008 537 644; 1009 610 611; 1010 611 645; 1011 645 646; 1012 646 647
1924. 1013 618 673; 1014 618 657; 1015 615 654; 1016 612 645; 1017 616 651
1925. 1018 613 646; 1019 617 648; 1020 614 647; 1021 648 614; 1022 616 669
1926. 1023 619 649; 1024 649 653; 1025 650 612; 1026 651 613; 1027 650 651
1927. 1028 652 610; 1029 652 658; 1030 653 611; 1031 654 650; 1032 653 654
1928. 1033 621 661; 1034 622 708; 1036 620 663; 1038 655 620; 1039 656 621
1929. 1040 656 618; 1041 622 4641; 1042 657 662; 1043 658 660; 1044 657 674
1930. 1045 659 619; 1046 660 649; 1047 659 660; 1048 661 622; 1049 662 659
1931. 1050 661 662; 1051 663 666; 1052 626 627; 1053 625 626; 1055 627 664
1932. 1056 664 665; 1058 665 617; 1059 620 667; 1060 666 616; 1061 666 668
1933. 1062 667 670; 1063 668 671; 1064 667 668; 1065 669 672; 1066 668 669
1934. 1067 670 665; 1068 671 617; 1069 670 671; 1070 672 648; 1071 671 672
1935. 1072 673 652; 1073 674 658; 1074 673 674; 1075 628 629; 1078 632 711
1936. 1080 675 628; 1081 628 621; 1082 632 4598; 1083 633 703; 1084 634 627
1937. 1085 634 676; 1086 677 637; 1087 678 640; 1088 678 684; 1089 677 690
1938. 1090 640 641; 1091 641 694; 1092 638 685; 1093 642 643; 1094 643 644
1939. 1095 636 679; 1096 644 688; 1097 680 683; 1098 679 676; 1099 635 699
1940. 1100 643 682; 1101 635 4643; 1102 642 695; 1103 681 691; 1104 682 635
1941. 1105 639 682; 1106 683 705; 1107 682 698; 1108 684 677; 1109 684 686
1942. 1110 685 681; 1111 637 687; 1112 686 688; 1113 687 689; 1114 686 687
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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.

1943. 1115 688 638; 1116 689 685; 1117 688 689; 1118 690 675; 1119 691 631
1944. 1120 690 692; 1121 692 693; 1122 687 692; 1123 693 691; 1124 689 693
1945. 1125 694 696; 1126 695 697; 1127 694 695; 1128 696 638; 1129 697 639
1946. 1130 696 697; 1131 698 700; 1132 699 702; 1133 698 699; 1134 700 683
1947. 1135 701 636; 1136 700 704; 1137 702 701; 1138 703 634; 1139 702 703
1948. 1140 704 701; 1141 705 679; 1142 704 705; 1143 706 633; 1144 706 626
1949. 1146 708 4597; 1147 707 4677; 1148 709 706; 1149 711 630; 1150 711 710
1950. 1151 709 710; 1154 716 4599; 1159 610 717; 1160 611 718; 1161 612 719
1951. 1162 613 720; 1163 614 721; 1164 615 722; 1165 616 723; 1166 617 724
1952. 1167 618 725; 1168 619 726; 1169 620 727; 1170 621 728; 1171 622 729
1953. 1176 627 734; 1177 628 735; 1182 633 740; 1183 634 741; 1184 635 742
1954. 1185 636 743; 1186 637 744; 1187 638 745; 1188 639 746; 1189 640 747
1955. 1190 641 748; 1191 642 749; 1192 643 750; 1193 644 751; 1194 717 718
1956. 1195 718 752; 1196 752 753; 1197 753 754; 1198 725 788; 1199 725 764
1957. 1200 722 761; 1201 719 752; 1202 723 758; 1203 720 753; 1204 724 755
1958. 1205 721 754; 1206 755 721; 1207 723 776; 1208 726 756; 1209 756 760
1959. 1210 757 719; 1211 758 720; 1212 757 758; 1213 759 717; 1214 759 765
1960. 1215 760 718; 1216 761 757; 1217 760 761; 1218 728 768; 1219 729 815
1961. 1221 727 770; 1223 762 727; 1224 763 728; 1225 763 725; 1226 729 4645
1962. 1227 764 769; 1228 765 767; 1229 764 781; 1230 766 726; 1231 767 756
1963. 1232 766 767; 1233 768 729; 1234 769 766; 1235 768 769; 1236 770 773
1964. 1237 733 734; 1238 732 733; 1240 734 771; 1241 771 772; 1243 772 724
1965. 1244 727 774; 1245 773 723; 1246 773 775; 1247 774 777; 1248 775 778
1966. 1249 774 775; 1250 776 779; 1251 775 776; 1252 777 772; 1253 778 724
1967. 1254 777 778; 1255 779 755; 1256 778 779; 1257 780 759; 1258 781 765
1968. 1259 780 781; 1260 735 736; 1263 739 818; 1265 782 735; 1266 735 728
1969. 1267 739 4603; 1268 740 810; 1269 741 784; 1270 741 783; 1271 784 744
1970. 1272 785 747; 1273 785 791; 1274 784 797; 1275 747 748; 1276 748 801
1971. 1277 745 792; 1278 749 750; 1279 750 751; 1280 743 786; 1281 751 787
1972. 1282 787 790; 1283 786 783; 1284 742 806; 1285 750 789; 1286 742 4647
1973. 1287 749 802; 1288 788 798; 1289 789 742; 1290 746 789; 1291 790 812
1974. 1292 789 805; 1293 791 784; 1294 791 793; 1295 792 788; 1296 744 794
1975. 1297 793 795; 1298 794 796; 1299 793 794; 1300 795 745; 1301 796 792
1976. 1302 795 796; 1303 797 782; 1304 798 738; 1305 797 799; 1306 799 800
1977. 1307 794 799; 1308 800 798; 1309 796 800; 1310 801 803; 1311 802 804
1978. 1312 801 802; 1313 803 745; 1314 804 746; 1315 803 804; 1316 805 807
1979. 1317 806 809; 1318 805 806; 1319 807 790; 1320 808 743; 1321 807 811
1980. 1322 809 808; 1323 810 741; 1324 809 810; 1325 811 808; 1326 812 786
1981. 1327 811 812; 1328 813 740; 1329 813 733; 1331 815 4602; 1332 814 4681
1982. 1333 816 813; 1334 818 737; 1335 818 817; 1336 816 817; 1339 823 4604
1983. 1344 717 824; 1345 718 825; 1346 719 826; 1347 720 827; 1348 721 828
1984. 1349 722 829; 1350 723 830; 1351 724 831; 1352 725 832; 1353 726 833
1985. 1354 727 834; 1355 728 835; 1356 729 836; 1361 734 841; 1362 735 842
1986. 1367 740 847; 1368 741 848; 1369 742 849; 1370 743 850; 1371 744 851
1987. 1372 745 852; 1373 746 853; 1374 747 854; 1375 748 855; 1376 749 856
1988. 1377 750 857; 1378 751 858; 1379 824 825; 1380 825 859; 1381 859 860
1989. 1382 860 861; 1383 832 887; 1384 832 871; 1385 829 868; 1386 826 859
1990. 1387 830 865; 1388 827 860; 1389 831 862; 1390 828 861; 1391 862 828
1991. 1392 830 883; 1393 833 863; 1394 863 867; 1395 864 826; 1396 865 827
1992. 1397 864 865; 1398 866 824; 1399 866 872; 1400 867 825; 1401 868 864
1993. 1402 867 868; 1403 835 875; 1404 836 922; 1406 834 877; 1408 869 834
1994. 1409 870 835; 1410 870 832; 1411 836 4649; 1412 871 876; 1413 872 874
1995. 1414 871 888; 1415 873 833; 1416 874 863; 1417 873 874; 1418 875 836
1996. 1419 876 873; 1420 875 876; 1421 877 880; 1422 840 841; 1423 839 840
1997. 1425 841 878; 1426 878 879; 1428 879 831; 1429 834 881; 1430 880 830
1998. 1431 880 882; 1432 881 884; 1433 882 885; 1434 881 882; 1435 883 886

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.

1999. 1436 882 883; 1437 884 879; 1438 885 881; 1439 884 885; 1440 886 862
2000. 1441 885 886; 1442 887 866; 1443 888 872; 1444 887 888; 1445 842 843
2001. 1448 846 925; 1450 889 842; 1451 842 835; 1452 846 4608; 1453 847 917
2002. 1454 848 841; 1455 848 890; 1456 891 851; 1457 892 854; 1458 892 898
2003. 1459 891 904; 1460 854 855; 1461 855 908; 1462 852 899; 1463 856 857
2004. 1464 857 858; 1465 850 893; 1466 858 894; 1467 894 897; 1468 893 890
2005. 1469 849 913; 1470 857 896; 1471 849 4651; 1472 856 909; 1473 895 905
2006. 1474 896 849; 1475 853 896; 1476 897 919; 1477 896 912; 1478 898 891
2007. 1479 898 900; 1480 899 895; 1481 851 901; 1482 900 902; 1483 901 903
2008. 1484 900 901; 1485 902 852; 1486 903 899; 1487 902 903; 1488 904 889
2009. 1489 905 845; 1490 904 906; 1491 906 907; 1492 901 906; 1493 907 905
2010. 1494 903 907; 1495 908 910; 1496 909 911; 1497 908 909; 1498 910 852
2011. 1499 911 855; 1500 910 911; 1501 912 914; 1502 913 916; 1503 912 913
2012. 1504 914 897; 1505 915 850; 1506 914 918; 1507 916 915; 1508 917 848
2013. 1509 916 917; 1510 918 915; 1511 919 893; 1512 918 919; 1513 920 847
2014. 1514 920 840; 1516 922 4607; 1517 921 4686; 1518 923 920; 1519 925 844
2015. 1520 925 924; 1521 923 924; 1524 930 4609; 1529 824 931; 1530 825 932
2016. 1531 826 933; 1532 827 934; 1533 828 935; 1534 829 936; 1535 830 937
2017. 1536 831 938; 1537 832 939; 1538 833 940; 1539 834 941; 1540 835 942
2018. 1541 836 943; 1546 841 948; 1547 842 949; 1552 847 954; 1553 848 955
2019. 1554 849 956; 1555 850 957; 1556 851 958; 1557 852 959; 1558 853 960
2020. 1559 854 961; 1560 855 962; 1561 856 963; 1562 857 964; 1563 858 965
2021. 1564 931 932; 1565 932 966; 1566 966 967; 1567 967 968; 1568 939 994
2022. 1569 939 978; 1570 936 975; 1571 933 966; 1572 937 972; 1573 934 967
2023. 1574 938 969; 1575 935 968; 1576 969 935; 1577 937 990; 1578 948 970
2024. 1579 970 974; 1580 971 933; 1581 972 934; 1582 971 972; 1583 973 931
2025. 1584 973 979; 1585 974 932; 1586 975 971; 1587 974 975; 1588 942 982
2026. 1589 943 1029; 1591 941 984; 1593 976 941; 1594 977 942; 1595 977 939
2027. 1596 943 4653; 1597 978 983; 1598 979 981; 1599 978 995; 1600 980 940
2028. 1601 981 970; 1602 980 981; 1603 982 943; 1604 983 980; 1605 982 983
2029. 1606 984 987; 1607 947 948; 1608 946 947; 1610 948 985; 1611 985 986
2030. 1613 986 938; 1614 941 988; 1615 987 937; 1616 987 989; 1617 988 991
2031. 1618 989 992; 1619 988 989; 1620 990 993; 1621 989 990; 1622 991 986
2032. 1623 992 938; 1624 991 992; 1625 993 969; 1626 992 993; 1627 994 973
2033. 1628 995 979; 1629 994 995; 1630 949 950; 1633 953 1032; 1635 996 949
2034. 1636 949 942; 1637 953 4613; 1638 954 1024; 1639 955 948; 1640 955 997
2035. 1641 998 958; 1642 999 961; 1643 998 1005; 1644 998 1011; 1645 961 962
2036. 1646 962 1015; 1647 959 1006; 1648 963 964; 1649 964 965; 1650 957 1000
2037. 1651 965 1001; 1652 1001 1004; 1653 1000 997; 1654 956 1020; 1655 964 1003
2038. 1656 956 4655; 1657 963 1016; 1658 1002 1012; 1659 1003 956; 1660 960 1003
2039. 1661 1004 1026; 1662 1003 1019; 1663 1005 998; 1664 1005 1007; 1665 1006 1002
2040. 1666 958 1008; 1667 1007 1009; 1668 1008 1010; 1669 1007 1008; 1670 1009 959
2041. 1671 1010 1006; 1672 1009 1010; 1673 1011 996; 1674 1012 952; 1675 1011 1013
2042. 1676 1013 1014; 1677 1008 1013; 1678 1014 1012; 1679 1010 1014; 1680 1015 1017
2043. 1681 1016 1018; 1682 1015 1016; 1683 1017 959; 1684 1018 960; 1685 1017 1018
2044. 1686 1019 1021; 1687 1020 1023; 1688 1019 1020; 1689 1021 1004; 1690 1022 957
2045. 1691 1021 1025; 1692 1023 1022; 1693 1024 955; 1694 1023 1024; 1695 1025 1022
2046. 1696 1026 1000; 1697 1025 1026; 1698 1027 954; 1699 1027 947; 1701 1029 4612
2047. 1702 1028 4691; 1703 1030 1027; 1704 1032 951; 1705 1032 1031; 1706 1030 1031
2048. 1709 1037 4614; 1714 931 1038; 1715 932 1039; 1716 933 1040; 1717 934 1041
2049. 1718 935 1042; 1719 936 1043; 1720 937 1044; 1721 938 1045; 1722 939 1046
2050. 1723 940 1047; 1724 941 1048; 1725 942 1049; 1726 943 1050; 1731 948 1055
2051. 1732 949 1056; 1737 954 1061; 1738 955 1062; 1739 956 1063; 1740 957 1064
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2053. 1746 963 1070; 1747 964 1071; 1748 965 1072; 1749 1038 1039; 1750 1039 1073
2054. 1751 1073 1074; 1752 1074 1075; 1753 1046 1101; 1754 1046 1085; 1755 1043 1082

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NO6 -
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

2055. 1756 1040 1073; 1757 1044 1079; 1758 1041 1074; 1759 1045 1076; 1760 1042 1075
2056. 1761 1076 1042; 1762 1044 1097; 1763 1047 1077; 1764 1077 1081; 1765 1078 1040
2057. 1766 1079 1041; 1767 1078 1079; 1768 1080 1038; 1769 1080 1086; 1770 1081 1039
2058. 1771 1082 1078; 1772 1081 1082; 1773 1049 1089; 1774 1050 1136; 1776 1048 1091
2059. 1778 1083 1048; 1779 1084 1049; 1780 1084 1046; 1781 1050 4657; 1782 1085 1090
2060. 1783 1086 1088; 1784 1085 1102; 1785 1087 1047; 1786 1088 1077; 1787 1087 1088
2061. 1788 1089 1050; 1789 1090 1087; 1790 1089 1090; 1791 1091 1094; 1792 1054 1055
2062. 1793 1053 1054; 1795 1055 1092; 1796 1092 1093; 1798 1093 1045; 1799 1048 1095
2063. 1800 1094 1044; 1801 1094 1096; 1802 1095 1098; 1803 1096 1099; 1804 1095 1096
2064. 1805 1097 1100; 1806 1096 1097; 1807 1098 1093; 1808 1099 1045; 1809 1098 1099
2065. 1810 1100 1076; 1811 1099 1100; 1812 1101 1080; 1813 1102 1086; 1814 1101 1102
2066. 1815 1056 1057; 1818 1060 1139; 1820 1103 1056; 1821 1056 1049; 1822 1060 4618
2067. 1823 1061 1131; 1824 1062 1055; 1825 1062 1104; 1826 1105 1065; 1827 1106 1068
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2070. 1838 1107 1104; 1839 1063 1127; 1840 1071 1110; 1841 1063 4659; 1842 1070 1123
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2075. 1863 1121 1119; 1864 1117 1121; 1865 1122 1124; 1866 1123 1125; 1867 1122 1123
2076. 1868 1124 1066; 1869 1125 1067; 1870 1124 1125; 1871 1126 1128; 1872 1127 1130
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2078. 1878 1131 1062; 1879 1130 1131; 1880 1132 1129; 1881 1133 1107; 1882 1132 1133
2079. 1883 1134 1061; 1884 1134 1054; 1886 1136 4617; 1887 1135 4694; 1888 1137 1134
2080. 1889 1139 1058; 1890 1139 1138; 1891 1137 1138; 1894 1144 4619; 1899 1049 1145
2081. 1900 1050 1146; 1905 1055 1151; 1906 1056 1152; 1911 1061 1157; 1912 1062 1158
2082. 1913 1145 1160; 1914 1146 1165; 1917 1160 1146; 1918 1150 1151; 1919 1149 1150
2083. 1922 1152 1153; 1925 1156 1168; 1927 1152 1145; 1928 1156 1166; 1929 1157 1162
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2090. 1971 44 4665; 1972 41 42; 1973 41 38; 1974 42 39; 1975 1185 4664; 1976 1186 41
2091. 1983 43 1190; 1984 1190 40; 1985 42 1190; 1986 46 1191; 1987 1191 1195
2092. 1988 45 1192; 1989 1192 1194; 1991 48 45; 1992 48 1214; 1993 1193 49
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2094. 1999 54 55; 2000 58 1218; 2001 59 60; 2002 52 1212; 2006 60 53; 2011 69 70
2095. 2012 68 69; 2013 67 68; 2014 66 67; 2015 67 64; 2016 68 65; 2017 69 1200
2096. 2018 64 1206; 2019 1200 61; 2020 65 1200; 2023 61 62; 2024 61 59; 2025 64 1208
2097. 2032 54 47; 2034 1206 65; 2037 1206 1211; 2038 1208 1210; 2039 63 1208
2098. 2042 1210 57; 2043 1211 1207; 2044 1210 1211; 2045 1212 53; 2046 59 1212
2099. 2049 1214 1193; 2050 1213 1219; 2053 1215 46; 2054 1216 1217; 2055 1218 50
2100. 2056 1218 1217; 2057 1219 1214; 2058 1219 1220; 2059 1220 1221; 2061 1222 1221
2101. 2063 1223 1220; 2071 1226 1227; 2076 1231 1234; 2079 1234 1229; 6348 84 3391
2102. 6349 92 2750; 6350 119 3395; 6351 127 2755; 6352 302 3399; 6353 310 2760
2103. 6354 409 3403; 6355 417 2765; 6356 516 3407; 6357 524 2770; 6358 623 3411
2104. 6359 631 2775; 6360 730 3415; 6361 738 2780; 6362 837 3419; 6363 845 2785
2105. 6364 944 3423; 6365 952 2790; 6366 1051 3427; 6367 1059 2795; 6368 1153 1470
2106. 6369 92 2194; 6370 90 1418; 6371 205 1411; 6372 86 3931; 6373 4576 163
2107. 6375 151 3394; 6376 87 4297; 6377 127 2199; 6378 125 1416; 6379 279 1417
2108. 6380 121 3934; 6381 225 3398; 6382 122 4300; 6383 318 2204; 6384 308 1422
2109. 6385 386 1423; 6386 304 3937; 6387 334 3402; 6388 305 4303; 6389 417 2209
2110. 6390 415 1428; 6391 493 1429; 6392 411 3940; 6393 441 3406; 6394 412 4306

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.

2111. 6395 524 2214; 6396 522 1434; 6397 680 1435; 6398 518 3943; 6399 548 3418
2112. 6400 519 4309; 6401 631 2219; 6402 629 1440; 6403 707 1441; 6404 625 3946
2113. 6405 655 3414; 6406 626 4312; 6407 738 2224; 6408 736 1446; 6409 814 1447
2114. 6410 732 3949; 6411 762 3418; 6412 733 4315; 6413 845 2229; 6414 843 1452
2115. 6415 921 1453; 6416 839 3952; 6417 869 3422; 6418 840 4318; 6419 952 2234
2116. 6420 950 1458; 6421 1028 1459; 6422 946 3955; 6423 976 3426; 6424 947 4321
2117. 6425 1059 2239; 6426 1057 1464; 6427 1135 1465; 6428 1053 3958; 6429 1083 3430
2118. 6430 1054 4324; 6441 51 52; 6442 58 1216; 6443 1216 56; 6470 4577 119
2119. 6471 4577 4626; 6472 4578 281; 6473 135 4628; 6474 4579 280; 6475 4669 4671
2120. 6476 4580 121; 6477 126 4670; 6478 4671 4670; 6479 284 4671; 6480 4582 302
2121. 6481 4583 388; 6482 4584 387; 6483 4582 4630; 6484 318 4632; 6485 4672 4682
2122. 6486 389 4693; 6487 4682 4693; 6488 391 4682; 6489 4587 469; 6490 4588 495
2123. 6491 4589 494; 6492 4587 4634; 6493 425 4636; 6494 4685 4688; 6495 416 4687
2124. 6496 4688 4687; 6497 498 4688; 6498 4502 516; 6499 4593 602; 6500 4594 601
2125. 6501 4592 4638; 6502 532 4640; 6503 4678 4680; 6504 523 4676; 6505 4680 4676
2126. 6506 605 4680; 6507 4597 623; 6508 4598 709; 6509 4599 708; 6510 4597 4642
2127. 6511 639 4644; 6512 4677 4689; 6513 630 4675; 6514 4689 4675; 6515 712 4689
2128. 6516 4602 730; 6517 4603 816; 6518 4604 815; 6519 4602 4646; 6520 746 4648
2129. 6521 4681 4684; 6522 737 4674; 6523 4684 4674; 6524 819 4684; 6525 4607 837
2130. 6526 4608 923; 6527 4609 922; 6528 4607 4650; 6529 853 4652; 6530 4686 4673
2131. 6531 844 4690; 6532 4673 4690; 6533 926 4673; 6534 4612 944; 6535 4613 1030
2132. 6536 4614 1029; 6537 4612 4654; 6538 960 4656; 6539 4691 4692; 6540 951 4683
2133. 6541 4692 4683; 6542 1033 4692; 6543 4617 1051; 6544 4618 1137; 6545 4619 1136
2134. 6546 4617 4658; 6547 1067 4660; 6548 4694 4695; 6549 1058 4679; 6550 4695 4679
2135. 6551 1140 4695; 6552 4585 304; 6553 4590 411; 6554 4595 518; 6555 4600 625
2136. 6556 4605 732; 6557 4610 839; 6558 4615 946; 6559 4620 1053; 6560 4622 206
2137. 6561 4667 4668; 6562 4623 86; 6563 91 4666; 6564 4668 4666; 6565 210 4668
2138. 6566 1230 2659; 6567 1230 2107; 6568 1228 1318; 6569 1226 3846; 6570 1227 4212
2139. 6571 1224 3301; 6572 4625 115; 6573 4626 111; 6574 4625 4626; 6575 4627 129
2140. 6576 4628 4578; 6577 4628 4627; 6578 4629 298; 6579 4630 294; 6580 4631 312
2141. 6581 4632 4583; 6582 4629 4630; 6583 4632 4631; 6584 4633 405; 6585 4634 401
2142. 6586 4635 419; 6587 4636 4588; 6588 4633 4634; 6589 4636 4635; 6590 4637 512
2143. 6591 4638 508; 6592 4639 526; 6593 4640 4593; 6594 4637 4638; 6595 4640 4639
2144. 6596 4641 619; 6597 4642 615; 6598 4643 633; 6599 4644 4598; 6600 4641 4642
2145. 6601 4644 4643; 6602 4645 726; 6603 4646 722; 6604 4647 740; 6605 4648 4603
2146. 6606 4645 4646; 6607 4648 4647; 6608 4649 833; 6609 4650 829; 6610 4651 847
2147. 6611 4652 4608; 6612 4649 4650; 6613 4652 4651; 6614 4653 940; 6615 4654 936
2148. 6616 4655 954; 6617 4656 4613; 6618 4653 4654; 6619 4656 4655; 6620 4657 1047
2149. 6621 4658 1043; 6622 4659 1061; 6623 4660 4618; 6624 4657 4658; 6625 4660 4659
2150. 6626 66 4661; 6627 63 54; 6628 4661 63; 6629 4661 64; 6630 70 4662
2151. 6631 4662 62; 6632 1200 4662; 6633 62 60; 6634 4663 43; 6635 53 4663
2152. 6636 38 39; 6637 39 40; 6638 4664 37; 6639 4664 38; 6640 4665 45; 6641 47 4665
2153. 6642 4666 4623; 6643 4667 214; 6645 210 1414; 6646 211 1415; 6647 284 1420
2154. 6648 285 1421; 6649 391 1426; 6650 392 1427; 6651 498 1432; 6652 499 1433
2155. 6653 605 1438; 6654 606 1439; 6655 712 1444; 6656 713 1445; 6657 819 1450
2156. 6658 820 1451; 6659 926 1456; 6660 927 1457; 6661 1033 1462; 6662 1034 1463
2157. 6663 1140 1468; 6664 1141 1469; 6665 1232 3304; 6666 1233 1319; 6667 1235 1322
2158. 6668 1236 1323; 6669 1318 1233; 6670 1319 1320; 6671 1320 1321; 6672 1321 1235
2159. 6673 1322 1236; 6674 1323 1229; 6675 1410 205; 6676 1411 1412; 6677 1412 1413
2160. 6678 1413 210; 6679 1414 211; 6680 1415 91; 6681 1416 279; 6682 1417 1418
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2162. 6688 1423 1424; 6689 1424 1425; 6690 1425 391; 6691 1426 392; 6692 1427 389
2163. 6693 1428 493; 6694 1429 1430; 6695 1430 1431; 6696 1431 498; 6697 1432 499
2164. 6698 1433 416; 6699 1434 600; 6700 1435 1436; 6701 1436 1437; 6702 1437 605
2165. 6703 1438 606; 6704 1439 523; 6705 1440 707; 6706 1441 1442; 6707 1442 1443
2166. 6708 1443 712; 6709 1444 713; 6710 1445 630; 6711 1446 814; 6712 1447 1448

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

2167. 6713 1448 1449; 6714 1449 819; 6715 1450 820; 6716 1451 737; 6717 1452 921
2168. 6718 1453 1454; 6719 1454 1455; 6720 1455 926; 6721 1456 927; 6722 1457 844
2169. 6723 1458 1028; 6724 1459 1460; 6725 1460 1461; 6726 1461 1033; 6727 1462 1034
2170. 6728 1463 951; 6729 1464 1135; 6730 1465 1466; 6731 1466 1467; 6732 1467 1140
2171. 6733 1468 1141; 6734 1469 1058; 6735 1470 1164; 6736 2103 1228; 6737 2104 2103
2172. 6738 2105 2104; 6739 2106 2105; 6740 2107 2106; 6741 2194 2195; 6742 2195 2196
2173. 6743 2196 2197; 6744 2197 2198; 6745 2198 90; 6746 2199 2200; 6747 2200 2201
2174. 6748 2201 2202; 6749 2202 2203; 6750 2203 125; 6751 2204 2205; 6752 2205 2206
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2176. 6758 2211 2212; 6759 2212 2213; 6760 2213 415; 6761 2214 2215; 6762 2215 2216
2177. 6763 2216 2217; 6764 2217 2218; 6765 2218 522; 6766 2219 2220; 6767 2220 2221
2178. 6768 2221 2222; 6769 2222 2223; 6770 2223 629; 6771 2224 2225; 6772 2225 2226
2179. 6773 2226 2227; 6774 2227 2228; 6775 2228 736; 6776 2229 2230; 6777 2230 2231
2180. 6778 2231 2232; 6779 2232 2233; 6780 2233 843; 6781 2234 2235; 6782 2235 2236
2181. 6783 2236 2237; 6784 2237 2238; 6785 2238 950; 6786 2239 2240; 6787 2240 2241
2182. 6788 2241 2242; 6789 2242 2243; 6790 2243 1057; 6791 2659 2660; 6792 2660 2661
2183. 6793 2661 2662; 6794 2662 2663; 6795 2663 1231; 6796 2750 2751; 6797 2751 2752
2184. 6798 2752 2753; 6799 2753 2754; 6800 2754 93; 6801 2755 2756; 6802 2756 2757
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2186. 6808 2762 2763; 6809 2763 2764; 6810 2764 311; 6811 2765 2766; 6812 2766 2767
2187. 6813 2767 2768; 6814 2768 2769; 6815 2769 418; 6816 2770 2771; 6817 2771 2772
2188. 6818 2772 2773; 6819 2773 2774; 6820 2774 525; 6821 2775 2776; 6822 2776 2777
2189. 6823 2777 2778; 6824 2778 2779; 6825 2779 632; 6826 2780 2781; 6827 2781 2782
2190. 6828 2782 2783; 6829 2783 2784; 6830 2784 739; 6831 2785 2786; 6832 2786 2787
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2193. 6843 2797 2798; 6844 2798 2799; 6845 2799 1060; 6846 3301 3302; 6847 3302 3303
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2205. 6903 3941 3942; 6904 3942 409; 6905 3943 3944; 6906 3944 3945; 6907 3945 516
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2216. 6959 4672 395; 6961 4674 4605; 6962 4675 4600; 6963 4676 4595; 6964 4677 716
2217. 6965 4678 609; 6966 4679 4620; 6968 4681 823; 6970 4683 4615; 6972 4685 502
2218. 6973 4686 930; 6974 4687 4590; 6977 4690 4610; 6978 4691 1037; 6980 4693 4585
2219. 6981 4694 1144; 6982 4696 287; 6983 179 4698; 6984 4697 94; 6985 4698 4696
2220. 6986 4698 4697; 6987 176 250; 6988 250 358; 6989 358 465; 6990 465 572
2221. 6991 572 679; 6992 679 786; 6993 786 893; 6994 893 1000; 6995 1000 1187
2222. 6996 177 251; 6997 251 359; 6998 359 466; 6999 466 573; 7000 573 680

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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2223. 7001 680 787; 7002 787 894; 7003 894 1001; 7004 1001 1108; 7005 175 249
2224. 7006 249 357; 7007 357 464; 7008 464 571; 7009 571 678; 7010 678 785
2225. 7011 785 892; 7012 892 999; 7013 999 1106; 7014 174 248; 7015 248 356
2226. 7016 356 463; 7017 463 570; 7018 570 677; 7019 677 784; 7020 784 891
2227. 7021 891 998; 7022 998 1105; 7023 172 246; 7024 246 354; 7025 354 461
2228. 7026 461 568; 7027 568 675; 7028 675 782; 7029 782 889; 7030 889 996
2229. 7031 996 1103; 7032 152 226; 7033 226 335; 7034 335 442; 7035 442 549
2230. 7036 549 656; 7037 656 763; 7038 763 870; 7039 870 977; 7040 977 1084
2231. 7041 173 247; 7042 247 355; 7043 355 462; 7044 462 569; 7045 569 676
2232. 7046 676 783; 7047 783 890; 7048 890 997; 7049 997 1104; 7050 160 234
2233. 7051 234 343; 7052 343 450; 7053 450 557; 7054 557 664; 7055 664 771
2234. 7056 771 878; 7057 878 985; 7058 985 1092; 7059 141 215; 7060 215 324
2235. 7061 324 431; 7062 431 538; 7063 538 645; 7064 645 752; 7065 752 859
2236. 7066 859 966; 7067 966 1073; 7068 142 216; 7069 216 325; 7070 325 432
2237. 7071 432 539; 7072 539 646; 7073 646 753; 7074 753 860; 7075 860 967
2238. 7076 967 1074; 7077 143 217; 7078 217 326; 7079 326 433; 7080 433 540
2239. 7081 540 647; 7082 647 754; 7083 754 861; 7084 861 968; 7085 968 1075
2240. ELEMENT INCIDENCES SHELL
2241. 2330 1409 1890 1586 1408; 2331 1472 1590 1891 1473; 2332 1244 90 1410 1892
2242. 2333 1893 1593 1487 1595; 2334 1597 926 1456 1894; 2335 1598 285 1421 1895
2243. 2336 415 1266 1896 1428; 2337 1897 1602 1483 1590; 2338 125 1252 1898 1416
2244. 2339 1300 950 1458 1899; 2340 1008 1492 1610 1900; 2341 90 1245 1901 1410
2245. 2342 1902 1613 1541 1615; 2343 1617 498 1432 1903; 2344 1441 1904 1618 1442
2246. 2345 1621 284 1420 1905; 2346 1622 1534 1624 1906; 2347 1272 522 1434 1907
2247. 2348 1627 1585 1630 1908; 2349 1550 1632 1909 1631; 2350 1633 1486 1635 1910
2248. 2351 1911 1636 1485 1639; 2352 1295 1256 1912 1640; 2353 1291 1292 1645 1913
2249. 2354 1547 1592 1914 1646; 2355 1648 1222 1480 1915; 2356 1916 1650 1342 1343
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V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
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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
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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 : 9841206758

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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: 9841669154

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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: 9841

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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.
Mobile: 9841269154

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

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V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2018/03/024, GA/2019/04/021
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 -
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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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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: 9841268154

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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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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 GAURAV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 98412 50154

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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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3103. 5535 4107 4174 4106 3978; 5536 4093 4175 3925 3926; 5537 3221 3222 4176 4019
3104. 5538 4177 4105 3989 4102; 5539 3263 3264 4111 4178; 5540 3224 3225 4179 4112
3105. 5541 4022 3944 3943 4180; 5542 3956 4068 4181 3955; 5543 4182 3957 3956 4072
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3114. 5568 4207 4013 3848 3849; 5569 3264 3265 4208 4111; 5570 4065 4209 3910 3911
3115. 5571 4000 3973 3999 4116; 5572 4116 3999 3869 3870; 5573 3952 4116 3870 839
3116. 5574 3980 4001 4117 4002; 5575 4001 3947 3946 4117; 5576 4117 3946 625 3885
3117. 5577 3958 4118 3856 1053; 5578 3959 4004 4118 3958; 5579 4004 3967 4003 4118
3118. 5580 3237 3238 4007 4119; 5581 4119 4007 3990 4006; 5582 4005 4119 4006 3990
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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: 9841256454

3119. 5583 4120 3958 1053 3857; 5584 4009 4120 3857 3858; 5585 3968 4008 4120 4009
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3125. 5601 3255 516 3945 4126; 5602 4126 3945 3944 4022; 5603 4021 4125 4022 3983
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3159. 5703 3976 4086 4160 4087; 5704 4086 3975 4085 4160; 5705 4160 4085 3874 3875
3160. 5706 4161 4089 3976 4088; 5707 3951 4161 4088 3950; 5708 730 3270 4161 3951
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3172. 5742 3241 302 3939 4173; 5743 4173 3939 3938 4070; 5744 4105 4173 4070 3989
3173. 5745 3266 3267 4174 4107; 5746 3267 3268 4043 4174; 5747 4174 4043 3977 4106
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V. JAGEN, B.E.M.E.,(Struct), M.I.E.A.I.V.,
CMDA REGN NOS -
SE / GR-1 / 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: 9841260164

3175. 5751 3222 49 4100 4176; 5752 4176 4109 3997 4108; 5753 4019 4176 4100 3998
3176. 5754 4007 4177 4102 3998; 5755 3238 3239 4177 4007; 5756 3239 3240 4105 4177
3177. 5757 4178 4111 3979 4110; 5758 3948 4178 4110 3947; 5759 623 3263 4178 3948
3178. 5760 3225 3226 4113 4179; 5761 4179 4113 3995 4063; 5762 4112 4179 4063 3996
3179. 5763 4180 3943 518 3892; 5764 4114 4180 3892 3893; 5765 3983 4022 4180 4114
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3184. 5778 1051 3291 4185 3960; 5779 3291 3292 4078 4185; 5780 4185 4078 3967 4004
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3188. 5790 110 3235 4189 3936; 5791 3235 3236 4005 4189; 5792 4189 4005 3991 4066
3189. 5793 4113 4190 4088 3995; 5794 3226 3227 4190 4113; 5795 3227 84 3933 4190
3190. 5796 4038 4191 4001 3980; 5797 3261 3262 4191 4038; 5798 3262 623 3948 4191
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3218. 5997 3309 3308 4509 4422; 5998 4510 4320 4319 4401; 5999 3373 3372 4426 4511
3219. 6000 4512 4302 4301 4427; 6001 4430 4513 4288 4289; 6002 4514 4431 4277 4278
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3222. 6009 4521 4443 4332 4445; 6010 4428 4522 4286 4287; 6011 4523 4447 4270 4271
3223. 6012 4310 4383 4524 4309; 6013 4449 4362 4430 4525; 6014 4453 4526 4241 4242
3224. 6015 3335 3334 4455 4527; 6016 4351 4457 4528 4410; 6017 3328 3327 4458 4529
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3229. 6030 3384 3383 4542 4385; 6031 4543 4471 4355 4468; 6032 3342 3341 4477 4544
3230. 6033 3381 3380 4545 4478; 6034 4388 4310 4309 4546; 6035 4322 4434 4547 432

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

3231. 6036 4548 4323 4322 4438; 6037 4549 4439 4231 4232; 6038 4316 4454 4550 4315
3232. 6039 4326 4551 4370 4325; 6040 4298 4392 4552 4297; 6041 4369 4553 4220 4221
3233. 6042 4554 4433 4280 4281; 6043 4302 4555 4432 4301; 6044 4556 4299 4298 4446
3234. 6045 4557 4314 4313 4367; 6046 4462 4307 4306 4558; 6047 3348 3347 4559 4384
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3241. 6066 4318 4482 4236 840; 6067 4346 4367 4483 4368; 6068 4367 4313 4312 4483
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3285. 6198 4526 4451 4240 4241; 6199 4527 4455 4342 4454; 6200 4317 4527 4454 4316
3286. 6201 731 3335 4527 4317; 6202 4457 4350 4456 4528; 6203 4528 4456 4261 4262

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, CA/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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3287. 6204 4410 4528 4262 4263; 6205 4529 4458 4339 4366; 6206 4328 4529 4366 4319
3288. 6207 838 3328 4529 4320; 6208 4295 4386 4538 4294; 6209 4386 4364 4459 4530
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3302. 6249 3366 3365 4471 4543; 6250 4544 4477 4345 4476; 6251 4314 4544 4476 4313
3303. 6252 624 3342 4544 4314; 6253 3380 3379 4479 4545; 6254 4545 4479 4361 4429
3304. 6255 4478 4545 4429 4362; 6256 4546 4309 519 4258; 6257 4480 4546 4258 4259
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3306. 6261 4321 4547 4229 947; 6262 4442 4548 4438 4337; 6263 3323 3322 4548 4442
3307. 6264 3322 945 4323 4548; 6265 4413 4549 4232 4233; 6266 4338 4441 4549 4413
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3317. 6294 4352 4462 4558 4467; 6295 3347 3346 4485 4559; 6296 4559 4485 4347 4381
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3321. 6306 4455 4562 4452 4342; 6307 3359 3358 4461 4563; 6308 4563 4461 4352 4466
3322. 6309 4464 4563 4466 4353; 6310 4564 4422 4331 4397; 6311 4443 4564 4397 4332
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3335. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
3336. PARAMETRIC MODEL SW1-C
3337. TYPE WALL
3338. MESH PARAM 1 4 1
3339. MESH ORG 0 1 14
3340. BOUNDARY 28
3341. 15 0 0 50 0 0 85 0 0 120 0 0 303 0 0 410 0 0 517 0 0 624 0 0 731 0 0 838 0 0 -
3342. 945 0 0 1052 0 0 1148 0 0 1225 0 0 1227 0 0 1150 0 0 1054 0 0 947 0 0 -
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BLOCK-2, MODEL SCHOOL ROAD
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Mobile: 9841269154

STAAD SPACE -- PAGE NO. 61

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3343. 840 0 0 733 0 0 626 0 0 519 0 0 412 0 0 305 0 0 122 0 0 87 0 0 52 0 0 17 0 0
3344. DENSITY LINE 11.22 4.41 11.52 1 11.22 4.41 9.64 1 0
3345. DENSITY LINE 11.22 7.42 11.52 1 11.21 7.42 9.64 1 0
3346. DENSITY LINE 11.22 10.43 11.52 1 11.22 10.43 9.64 1 0
3347. DENSITY LINE 11.22 13.44 11.52 1 11.22 13.44 9.64 1 0
3348. DENSITY LINE 11.22 16.45 11.52 1 11.22 16.45 9.64 1 0
3349. DENSITY LINE 11.22 19.46 11.52 1 11.22 19.46 9.64 1 0
3350. DENSITY LINE 11.22 22.47 11.52 1 11.22 22.47 9.64 1 0
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3356. GENERATED PLATES PLATE 5970 TO 6345
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3363. MESH ORG 0 1 14
3364. BOUNDARY 28
3365. 14 0 0 49 0 0 84 0 0 119 0 0 301 0 0 409 0 0 516 0 0 623 0 0 730 0 0 837 0 0 -
3366. 944 0 0 1051 0 0 1147 0 0 1224 0 0 1226 0 0 1149 0 0 1053 0 0 946 0 0 -
3367. 839 0 0 732 0 0 625 0 0 518 0 0 411 0 0 304 0 0 121 0 0 86 0 0 51 0 0 16 0 0
3368. DENSITY LINE 9.16 4.41 11.52 1 9.16 4.41 9.64 1 0
3369. DENSITY LINE 9.16 7.42 11.52 1 9.16 7.42 9.64 1 0
3370. DENSITY LINE 9.16 10.43 11.52 1 9.16 10.43 9.64 1 0
3371. DENSITY LINE 9.16 13.44 11.52 1 9.16 13.44 9.64 1 0
3372. DENSITY LINE 9.16 16.45 11.52 1 9.16 16.45 9.64 1 0
3373. DENSITY LINE 9.16 19.46 11.52 1 9.16 19.46 9.64 1 0
3374. DENSITY LINE 9.16 22.47 11.52 1 9.16 22.47 9.64 1 0
3375. DENSITY LINE 9.16 25.48 11.52 1 9.16 25.48 9.64 1 0
3376. DENSITY LINE 9.16 28.49 11.52 1 9.16 28.49 9.64 1 0
3377. DENSITY LINE 9.16 31.5 11.52 1 9.16 31.5 9.64 1 0
3378. DENSITY LINE 9.16 34.51 11.52 1 9.16 34.51 9.64 1 0
3379. GENERATED NODES 3844 TO 4209
3380. GENERATED PLATES PLATE 5477 TO 5852
3381. END
3382. !> END GENERATED DATA BLOCK
3383. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
3384. PARAMETRIC MODEL SW1-A
3385. TYPE WALL
3386. MESH PARAM 1 4 1
3387. MESH ORG 0 1 15
3388. BOUNDARY 29
3389. 14 0 0 49 0 0 84 0 0 119 0 0 301 0 0 409 0 0 516 0 0 623 0 0 730 0 0 837 0 0 -
3390. 944 0 0 1051 0 0 1147 0 0 1224 0 0 1232 0 0 1225 0 0 1148 0 0 1052 0 0 -
3391. 945 0 0 838 0 0 731 0 0 624 0 0 517 0 0 410 0 0 303 0 0 120 0 0 85 0 0 -
3392. 50 0 0 15 0 0
3393. DENSITY POINTS 12
3394. 10.95 4.41 9.64 1 10.95 7.42 9.64 1 10.95 10.43 9.64 1 10.95 13.44 9.64 1 -
3395. 10.95 16.45 9.64 1 10.95 19.46 9.64 1 10.95 22.47 9.64 1 10.95 25.48 9.64 1 -
3396. 10.95 28.49 9.64 1 10.95 31.5 9.64 1 10.95 34.51 9.64 1 10.95 1.5 9.64 1
3397. DENSITY LINE 9.16 4.41 9.64 1 10.95 4.41 9.64 1 0
3398. DENSITY LINE 10.95 4.41 9.64 1 11.22 4.41 9.64 1 0
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BLOCK-2, MODEL SCHOOL ROAD
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3399. DENSITY LINE 9.16 7.42 9.64 1 10.95 7.42 9.64 1 0
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3416. DENSITY LINE 10.95 31.5 9.64 1 11.22 31.5 9.64 1 0
3417. DENSITY LINE 9.16 34.51 9.64 1 10.95 34.51 9.64 1 0
3418. DENSITY LINE 10.95 34.51 9.64 1 11.22 34.51 9.64 1 0
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3420. DENSITY LINE 10.95 1.5 9.64 1 11.22 1.5 9.64 1 0
3421. GENERATED NODES 3220 TO 3843
3422. GENERATED PLATES PLATE 4796 TO 5359
3423. END
3424. !> END GENERATED DATA BLOCK
3425. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
3426. PARAMETRIC MODEL SW2-C
3427. TYPE WALL
3428. MESH PARAM 1 4 1
3429. MESH ORG 0 1 14
3430. BOUNDARY 28
3431. 22 0 0 57 0 0 92 0 0 127 0 0 310 0 0 417 0 0 524 0 0 631 0 0 738 0 0 845 0 0 -
3432. 952 0 0 1059 0 0 1155 0 0 1230 0 0 1231 0 0 1156 0 0 1060 0 0 953 0 0 -
3433. 846 0 0 739 0 0 632 0 0 525 0 0 418 0 0 311 0 0 128 0 0 93 0 0 58 0 0 23 0 0
3434. DENSITY POINTS 1
3435. 7.7 1.5 14.96 1
3436. DENSITY LINE 5.19 4.41 14.96 1 7.87 4.41 14.96 1 0
3437. DENSITY LINE 5.19 7.42 14.96 1 7.87 7.42 14.96 1 0
3438. DENSITY LINE 5.19 10.43 14.96 1 7.87 10.43 14.96 1 0
3439. DENSITY LINE 5.19 13.44 14.96 1 7.87 13.44 14.96 1 0
3440. DENSITY LINE 5.19 16.45 14.96 1 7.87 16.45 14.96 1 0
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3442. DENSITY LINE 5.19 22.47 14.96 1 7.87 22.47 14.96 1 0
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3444. DENSITY LINE 5.19 28.49 14.96 1 7.87 28.49 14.96 1 0
3445. DENSITY LINE 5.19 31.5 14.96 1 7.87 31.5 14.96 1 0
3446. DENSITY LINE 5.19 34.51 14.96 1 7.87 34.51 14.96 1 0
3447. DENSITY LINE 5.19 1.5 14.96 1 7.7 1.5 14.96 1 0
3448. DENSITY LINE 7.7 1.5 14.96 1 7.87 1.5 14.96 1 0
3449. GENERATED NODES 2659 TO 3219
3450. GENERATED PLATES PLATE 4012 TO 4581
3451. END
3452. !> END GENERATED DATA BLOCK
3453. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
3454. PARAMETRIC MODEL SW2-B
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```
3455. TYPE WALL
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3457. MESH ORG 0 1 14
3458. BOUNDARY 28
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3460. 950 0 0 1057 0 0 1153 0 0 1228 0 0 1230 0 0 1155 0 0 1059 0 0 952 0 0 -
3461. 845 0 0 738 0 0 631 0 0 524 0 0 417 0 0 310 0 0 127 0 0 92 0 0 57 0 0 22 0 0
3462. DENSITY LINE 5.19 4.41 14.96 1 5.19 4.41 12.69 1 0
3463. DENSITY LINE 5.19 7.42 14.96 1 5.19 7.42 12.69 1 0
3464. DENSITY LINE 5.19 10.43 14.96 1 5.19 10.43 12.69 1 0
3465. DENSITY LINE 5.19 13.44 14.96 1 5.19 13.44 12.69 1 0
3466. DENSITY LINE 5.19 16.45 14.96 1 5.19 16.45 12.69 1 0
3467. DENSITY LINE 5.19 19.46 14.96 1 5.19 19.46 12.69 1 0
3468. DENSITY LINE 5.19 22.47 14.96 1 5.19 22.47 12.69 1 0
3469. DENSITY LINE 5.19 25.48 14.96 1 5.19 25.48 12.69 1 0
3470. DENSITY LINE 5.19 28.49 14.96 1 5.19 28.49 12.69 1 0
3471. DENSITY LINE 5.19 31.5 14.96 1 5.19 31.5 12.69 1 0
3472. DENSITY LINE 5.19 34.51 14.96 1 5.19 34.51 12.69 1 0
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3474. GENERATED PLATES PLATE 3301 TO 3864
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3476. 1> END GENERATED DATA BLOCK
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3499. DENSITY LINE 6.95 4.41 12.69 1 7.55 4.41 12.69 1 0
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3502. DENSITY LINE 5.76 7.42 12.69 1 6.95 7.42 12.69 1 0
3503. DENSITY LINE 6.95 7.42 12.69 1 7.55 7.42 12.69 1 0
3504. DENSITY LINE 7.55 7.42 12.69 1 7.87 7.42 12.69 1 0
3505. DENSITY LINE 5.19 10.43 12.69 1 5.76 10.43 12.69 1 0
3506. DENSITY LINE 5.76 10.43 12.69 1 6.95 10.43 12.69 1 0
3507. DENSITY LINE 6.95 10.43 12.69 1 7.55 10.43 12.69 1 0
3508. DENSITY LINE 7.55 10.43 12.69 1 7.87 10.43 12.69 1 0
3509. DENSITY LINE 5.19 13.44 12.69 1 5.76 13.44 12.69 1 0
3510. DENSITY LINE 5.76 13.44 12.69 1 6.95 13.44 12.69 1 0
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BLOCK-2, MODEL SCHOOL ROAD
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Mobile: 9841269154

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3514. DENSITY LINE 5.76 16.45 12.69 1 6.95 16.45 12.69 1 0
3515. DENSITY LINE 6.95 16.45 12.69 1 7.55 16.45 12.69 1 0
3516. DENSITY LINE 7.55 16.45 12.69 1 7.87 16.45 12.69 1 0
3517. DENSITY LINE 5.19 19.46 12.69 1 5.76 19.46 12.69 1 0
3518. DENSITY LINE 5.76 19.46 12.69 1 6.95 19.46 12.69 1 0
3519. DENSITY LINE 6.95 19.46 12.69 1 7.55 19.46 12.69 1 0
3520. DENSITY LINE 7.55 19.46 12.69 1 7.87 19.46 12.69 1 0
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3522. DENSITY LINE 5.76 22.47 12.69 1 6.95 22.47 12.69 1 0
3523. DENSITY LINE 6.95 22.47 12.69 1 7.55 22.47 12.69 1 0
3524. DENSITY LINE 7.55 22.47 12.69 1 7.87 22.47 12.69 1 0
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3535. DENSITY LINE 6.95 31.5 12.69 1 7.55 31.5 12.69 1 0
3536. DENSITY LINE 7.55 31.5 12.69 1 7.87 31.5 12.69 1 0
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3538. DENSITY LINE 5.76 34.51 12.69 1 6.95 34.51 12.69 1 0
3539. DENSITY LINE 6.95 34.51 12.69 1 7.55 34.51 12.69 1 0
3540. DENSITY LINE 7.55 34.51 12.69 1 7.87 34.51 12.69 1 0
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3543. DENSITY LINE 7.55 1.5 12.69 1 7.87 1.5 12.69 1 0
3544. DENSITY LINE 6.95 1.5 12.69 1 7.55 1.5 12.69 1 0
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3554. _SRTOILET 111 131 137 138 140 TO 142 145 147 148 161 TO 165 168 170 174 186 -
3555. 196 199 216 TO 218 221 225 226 228 235 TO 237 239 TO 244
3556. _TYPICALTOILET 268 287 293 294 296 TO 298 301 303 304 317 TO 321 324 326 330 -
3557. 342 352 355 372 TO 374 377 381 382 384 391 TO 393 395 TO 400 459 478 484 -
3558. 485 487 TO 489 492 494 495 507 TO 511 514 516 518 530 540 543 557 TO 559 -
3559. 562 566 567 569 576 TO 578 580 TO 585 644 663 669 670 672 TO 674 677 679 -
3560. 680 692 TO 696 699 701 703 715 725 728 742 TO 744 747 751 752 754 -
3561. 761 TO 763 765 TO 770 829 848 854 855 857 TO 859 862 864 865 877 TO 881 884 -
3562. 886 888 900 910 913 927 TO 929 932 936 937 939 946 TO 948 950 TO 955 1014 -
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Mobile: 9841269154

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3569. 1588 1594 1595 1597 TO 1599 1602 1604 1605 1617 TO 1621 1624 1626 1628 1640 -
3570. 1650 1653 1667 TO 1669 1672 1676 1677 1679 1686 TO 1688 1690 TO 1695
3571. _LBS 108 113 115 123 TO 125 131 132 146 151 152 176 182 184 185 229 TO 231 -
3572. 234 242 247 250 TO 255 258 265 270 272 279 TO 281 287 288 302 307 308 332 -
3573. 338 340 341 385 TO 387 390 398 403 406 TO 411 414 456 461 463 470 TO 472 -
3574. 478 479 493 497 498 520 526 528 529 570 TO 572 575 583 588 591 TO 596 599 -
3575. 641 646 648 655 TO 657 663 664 678 682 683 705 711 713 714 755 TO 757 760 -
3576. 768 773 776 TO 781 784 826 831 833 840 TO 842 848 849 863 867 868 890 896 -
3577. 898 899 940 TO 942 945 953 958 961 TO 966 969 1011 1016 1018 1025 TO 1027 -
3578. 1033 1034 1048 1052 1053 1075 1081 1083 1084 1125 TO 1127 1130 1138 1143 -
3579. 1146 TO 1151 1154 1196 1201 1203 1210 TO 1212 1218 1219 1233 1237 1238 1260 -
3580. 1266 1268 1269 1310 TO 1312 1315 1323 1328 1331 TO 1336 1339 1381 1386 1388 -
3581. 1395 TO 1397 1403 1404 1418 1422 1423 1445 1451 1453 1454 1495 TO 1497 1500 -
3582. 1508 1513 1516 TO 1521 1524 1566 1571 1573 1580 TO 1582 1588 1589 1603 1607 -
3583. 1608 1630 1636 1638 1639 1680 TO 1682 1685 1693 1698 1781 TO 1706 1709 1751 -
3584. 1756 1758 1765 TO 1767 1773 1774 1788 1792 1793 1815 1821 1823 1824 1865 -
3585. 1866 TO 1867 1870 1878 1883 1886 TO 1891 1894 6370 TO 6372 6378 TO 6380 6384 -
3586. 6385 TO 6386 6390 TO 6392 6396 TO 6398 6402 TO 6404 6408 TO 6410 -
3587. 6414 TO 6416 6420 TO 6422 6426 TO 6428
3588. _LBS 6470 6474 6480 6482 6489 6491 6498 6500 6507 6509 6516 6518 6525 6527 -
3589. 6534 6536 6543 6545 6560 6643 6645 TO 6664 6675 TO 6734 6893 TO 6922 6956 -
3590. 6959 6964 6965 6968 6972 6973 6978 6981
3591. _1 296 TO 298 301 303 317 TO 321 324 326 330 342 352 355 372 TO 374 377 381 -
3592. 382 384 391 TO 393 395 TO 400
3593. _2 487 TO 489 492 494 507 TO 511 514 516 518 530 540 543 557 TO 559 562 566 -
3594. 567 569 576 TO 578 580 TO 585
3595. _250MMTHK 269 271 277 278 281 285 286 288 290 292 295 305 315 406 460 462 -
3596. 468 469 472 476 477 479 481 483 486 496 505 591 645 647 653 654 657 661 662 -
3597. 664 665 668 671 681 690 776 830 832 838 839 842 846 847 849 851 853 856 866 -
3598. 875 961 1015 1017 1023 1024 1027 1031 1032 1034 1036 1038 1041 1051 1060 -
3599. 1146 1200 1202 1208 1209 1212 1216 1217 1219 1221 1223 1226 1236 1245 1331 -
3600. 1385 1387 1393 1394 1397 1401 1402 1404 1406 1408 1411 1421 1430 1516 1570 -
3601. 1572 1578 1579 1582 1586 1587 1589 1591 1593 1596 1606 1615 1701 1755 1757 -
3602. 1763 1764 1767 1771 1772 1774 1776 1778 1781 1791 1800 1886 6350 6352 6354 -
3603. 6356 6358 6360 6362 6364 6366 6470 6480 6489 6498 6507 6516 6525 6534 6543 -
3604. 6572 6578 6584 6590 6596 6602 6608 6614 6620 6854 TO 6856 6858 TO 6860 6862 -
3605. 6863 TO 6864 6866 TO 6868 6870 TO 6872 6874 TO 6876 6878 TO 6880 -
3606. 6882 TO 6884 6886 TO 6888
3607. _225MMTHK 339 349 358 360 364 365 370 379 388 TO 390 403 408 527 537 546 548 -
3608. 549 TO 550 555 564 573 TO 575 588 593 712 722 731 733 TO 735 740 749 -
3609. 758 TO 760 773 778 897 907 916 918 TO 920 925 934 943 TO 945 958 963 1082 -
3610. 1092 1101 1103 TO 1105 1110 1119 1128 TO 1130 1143 1148 1267 1277 1286 1288 -
3611. 1289 TO 1290 1295 1304 1313 TO 1315 1328 1333 1452 1462 1471 1473 TO 1475 -
3612. 1480 1489 1498 TO 1500 1513 1518 1637 1647 1656 1658 TO 1660 1665 1674 1683 -
3613. 1684 TO 1685 1698 1703 1822 1832 1841 1843 TO 1845 1850 1859 1868 TO 1870 -
3614. 1883 1888 6351 6353 6355 6357 6359 6361 6363 6365 6367 6472 6481 6490 6499 -
3615. 6508 6517 6526 6535 6544 6575 6580 6586 6592 6598 6604 6610 6616 6622 6881 -
3616. 6802 TO 6845
3617. END GROUP DEFINITION
3618. ELEMENT PROPERTY
3619. 2330 TO 3159 3301 TO 3864 4012 TO 4581 4796 TO 5359 5477 TO 5852 -
3620. 5970 TO 6345 THICKNESS 0.23
3621. DEFINE MATERIAL START
3622. ISOTROPIC CONCRETE
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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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3623. E 2.17185E+07
3624. POISSON 0.17
3625. DENSITY 23.5616
3626. ALPHA 1E-05
3627. DAMP 0.05
3628. G 9.28139E+06
3629. TYPE CONCRETE
3630. STRENGTH FCU 27579
3631. ISOTROPIC DUMMY
3632. E 100
3633. POISSON 0.3
3634. ALPHA 1.2E-05
3635. DAMP 0.03
3636. G 7.9E+07
3637. END DEFINE MATERIAL
3638. MEMBER PROPERTY
3639. 106 107 109 111 119 125 127 130 131 137 TO 148 151 158 161 163 TO 166 168 -
3640. 169 TO 170 172 174 176 182 TO 186 191 194 195 199 200 202 203 287 289 211 -
3641. 213 216 219 224 225 227 230 233 TO 244 247 252 263 264 266 268 276 281 283 -
3642. 286 287 293 294 296 TO 304 307 314 317 319 TO 322 324 TO 326 330 332 338 -
3643. 339 TO 342 347 350 TO 352 355 356 358 359 365 367 369 372 374 375 377 380 -
3644. 381 TO 384 386 389 TO 400 403 408 454 455 457 459 467 472 474 477 478 484 -
3645. 485 487 TO 495 497 504 507 509 TO 512 514 TO 516 518 520 526 TO 530 535 538 -
3646. 539 TO 540 543 544 546 550 552 554 557 559 560 562 565 TO 569 575 TO 585 588 -
3647. 593 639 640 642 644 652 657 659 662 663 669 670 672 TO 680 682 689 692 694 -
3648. 695 TO 697 699 TO 701 703 705 711 TO 715 720 723 TO 725 728 729 731 735 737 -
3649. 739 742 744 745 747 750 TO 754 760 TO 770 773 778 824 825 827 829 837 842 -
3650. 844 847 848 854 855 857 TO 865 867 874 877 879 TO 882 884 TO 886 888 890 -
3651. 896 TO 900 905 908 TO 910 913 914 916 920 922 924 927 929 930 932 -
3652. 935 TO 939 945 TO 955 958 963 1009 1010 1012 1014 1022 1027 1029 1032 1033 -
3653. 1039 1040 1042 TO 1050 1052 1059 1062 1064 TO 1067 1069 TO 1071 1073 1075 -
3654. 1081 TO 1085 1090 PRIS YD 0.5 ZD 0.23
3655. 1093 TO 1095 1098 6982 TO 6985 PRIS YD 0.5 ZD 0.23
3656. 1099 1101 1105 1107 1109 1112 1114 1115 1117 1120 TO 1124 1130 TO 1140 1143 -
3657. 1148 1194 1195 1197 1199 1207 1212 1214 1217 1218 1224 1225 1227 TO 1235 -
3658. 1237 1244 1247 1249 TO 1252 1254 TO 1256 1258 1260 1266 TO 1270 1275 1278 -
3659. 1279 TO 1280 1283 1284 1286 1290 1292 1294 1297 1299 1300 1302 1305 TO 1309 -
3660. 1315 TO 1325 1328 1333 1379 1380 1382 1384 1392 1397 1399 1402 1403 1409 -
3661. 1410 1412 TO 1420 1422 1429 1432 1434 TO 1437 1439 TO 1441 1443 1445 1451 -
3662. 1452 TO 1455 1460 1463 TO 1465 1468 1469 1471 1475 1477 1479 1482 1484 1485 -
3663. 1487 1490 1491 1493 1500 TO 1502 1504 1505 1507 1564 1567 1577 1582 1584 -
3664. 1598 1601 1614 1617 1620 1622 1625 1645 1648 TO 1650 1654 1660 1662 1664 -
3665. 1667 1670 1675 1676 1678 1685 TO 1687 1689 1690 1692 1749 1751 1752 1761 -
3666. 1767 1769 1783 1786 1793 1799 1802 1805 1807 1810 1818 1830 1833 TO 1835 -
3667. 1839 1845 1847 1849 1852 1855 1860 1861 1863 1867 1870 TO 1872 1874 1875 -
3668. 1877 1887 1889 TO 1891 1894 6373 6472 6473 6481 6490 6499 6508 6517 6526 -
3669. 6545 6548 TO 6551 6559 6574 TO 6577 6966 6981 6986 PRIS YD 0.5 ZD 0.23
3670. 6580 6582 6583 6586 6588 6589 6592 6594 6595 6598 6600 6601 6604 6606 6607 -
3671. 6610 6612 6613 6618 6619 6624 6625 PRIS YD 0.5 ZD 0.23
3672. 132 218 221 226 228 250 1492 1494 1503 1506 1508 TO 1510 1513 1518 1565 1569 -
3673. 1587 1588 1594 1595 1597 1599 1600 1602 TO 1605 1607 1619 1621 1624 1626 -
3674. 1628 1630 1636 TO 1640 1653 1656 1669 1672 1677 1679 1688 1691 1693 TO 1695 -
3675. 1698 1703 1750 1754 1772 1773 1779 1780 1782 1784 1785 1787 TO 1790 1792 -
3676. 1804 1806 1809 1811 1813 1815 1821 TO 1825 1838 1841 1854 1857 1862 1864 -
3677. 1873 1876 1878 TO 1880 1883 1888 1919 1925 1928 1938 1939 1947 1949 1950 -
3678. 1958 TO 1961 1963 TO 1967 2071 2076 2079 6484 6493 6502 6511 6520 6529 6535 -
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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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3679. 6538 6544 6547 6581 6587 6593 6599 6605 6611 6616 6617 6622 -
3680. 6623 PRIS YD 0.5 ZD 0.23
3681. 110 112 TO 118 120 121 123 124 126 128 129 134 136 149 150 154 155 157 159 -
3682. 160 162 167 171 173 181 187 TO 190 192 193 196 TO 198 201 204 208 210 212 -
3683. 214 215 217 220 222 223 229 231 245 267 269 TO 275 277 TO 280 282 284 285 -
3684. 288 290 292 295 305 310 311 313 315 316 318 323 329 337 343 TO 346 348 349 -
3685. 353 354 357 360 364 366 368 370 371 373 376 378 379 385 388 401 406 458 460 -
3686. 461 TO 466 468 TO 471 473 475 476 479 481 483 486 496 500 501 503 505 506 -
3687. 508 513 517 525 531 TO 534 536 537 541 542 545 547 TO 549 551 553 555 556 -
3688. 558 561 563 564 570 571 573 574 586 591 643 645 TO 651 653 TO 656 658 660 -
3689. 661 664 666 668 671 681 685 686 688 690 691 693 698 702 710 716 TO 719 721 -
3690. 722 726 727 730 732 TO 734 736 738 740 741 743 746 748 749 755 756 758 759 -
3691. 771 776 828 830 TO 836 838 TO 841 843 845 846 849 851 853 856 866 870 871 -
3692. 873 875 876 878 883 887 895 901 TO 904 906 907 911 913 915 917 TO 919 921 -
3693. 923 925 926 928 931 933 934 940 941 943 944 956 961 1013 1015 TO 1021 1023 -
3694. 1024 TO 1026 1028 1030 1031 1034 1036 1038 1041 1051 1055 1056 1058 1060 -
3695. 1061 1063 1068 1072 1080 1086 TO 1089 1091 1092 1096 1097 1100 1102 TO 1104 -
3696. 1106 1108 PRIS YD 0.6 ZD 0.23
3697. 1110 1111 1113 1116 1118 1119 1125 1126 1128 1129 1226 1411 1596 1781 6572 -
3698. 6578 6584 6590 6596 6602 6608 6614 6620 PRIS YD 0.6 ZD 0.23
3699. 1141 1146 1198 1200 TO 1206 1208 TO 1211 1213 1215 1216 1219 1221 1223 1236 -
3700. 1240 1331 1404 1516 1589 1701 1774 1886 6470 6471 6480 6483 6489 6492 6498 -
3701. 6501 6507 6510 6516 6519 6525 6528 6534 6537 6543 6546 6573 6579 6585 6591 -
3702. 6597 6603 6609 6615 6621 PRIS YD 0.6 ZD 0.23
3703. 1913 1914 1917 1918 1922 1927 1929 1930 1932 TO 1934 1937 1944 1951 TO 1952 -
3704. 1953 PRIS YD 0.6 ZD 0.23
3705. 1241 1243 1245 1246 1248 1253 1257 1265 1271 TO 1274 1276 1277 1281 1282 -
3706. 1285 1287 TO 1289 1291 1293 1295 1296 1298 1301 1303 1304 1310 1311 1313 -
3707. 1314 1326 1383 1385 TO 1391 1393 TO 1396 1398 1400 1401 1406 1408 1421 1425 -
3708. 1426 1428 1430 1431 1433 1438 1442 1450 1456 TO 1459 1461 1462 1466 1467 -
3709. 1470 1472 TO 1474 1476 1478 1480 1481 1483 1486 1488 1489 1495 1496 1498 -
3710. 1499 1511 1568 1570 TO 1576 1578 TO 1581 1583 1585 1586 1591 1593 1606 1610 -
3711. 1611 1613 1615 1616 1618 1623 1627 1635 1641 TO 1644 1646 1647 1651 1652 -
3712. 1655 1657 TO 1659 1661 1663 1665 1666 1668 1671 1673 1674 1680 1681 1683 -
3713. 1684 1696 1753 1755 TO 1761 1763 TO 1766 1768 1770 1771 1776 1778 1791 1795 -
3714. 1796 1798 1800 1801 1803 1808 1812 1820 1826 TO 1829 1831 1832 1836 1837 -
3715. 1840 1842 TO 1844 1846 1848 1850 1851 1853 1856 1858 1859 1865 1866 1868 -
3716. 1869 1881 PRIS YD 0.6 ZD 0.23
3717. 152 179 248 251 253 258 308 335 404 407 409 414 498 523 589 592 594 599 683 -
3718. 708 774 777 779 784 868 893 959 962 964 969 1053 1078 1144 1147 1149 1154 -
3719. 1238 1263 1329 1332 1334 1339 1423 1448 1514 1517 1519 1524 1608 1633 1699 -
3720. 1702 1704 1709 1884 6474 TO 6479 6482 6485 TO 6488 6491 6494 TO 6497 6500 -
3721. 6503 TO 6506 6509 6512 TO 6515 6518 6521 TO 6524 6527 6530 TO 6533 6536 -
3722. 6539 TO 6542 6552 TO 6558 6560 TO 6565 6642 6643 6956 6957 6959 -
3723. 6961 TO 6965 6968 6970 6972 TO 6974 6977 6978 6980 PRIS YD 0.45 ZD 0.23
3724. 108 231 265 387 456 572 641 757 826 942 1011 1127 1196 1312 1381 1497 1566 -
3725. 1682 PRIS YD 0.4 ZD 0.23
3726. 254 255 410 411 595 596 780 781 965 966 1150 1151 1335 1336 1520 1521 1705 -
3727. 1706 PRIS YD 0.45 ZD 0.23
3728. 175 246 331 402 519 587 704 771 889 957 1074 1142 1259 1327 1444 1512 1629 -
3729. 1697 1814 1882 PRIS YD 0.5 ZD 0.23
3730. 3 TO 7 10 11 29 30 32 33 38 TO 42 45 46 64 65 67 68 73 TO 77 80 81 99 100 -
3731. 102 103 421 TO 425 428 429 447 448 450 451 606 TO 610 613 614 632 633 635 -
3732. 636 791 TO 795 798 799 817 818 820 821 976 TO 980 983 984 1002 1003 1005 -
3734. 1006 1161 TO 1165 1168 1169 1187 1188 1190 1191 1346 TO 1350 1353 1354 1372 -
3734. 1373 1375 1376 1531 TO 1535 1538 1539 1557 1558 1560 1561 1716 TO 1720 1723 -
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3-B, RAMANIYAM GAURAVV - 2
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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841259758

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3735. 1724 1742 1743 1745 1746 1954 TO 1957 PRIS YD 0.3 ZD 0.8
3736. 1 2 8 9 12 13 18 19 24 TO 28 31 34 TO 37 43 44 47 48 53 54 59 TO 63 66 69 -
3737. 70 TO 72 78 79 82 83 88 89 94 TO 98 101 104 105 419 420 426 427 430 431 436 -
3738. 437 442 TO 446 449 452 453 604 605 611 612 615 616 621 622 627 TO 631 634 -
3739. 637 638 789 798 796 797 800 801 806 807 812 TO 816 819 822 823 974 975 981 -
3740. 982 985 986 991 992 997 TO 1001 1004 1007 1008 1159 1160 1166 1167 1170 -
3741. 1171 1176 1177 1182 TO 1186 1189 1192 1193 1344 1345 1351 1352 1355 1356 -
3742. 1361 1362 1367 TO 1371 1374 1377 1378 1529 1530 1536 1537 1540 1541 1546 -
3743. 1547 1552 TO 1556 1559 1562 1563 1714 1715 1721 1722 1725 1726 1731 1732 -
3744. 1737 TO 1741 1744 1747 1748 1899 1900 1905 1906 1911 -
3745. 1912 PRIS YD 0.8 ZD 0.3
3746. 6348 TO 6372 6375 TO 6430 6566 TO 6571 6645 TO 6955 6987 TO 7084 -
3747. 7085 PRIS YD 0.23 ZD 0.23
3748. 1968 TO 1976 1983 TO 1989 1991 TO 2002 2006 2011 TO 2020 2023 TO 2025 2032 -
3749. 2034 2037 TO 2039 2042 TO 2046 2049 2050 2053 TO 2059 2061 2063 -
3750. 6441 TO 6443 6626 TO 6641 PRIS YD 0.6 ZD 0.3
3751. CONSTANTS
3752. MATERIAL CONCRETE MEMB 1 TO 13 18 19 24 TO 48 53 54 59 TO 83 88 89 94 TO 121 -
3753. 123 TO 132 134 136 TO 152 154 155 157 TO 176 179 181 TO 204 207 TO 248 250 -
3754. 251 TO 255 258 263 TO 288 290 292 TO 305 307 308 310 311 313 TO 326 -
3755. 329 TO 332 335 337 TO 360 364 TO 404 406 TO 411 414 419 TO 431 436 437 442 -
3756. 443 TO 479 481 483 TO 498 500 501 503 TO 520 523 525 TO 589 591 TO 596 599 -
3757. 604 TO 616 621 622 627 TO 664 666 668 TO 683 685 686 688 TO 705 708 -
3758. 710 TO 774 776 TO 781 784 789 TO 801 806 807 812 TO 849 851 853 TO 868 870 -
3759. 871 873 TO 890 893 895 TO 959 961 TO 966 969 974 TO 986 991 992 997 TO 1034 -
3760. 1036 1038 TO 1053 1055 1056 1058 TO 1075 1078 1080 TO 1144 1146 TO 1151 -
3761. 1154 1159 TO 1171 1176 1177 1182 TO 1219 1221 1223 TO 1238 1240 1241 1243 -
3762. 1244 TO 1260 1263 1265 TO 1329 1331 TO 1336 1339 1344 TO 1356 1361 1362 1367 -
3763. 1368 TO 1404 1406 1408 TO 1423 1425 1426 1428 TO 1445 1448 1450 TO 1514 1516 -
3764. 1517 TO 1521 1524 1529 TO 1541 1546 1547 1552 TO 1589 1591 1593 TO 1608 1610 -
3765. 1611 1613 TO 1630 1633 1635 TO 1699 1701 TO 1706 1709 1714 TO 1726 1731 -
3766. 1732 1737 TO 1774 1776 1778 TO 1793 1795 1796 1798 TO 1815 1818 -
3767. 1820 TO 1884 1886 TO 1891 1894 1899 1900 1905 1906 1911 TO 1914 -
3768. 1917 TO 1919 1922
3769. MATERIAL CONCRETE MEMB 1925 1927 TO 1930 1932 TO 1934 1937 TO 1939 1944 1947 -
3770. 1949 TO 1961 1963 TO 1976 1983 TO 1989 1991 TO 2002 2006 2011 TO 2020 2023 -
3771. 2024 TO 2025 2032 2034 2037 TO 2039 2042 TO 2046 2049 2050 2053 TO 2059 2061 -
3772. 2063 2071 2076 2079 2330 TO 3159 3381 TO 3864 4812 TO 4581 4796 TO 5359 -
3773. 5477 TO 5852 5970 TO 6345 6373 6441 TO 6443 6470 TO 6565 6572 TO 6643 6956 -
3774. 6957 6959 6961 TO 6966 6968 6970 6972 TO 6974 6977 6978 6980 TO 6986
3775. MATERIAL DUMMY MEMB 6348 TO 6372 6375 TO 6430 6566 TO 6571 6645 TO 6955 6987 -
3776. 6988 TO 7085
3777. SUPPORTS
3778. 1 TO 35 1405 TO 1409 2189 TO 2193 2745 TO 2749 3386 TO 3390 3928 TO 3930 -
3779. 4294 TO 4296 FIXED
3780. CUT OFF MODE SHAPE 50
3781. DEFINE REFERENCE LOADS

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


3782. LOAD R1 LOADTYPE MASS  TITLE REF MASS MODEL
3783. MEMBER LOAD
3784. 112 114 119 TO 121 128 TO 130 134 136 139 TO 141 143 TO 145 147 TO 149 158 -
3785. 161 TO 165 200 TO 202 204 209 211 214 216 217 219 221 223 225 227 228 232 -
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3786. 233 235 TO 237 241 243 271 276 TO 278 284 TO 286 290 292 295 TO 297 -
3787. 299 TO 301 303 TO 305 314 317 TO 321 356 TO 358 360 365 367 370 372 373 375 -
3788. 377 379 381 383 384 388 389 391 TO 393 397 399 462 467 TO 469 475 TO 477 -
3789. 481 483 486 TO 488 490 TO 492 494 TO 496 504 507 TO 511 544 TO 546 548 550 -
3790. 552 555 557 558 560 562 564 566 568 569 573 574 576 TO 578 582 584 647 652 -
3791. 653 TO 654 660 TO 662 666 668 671 TO 673 675 TO 677 679 TO 681 689 -
3792. 692 TO 696 729 TO 731 733 735 737 740 742 743 745 747 749 751 753 754 758 -
3793. 759 761 TO 763 767 769 832 837 TO 839 845 TO 847 851 853 856 TO 858 -
3794. 860 TO 862 864 TO 866 874 877 TO 881 914 TO 916 918 920 922 925 927 928 930 -
3795. 932 934 936 938 939 943 944 946 TO 948 952 954 1017 1022 TO 1024 -
3796. 1030 TO 1032 1036 1038 1041 TO 1043 1045 TO 1047 1049 TO 1051 1059 -
3797. 1062 TO 1066 1099 TO 1101 1103 1105 1107 1110 1112 1113 1115 1117 1119 1121 -
3798. 1123 1124 1128 1129 1131 TO 1133 1137 1139 1202 1207 TO 1209 1215 TO 1217 -
3799. 1221 1223 1226 TO 1228 1230 6572 6574 UNI GX 5
3800. 6984 UNI GX 5
3801. 112 114 119 TO 121 128 TO 130 134 136 139 TO 141 143 TO 145 147 TO 149 158 -
3802. 161 TO 165 200 TO 202 204 209 211 214 216 217 219 221 223 225 227 228 232 -
3803. 233 235 TO 237 241 243 271 276 TO 278 284 TO 286 290 292 295 TO 297 -
3804. 299 TO 301 303 TO 305 314 317 TO 321 356 TO 358 360 365 367 370 372 373 375 -
3805. 377 379 381 383 384 388 389 391 TO 393 397 399 462 467 TO 469 475 TO 477 -
3806. 481 483 486 TO 488 490 TO 492 494 TO 496 504 507 TO 511 544 TO 546 548 550 -
3807. 552 555 557 558 560 562 564 566 568 569 573 574 576 TO 578 582 584 647 652 -
3808. 653 TO 654 660 TO 662 666 668 671 TO 673 675 TO 677 679 TO 681 689 -
3809. 692 TO 696 729 TO 731 733 735 737 740 742 743 745 747 749 751 753 754 758 -
3810. 759 761 TO 763 767 769 832 837 TO 839 845 TO 847 851 853 856 TO 858 -
3811. 860 TO 862 864 TO 866 874 877 TO 881 914 TO 916 918 920 922 925 927 928 930 -
3812. 932 934 936 938 939 943 944 946 TO 948 952 954 1017 1022 TO 1024 -
3813. 1030 TO 1032 1036 1038 1041 TO 1043 1045 TO 1047 1049 TO 1051 1059 -
3814. 1062 TO 1066 1099 TO 1101 1103 1105 1107 1110 1112 1113 1115 1117 1119 1121 -
3815. 1123 1124 1128 1129 1131 TO 1133 1137 1139 1202 1207 TO 1209 1215 TO 1217 -
3816. 1221 1223 1226 TO 1228 1230 6572 6574 UNI GY 5
3817. 6984 UNI GY 5
3818. 112 114 119 TO 121 128 TO 130 134 136 139 TO 141 143 TO 145 147 TO 149 158 -
3819. 161 TO 165 200 TO 202 204 209 211 214 216 217 219 221 223 225 227 228 232 -
3820. 233 235 TO 237 241 243 271 276 TO 278 284 TO 286 290 292 295 TO 297 -
3821. 299 TO 301 303 TO 305 314 317 TO 321 356 TO 358 360 365 367 370 372 373 375 -
3822. 377 379 381 383 384 388 389 391 TO 393 397 399 462 467 TO 469 475 TO 477 -
3823. 481 483 486 TO 488 490 TO 492 494 TO 496 504 507 TO 511 544 TO 546 548 550 -
3824. 552 555 557 558 560 562 564 566 568 569 573 574 576 TO 578 582 584 647 652 -
3825. 653 TO 654 660 TO 662 666 668 671 TO 673 675 TO 677 679 TO 681 689 -
3826. 692 TO 696 729 TO 731 733 735 737 740 742 743 745 747 749 751 753 754 758 -
3827. 759 761 TO 763 767 769 832 837 TO 839 845 TO 847 851 853 856 TO 858 -
3828. 860 TO 862 864 TO 866 874 877 TO 881 914 TO 916 918 920 922 925 927 928 930 -
3829. 932 934 936 938 939 943 944 946 TO 948 952 954 1017 1022 TO 1024 -
3830. 1030 TO 1032 1036 1038 1041 TO 1043 1045 TO 1047 1049 TO 1051 1059 -
3831. 1062 TO 1066 1099 TO 1101 1103 1105 1107 1110 1112 1113 1115 1117 1119 1121 -
3832. 1123 1124 1128 1129 1131 TO 1133 1137 1139 1202 1207 TO 1209 1215 TO 1217 -
3833. 1221 1223 1226 TO 1228 1230 6572 6574 UNI GZ 5
3834. 6984 UNI GZ 5
3835. MEMBER LOAD
3836. 6575 6577 6578 6580 6582 TO 6584 6586 6588 TO 6590 6592 6594 TO 6596 6598 -
3837. 6600 TO 6602 6606 6607 6612 6613 6618 6619 6980 UNI GX 5
3838. 6575 6577 6578 6580 6582 TO 6584 6586 6588 TO 6590 6592 6594 TO 6596 6598 -
3839. 6600 TO 6602 6606 6607 6612 6613 6618 6619 6986 UNI GY 5
3840. 6575 6577 6578 6580 6582 TO 6584 6586 6588 TO 6590 6592 6594 TO 6596 6598 -
3841. 6600 TO 6602 6606 6607 6612 6613 6618 6619 6986 UNI GZ 5
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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 GAURAV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841263184

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3842. MEMBER LOAD
3843. 6373 UNI GX 5
3844. 6373 UNI GY 5
3845. 6373 UNI GZ 5
3846. MEMBER LOAD
3847. 2058 2059 UNI GX 5
3848. 2058 2059 UNI GY 5
3849. 2058 2059 UNI GZ 5
3850. MEMBER LOAD
3851. 1231 1232 1234 TO 1236 1244 1247 TO 1251 1284 TO 1286 1288 1290 1292 1295 -
3852. 1297 1298 1300 1302 1304 1306 1308 1309 1313 1314 1316 TO 1318 1322 1324 -
3853. 1387 1392 TO 1394 1400 TO 1402 1406 1408 1411 TO 1413 1415 TO 1417 -
3854. 1419 TO 1421 1429 1432 TO 1436 1469 TO 1471 1473 1475 1477 1480 1482 1483 -
3855. 1485 1487 1489 1491 1493 1494 1498 1499 1501 TO 1503 1507 1509 1572 1577 -
3856. 1578 TO 1579 1585 TO 1587 1591 1593 1596 TO 1598 1600 TO 1602 1604 TO 1606 -
3857. 1614 1617 TO 1621 1654 TO 1656 1658 1660 1662 1665 1667 1668 1670 1672 1674 -
3858. 1676 1678 1679 1683 1684 1686 TO 1688 1692 1694 6604 6608 6610 6614 -
3859. 6616 UNI GX 5
3860. 1231 1232 1234 TO 1236 1244 1247 TO 1251 1284 TO 1286 1288 1290 1292 1295 -
3861. 1297 1298 1300 1302 1304 1306 1308 1309 1313 1314 1316 TO 1318 1322 1324 -
3862. 1387 1392 TO 1394 1400 TO 1402 1406 1408 1411 TO 1413 1415 TO 1417 -
3863. 1419 TO 1421 1429 1432 TO 1436 1469 TO 1471 1473 1475 1477 1480 1482 1483 -
3864. 1485 1487 1489 1491 1493 1494 1498 1499 1501 TO 1503 1507 1509 1572 1577 -
3865. 1578 TO 1579 1585 TO 1587 1591 1593 1596 TO 1598 1600 TO 1602 1604 TO 1606 -
3866. 1614 1617 TO 1621 1654 TO 1656 1658 1660 1662 1665 1667 1668 1670 1672 1674 -
3867. 1676 1678 1679 1683 1684 1686 TO 1688 1692 1694 6604 6608 6610 6614 -
3868. 6616 UNI GY 5
3869. 1231 1232 1234 TO 1236 1244 1247 TO 1251 1284 TO 1286 1288 1290 1292 1295 -
3870. 1297 1298 1300 1302 1304 1306 1308 1309 1313 1314 1316 TO 1318 1322 1324 -
3871. 1387 1392 TO 1394 1400 TO 1402 1406 1408 1411 TO 1413 1415 TO 1417 -
3872. 1419 TO 1421 1429 1432 TO 1436 1469 TO 1471 1473 1475 1477 1480 1482 1483 -
3873. 1485 1487 1489 1491 1493 1494 1498 1499 1501 TO 1503 1507 1509 1572 1577 -
3874. 1578 TO 1579 1585 TO 1587 1591 1593 1596 TO 1598 1600 TO 1602 1604 TO 1606 -
3875. 1614 1617 TO 1621 1654 TO 1656 1658 1660 1662 1665 1667 1668 1670 1672 1674 -
3876. 1676 1678 1679 1683 1684 1686 TO 1688 1692 1694 6604 6608 6610 6614 -
3877. 6616 UNI GZ 5
3878. MEMBER LOAD
3879. 106 107 109 111 113 115 118 123 TO 127 138 142 155 166 TO 170 174 175 187 -
3880. 188 TO 189 191 192 194 TO 196 198 199 203 213 215 218 222 224 226 229 230 -
3881. 234 238 TO 240 244 246 254 255 263 264 266 268 270 272 274 275 279 TO 283 -
3882. 294 298 311 322 TO 326 330 331 343 TO 345 347 348 350 TO 352 354 355 359 -
3883. 369 371 374 378 380 382 385 386 390 394 TO 396 400 402 410 411 454 455 457 -
3884. 459 461 463 465 466 470 TO 474 485 489 501 512 TO 516 518 519 531 TO 533 -
3885. 535 536 538 TO 540 542 543 547 554 556 559 563 565 567 570 571 575 -
3886. 579 TO 581 585 587 595 596 639 640 642 644 646 648 650 651 655 TO 659 670 -
3887. 674 686 697 TO 701 703 704 716 TO 718 720 721 723 TO 725 727 728 732 739 -
3888. 741 744 748 750 752 755 756 760 764 TO 766 770 772 780 781 824 825 827 829 -
3889. 831 833 835 836 840 TO 844 855 859 871 882 TO 886 888 889 901 TO 903 905 -
3890. 906 908 TO 910 912 913 917 924 926 929 933 935 937 940 941 945 949 TO 951 -
3891. 955 957 965 966 1009 1010 1012 1014 1016 1018 1020 1021 1025 TO 1029 1040 -
3892. 1044 1056 1067 TO 1071 1073 1074 1086 TO 1088 1090 1091 1093 TO 1095 1097 -
3893. 1098 1102 1109 1111 1114 1118 1120 1122 1125 1126 1130 1134 TO 1135 -
3894. 1136 UNI GX 6
3895. 106 107 109 111 113 115 118 123 TO 127 138 142 155 166 TO 170 174 175 187 -
3896. 188 TO 189 191 192 194 TO 196 198 199 203 213 215 218 222 224 226 229 230 -
3897. 234 238 TO 240 244 246 254 255 263 264 266 268 270 272 274 275 279 TO 283 -
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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 GAURAV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841289154

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3898. 294 298 311 322 TO 326 330 331 343 TO 345 347 348 350 TO 352 354 355 359 -
3899. 369 371 374 378 380 382 385 386 390 394 TO 396 400 402 410 411 454 455 457 -
3900. 459 461 463 465 466 470 TO 474 485 489 501 512 TO 516 518 519 531 TO 533 -
3901. 535 536 538 TO 540 542 543 547 554 556 559 563 565 567 570 571 575 -
3902. 579 TO 581 585 587 595 596 639 640 642 644 646 648 650 651 655 TO 659 670 -
3903. 674 686 697 TO 701 703 704 716 TO 718 720 721 723 TO 725 727 728 732 739 -
3904. 741 744 748 750 752 755 756 760 764 TO 766 770 772 780 781 824 825 827 829 -
3905. 831 833 835 836 840 TO 844 855 859 871 882 TO 886 888 889 901 TO 903 905 -
3906. 906 908 TO 910 912 913 917 924 926 929 933 935 937 940 941 945 949 TO 951 -
3907. 955 957 965 966 1009 1010 1012 1014 1016 1018 1020 1021 1025 TO 1029 1040 -
3908. 1044 1056 1067 TO 1071 1073 1074 1086 TO 1088 1090 1091 1093 TO 1095 1097 -
3909. 1098 1102 1109 1111 1114 1118 1120 1122 1125 1126 1130 1134 TO 1135 -
3910. 1136 UNI GY 6
3911. 106 107 109 111 113 115 118 123 TO 127 138 142 155 166 TO 170 174 175 187 -
3912. 188 TO 189 191 192 194 TO 196 198 199 203 213 215 218 222 224 226 229 230 -
3913. 234 238 TO 240 244 246 254 255 263 264 266 268 270 272 274 275 279 TO 283 -
3914. 294 298 311 322 TO 326 330 331 343 TO 345 347 348 350 TO 352 354 355 359 -
3915. 369 371 374 378 380 382 385 386 390 394 TO 396 400 402 410 411 454 455 457 -
3916. 459 461 463 465 466 470 TO 474 485 489 501 512 TO 516 518 519 531 TO 533 -
3917. 535 536 538 TO 540 542 543 547 554 556 559 563 565 567 570 571 575 -
3918. 579 TO 581 585 587 595 596 639 640 642 644 646 648 650 651 655 TO 659 670 -
3919. 674 686 697 TO 701 703 704 716 TO 718 720 721 723 TO 725 727 728 732 739 -
3920. 741 744 748 750 752 755 756 760 764 TO 766 770 772 780 781 824 825 827 829 -
3921. 831 833 835 836 840 TO 844 855 859 871 882 TO 886 888 889 901 TO 903 905 -
3922. 906 908 TO 910 912 913 917 924 926 929 933 935 937 940 941 945 949 TO 951 -
3923. 955 957 965 966 1009 1010 1012 1014 1016 1018 1020 1021 1025 TO 1029 1040 -
3924. 1044 1056 1067 TO 1071 1073 1074 1086 TO 1088 1090 1091 1093 TO 1095 1097 -
3925. 1098 1102 1109 1111 1114 1118 1120 1122 1125 1126 1130 1134 TO 1135 -
3926. 1136 UNI GZ 6
3927. MEMBER LOAD
3928. 2054 2056 2061 2063 UNI GX 6
3929. 2054 2056 2061 2063 UNI GY 6
3930. 2054 2056 2061 2063 UNI GZ 6
3931. MEMBER LOAD
3932. 1140 1142 1150 1151 1194 1195 1197 1199 1201 1203 1205 1206 1210 TO 1214 -
3933. 1225 1229 1241 1252 TO 1256 1258 1259 1271 TO 1273 1275 1276 1278 TO 1280 -
3934. 1282 1283 1287 1294 1296 1299 1303 1305 1307 1310 1311 1315 1319 TO 1321 -
3935. 1325 1327 1335 1336 1379 1380 1382 1384 1386 1388 1390 1391 1395 TO 1399 -
3936. 1410 1414 1426 1437 TO 1441 1443 1444 1456 TO 1458 1460 1461 1463 TO 1465 -
3937. 1467 1468 1472 1479 1481 1484 1488 1490 1492 1495 1496 1500 1504 TO 1506 -
3938. 1510 1512 1520 1521 1564 1565 1567 1569 1571 1573 1575 1576 1580 TO 1584 -
3939. 1595 1599 1611 1622 TO 1626 1628 1629 1641 TO 1643 1645 1646 1648 TO 1650 -
3940. 1652 1653 1657 1664 1666 1669 1673 1675 1677 1680 1681 1685 1689 TO 1691 -
3941. 1695 1697 1705 1706 1719 1755 1757 1765 1766 1771 1890 1891 1986 TO 1988 -
3942. 1994 1995 1997 2042 TO 2044 2053 6634 UNI GX 6
3943. 1140 1142 1150 1151 1194 1195 1197 1199 1201 1203 1205 1206 1210 TO 1214 -
3944. 1225 1229 1241 1252 TO 1256 1258 1259 1271 TO 1273 1275 1276 1278 TO 1280 -
3945. 1282 1283 1287 1294 1296 1299 1303 1305 1307 1310 1311 1315 1319 TO 1321 -
3946. 1325 1327 1335 1336 1379 1380 1382 1384 1386 1388 1390 1391 1395 TO 1399 -
3947. 1410 1414 1426 1437 TO 1441 1443 1444 1456 TO 1458 1460 1461 1463 TO 1465 -
3948. 1467 1468 1472 1479 1481 1484 1488 1490 1492 1495 1496 1500 1504 TO 1506 -
3949. 1510 1512 1520 1521 1564 1565 1567 1569 1571 1573 1575 1576 1580 TO 1584 -
3950. 1595 1599 1611 1622 TO 1626 1628 1629 1641 TO 1643 1645 1646 1648 TO 1650 -
3951. 1652 1653 1657 1664 1666 1669 1673 1675 1677 1680 1681 1685 1689 TO 1691 -
3952. 1695 1697 1705 1706 1719 1755 1757 1765 1766 1771 1890 1891 1986 TO 1988 -
3953. 1994 1995 1997 2042 TO 2044 2053 6634 UNI GY 6
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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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3954. 1140 1142 1150 1151 1194 1195 1197 1199 1201 1203 1205 1206 1210 TO 1214 -
3955. 1225 1229 1241 1252 TO 1256 1258 1259 1271 TO 1273 1275 1276 1278 TO 1280 -
3956. 1282 1283 1287 1294 1296 1299 1303 1305 1307 1310 1311 1315 1319 TO 1321 -
3957. 1325 1327 1335 1336 1379 1380 1382 1384 1386 1388 1390 1391 1395 TO 1399 -
3958. 1410 1414 1426 1437 TO 1441 1443 1444 1456 TO 1458 1460 1461 1463 TO 1465 -
3959. 1467 1468 1472 1479 1481 1484 1488 1490 1492 1495 1496 1500 1504 TO 1506 -
3960. 1510 1512 1520 1521 1564 1565 1567 1569 1571 1573 1575 1576 1580 TO 1584 -
3961. 1595 1599 1611 1622 TO 1626 1628 1629 1641 TO 1643 1645 1646 1648 TO 1650 -
3962. 1652 1653 1657 1664 1666 1669 1673 1675 1677 1680 1681 1685 1689 TO 1691 -
3963. 1695 1697 1705 1706 1719 1755 1757 1765 1766 1771 1890 1891 1986 TO 1988 -
3964. 1994 1995 1997 2042 TO 2044 2053 6634 UNI GZ 6
3965. MEMBER LOAD
3966. 108 110 116 157 173 190 210 212 231 245 265 267 273 313 329 346 366 368 387 -
3967. 401 456 458 464 503 517 534 551 553 572 586 641 643 649 688 702 719 736 738 -
3968. 757 771 826 828 834 873 887 904 921 923 942 956 1011 1013 1019 1058 1072 -
3969. 1089 1106 1108 1127 1141 1196 1198 1204 1243 1257 1274 1291 1293 1312 1326 -
3970. 1381 1383 1389 1428 1442 1459 1476 1478 1497 1511 1566 1568 1574 1613 1627 -
3971. 1644 1661 1663 1682 1696 1749 TO 1752 1754 1761 1768 1769 1780 1784 1796 -
3972. 1807 1809 TO 1811 1813 1827 1828 1830 1831 1833 TO 1838 1842 1849 1854 1858 -
3973. 1860 1862 1867 1874 TO 1876 1880 UNI GX 3
3974. 108 110 116 157 173 190 210 212 231 245 265 267 273 313 329 346 366 368 387 -
3975. 401 456 458 464 503 517 534 551 553 572 586 641 643 649 688 702 719 736 738 -
3976. 757 771 826 828 834 873 887 904 921 923 942 956 1011 1013 1019 1058 1072 -
3977. 1089 1106 1108 1127 1141 1196 1198 1204 1243 1257 1274 1291 1293 1312 1326 -
3978. 1381 1383 1389 1428 1442 1459 1476 1478 1497 1511 1566 1568 1574 1613 1627 -
3979. 1644 1661 1663 1682 1696 1749 TO 1752 1754 1761 1768 1769 1780 1784 1796 -
3980. 1807 1809 TO 1811 1813 1827 1828 1830 1831 1833 TO 1838 1842 1849 1854 1858 -
3981. 1860 1862 1867 1874 TO 1876 1880 UNI GY 3
3982. 108 110 116 157 173 190 210 212 231 245 265 267 273 313 329 346 366 368 387 -
3983. 401 456 458 464 503 517 534 551 553 572 586 641 643 649 688 702 719 736 738 -
3984. 757 771 826 828 834 873 887 904 921 923 942 956 1011 1013 1019 1058 1072 -
3985. 1089 1106 1108 1127 1141 1196 1198 1204 1243 1257 1274 1291 1293 1312 1326 -
3986. 1381 1383 1389 1428 1442 1459 1476 1478 1497 1511 1566 1568 1574 1613 1627 -
3987. 1644 1661 1663 1682 1696 1749 TO 1752 1754 1761 1768 1769 1780 1784 1796 -
3988. 1807 1809 TO 1811 1813 1827 1828 1830 1831 1833 TO 1838 1842 1849 1854 1858 -
3989. 1860 1862 1867 1874 TO 1876 1880 UNI GZ 3
3990. FLOOR LOAD
3991. YRANGE 4.35 36.2 FLOAD 3.125 GX
3992. YRANGE 4.35 36.2 FLOAD 3.125 GY
3993. YRANGE 4.35 36.2 FLOAD 3.125 GZ
3994. FLOOR LOAD
3995. YRANGE 4.35 28.7 FLOAD 1.2 GX
3996. YRANGE 4.35 28.7 FLOAD 1.2 GY
3997. YRANGE 4.35 28.7 FLOAD 1.2 GZ
3998. FLOOR LOAD
3999. _WT FLOAD 15 GX
4000. _WT FLOAD 15 GY
4001. _WT FLOAD 15 GZ
4002. FLOOR LOAD
4003. _FWT FLOAD 15 GX
4004. _FWT FLOAD 15 GY
4005. _FWT FLOAD 15 GZ
4006. MEMBER LOAD
4007. 1913 1914 1917 1922 1927 1937 1944 UNI GX 15.5
4008. 1913 1914 1917 1922 1927 1937 1944 UNI GY 15.5
4009. 1913 1914 1917 1922 1927 1937 1944 UNI GZ 15.5
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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4010. MEMBER LOAD
4011. 1918 1929 1930 1932 TO 1934 UNI GX 17.825
4012. 1918 1929 1930 1932 TO 1934 UNI GY 17.825
4013. 1918 1929 1930 1932 TO 1934 UNI GZ 17.825
4014. MEMBER LOAD
4015. 1958 TO 1961 1963 1964 1967 UNI GX 11.625
4016. 1958 TO 1961 1963 1964 1967 UNI GY 11.625
4017. 1958 TO 1961 1963 1964 1967 UNI GZ 11.625
4018. MEMBER LOAD
4019. 1958 TO 1961 1963 UNI GX 6.84
4020. 1958 TO 1961 1963 UNI GY 6.84
4021. 1958 TO 1961 1963 UNI GZ 6.84
4022. MEMBER LOAD
4023. 1964 1967 UNI GX 8.7
4024. 1964 1967 UNI GY 8.7
4025. 1964 1967 UNI GZ 8.7
4026. MEMBER LOAD
4027. 1913 1914 1917 1922 UNI GX 19.08
4028. 1913 1914 1917 1922 UNI GY 19.08
4029. 1913 1914 1917 1922 UNI GZ 19.08
4030. MEMBER LOAD
4031. 1918 UNI GX 20.45
4032. 1918 UNI GY 20.45
4033. 1918 UNI GZ 20.45
4034. MEMBER LOAD
4035. 1929 1932 1933 UNI GX 30.85
4036. 1929 1932 1933 UNI GY 30.85
4037. 1929 1932 1933 UNI GZ 30.85
4038. FLOOR LOAD
4039. _WT3 FLOAD 15 GX
4040. _WT3 FLOAD 15 GY
4041. _WT3 FLOAD 15 GZ
4042. MEMBER LOAD
4043. 131 132 137 146 151 152 154 176 179 181 TO 186 242 247 250 TO 253 258 287 -
4044. 288 293 302 307 308 310 332 335 337 TO 342 398 403 406 TO 409 414 478 479 -
4045. 484 493 497 498 500 520 523 525 TO 530 583 588 591 TO 594 599 663 664 669 -
4046. 678 682 683 685 705 708 710 TO 715 768 773 776 TO 779 784 848 849 854 863 -
4047. 867 868 870 890 893 895 TO 900 953 958 961 TO 964 969 1033 1034 1039 1048 -
4048. 1052 1053 1055 1075 1078 1080 TO 1085 1138 1143 1146 TO 1149 1154 1218 1219 -
4049. 1224 1233 1237 1238 1240 1260 1263 1265 TO 1270 1323 1328 1331 TO 1334 1339 -
4050. 1403 1404 1409 1418 1422 1423 1425 1445 1448 1450 TO 1455 1508 1513 1516 -
4051. 1517 TO 1519 1524 1588 1589 1594 1603 1607 1608 1610 1630 1633 1635 TO 1640 -
4052. 1693 1698 1781 TO 1704 1709 1773 1774 1779 1788 1792 1793 1795 1815 1818 -
4053. 1820 TO 1825 1870 1883 1886 TO 1889 1894 1992 1993 1998 TO 2002 2006 2032 -
4054. 2045 2049 2050 2055 2057 6441 TO 6443 6470 6472 6474 6480 TO 6482 -
4055. 6489 TO 6491 6498 TO 6500 6507 TO 6509 6516 TO 6518 6525 TO 6527 -
4056. 6534 TO 6536 6543 TO 6545 6560 6643 6956 6959 6964 6965 6968 6972 6973 6978 -
4057. 6981 6982 UNI GX 13
4058. 131 132 137 146 151 152 154 176 179 181 TO 186 242 247 250 TO 253 258 287 -
4059. 288 293 302 307 308 310 332 335 337 TO 342 398 403 406 TO 409 414 478 479 -
4060. 484 493 497 498 500 520 523 525 TO 530 583 588 591 TO 594 599 663 664 669 -
4061. 678 682 683 685 705 708 710 TO 715 768 773 776 TO 779 784 848 849 854 863 -
4062. 867 868 870 890 893 895 TO 900 953 958 961 TO 964 969 1033 1034 1039 1048 -
4063. 1052 1053 1055 1075 1078 1080 TO 1085 1138 1143 1146 TO 1149 1154 1218 1219 -
4064. 1224 1233 1237 1238 1240 1260 1263 1265 TO 1270 1323 1328 1331 TO 1334 1339 -
4065. 1403 1404 1409 1418 1422 1423 1425 1445 1448 1450 TO 1455 1508 1513 1516 -
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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
THOUSAND LIGHTS, CHENNAI - 600 119.
Mobile: 9841259154

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4066. 1517 TO 1519 1524 1588 1589 1594 1603 1607 1608 1610 1630 1633 1635 TO 1640 -
4067. 1693 1698 1701 TO 1704 1709 1773 1774 1779 1788 1792 1793 1795 1815 1818 -
4068. 1820 TO 1825 1878 1883 1886 TO 1889 1894 1992 1993 1998 TO 2002 2006 2032 -
4069. 2045 2049 2050 2055 2057 6441 TO 6443 6470 6472 6474 6480 TO 6482 -
4070. 6489 TO 6491 6498 TO 6500 6507 TO 6509 6516 TO 6518 6525 TO 6527 -
4071. 6534 TO 6536 6543 TO 6545 6560 6643 6956 6959 6964 6965 6968 6972 6973 6978 -
4072. 6981 6982 UNI GY 13
4073. 131 132 137 146 151 152 154 176 179 181 TO 186 242 247 250 TO 253 258 287 -
4074. 288 293 302 307 308 310 332 335 337 TO 342 398 403 406 TO 409 414 478 479 -
4075. 484 493 497 498 500 520 523 525 TO 530 583 588 591 TO 594 599 663 664 669 -
4076. 678 682 683 685 705 708 710 TO 715 768 773 776 TO 779 784 848 849 854 863 -
4077. 867 868 870 890 893 895 TO 900 953 958 961 TO 964 969 1033 1034 1039 1048 -
4078. 1052 1053 1055 1075 1078 1080 TO 1085 1138 1143 1146 TO 1149 1154 1218 1219 -
4079. 1224 1233 1237 1238 1240 1260 1263 1265 TO 1270 1323 1328 1331 TO 1334 1339 -
4080. 1403 1404 1409 1418 1422 1423 1425 1445 1448 1450 TO 1455 1508 1513 1516 -
4081. 1517 TO 1519 1524 1588 1589 1594 1603 1607 1608 1610 1630 1633 1635 TO 1640 -
4082. 1693 1698 1701 TO 1704 1709 1773 1774 1779 1788 1792 1793 1795 1815 1818 -
4083. 1820 TO 1825 1878 1883 1886 TO 1889 1894 1992 1993 1998 TO 2002 2006 2032 -
4084. 2045 2049 2050 2055 2057 6441 TO 6443 6470 6472 6474 6480 TO 6482 -
4085. 6489 TO 6491 6498 TO 6500 6507 TO 6509 6516 TO 6518 6525 TO 6527 -
4086. 6534 TO 6536 6543 TO 6545 6560 6643 6956 6959 6964 6965 6968 6972 6973 6978 -
4087. 6981 6982 UNI GZ 13
4088. FLOOR LOAD
4089. YRANGE 31.25 31.75 FLOAD 3 GX
4090. YRANGE 31.25 31.75 FLOAD 3 GY
4091. YRANGE 31.25 31.75 FLOAD 3 GZ
4092. FLOOR LOAD
4093. _TYPICALTOILET FLOAD 7.1 GX
4094. _TYPICALTOILET FLOAD 7.1 GY
4095. _TYPICALTOILET FLOAD 7.1 GZ
4096. FLOOR LOAD
4097. _SRTOILET FLOAD 0.8 GX
4098. _SRTOILET FLOAD 0.8 GY
4099. _SRTOILET FLOAD 0.8 GZ
4100. FLOOR LOAD
4101. _LBS FLOAD 1 GX
4102. _LBS FLOAD 1 GY
4103. _LBS FLOAD 1 GZ
4104. FLOOR LOAD
4105. YRANGE 36 36.02 FLOAD 20 GX
4106. YRANGE 36 36.02 FLOAD 20 GY
4107. YRANGE 36 36.02 FLOAD 20 GZ
4108. SELFWEIGHT X 1
4109. SELFWEIGHT Y 1
4110. SELFWEIGHT Z 1
4111. FLOOR LOAD
4112. YRANGE 4.25 28.6 FLOAD 0.5 GX
4113. YRANGE 4.25 28.6 FLOAD 0.5 GY
4114. YRANGE 4.25 28.6 FLOAD 0.5 GZ
4115. FLOOR LOAD
4116. _LBS FLOAD 0.25 GX
4117. _LBS FLOAD 0.25 GY
4118. _LBS FLOAD 0.25 GZ
4119. END DEFINE REFERENCE LOADS
```



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

*** 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.

```
4120. FLOOR DIAPHRAGM
4121. DIA 1 TYPE RIG HEI 4.41
4122. DIA 2 TYPE RIG HEI 7.42
4123. DIA 3 TYPE RIG HEI 10.43
4124. DIA 4 TYPE RIG HEI 13.44
4125. DIA 5 TYPE RIG HEI 16.45
4126. DIA 6 TYPE RIG HEI 19.46
4127. DIA 7 TYPE RIG HEI 22.47
4128. DIA 8 TYPE RIG HEI 25.48
4129. DIA 9 TYPE RIG HEI 28.49
4130. DIA 10 TYPE RIG HEI 31.5
4131. DIA 11 TYPE RIG HEI 34.51
4132. CHECK SOFT STORY 1893 2016
```

FLOOR DIAPHRAGM

FLOOR DIAPHRAGM UNIT - KN METE

NO.	TYPE	FL. LEVEL	FL. WT	CENTRE OF MASS X	Z	CONTROL JOINT NO.
1	RIGID	4.410	4717.47	7.986	11.805	4699
2	RIGID	7.420	4940.24	7.943	11.818	4700
3	RIGID	10.430	4942.20	7.944	11.822	4701
4	RIGID	13.440	4942.18	7.944	11.822	4702
5	RIGID	16.450	4942.19	7.944	11.822	4703
6	RIGID	19.460	4942.23	7.944	11.822	4704
7	RIGID	22.470	4942.20	7.944	11.822	4705
8	RIGID	25.480	4942.20	7.944	11.822	4706
9	RIGID	28.490	4993.49	7.992	11.764	4707
10	RIGID	31.500	4290.90	7.987	11.671	4708
11	RIGID	34.510	2386.12	8.856	10.418	4709

```
4134. DEFINE IS1893 2016 LOAD
4135. ZONE 0.16 RF 4 I 1 SS 2 ST 1 DM 0.05 PX 0.67 PZ 0.55
4136. DEFINE WIND LOAD
4137. TYPE 1 WIND 1
4138. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
4139. IS875-2015:PARAMS 0 0 0 0.000 0.000 5.000 0 50.000 0 1.000 0 0 1.000 2 1.000 -
4140. 1.000 0 0.000 0.000 0.000 0 0 0 1.000 0 0 0.200 1.000 0 1.000 1.000 1.000
4141. !> END GENERATED DATA BLOCK
```

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```
4142. INT 0.906 0.906 0.906 1.029 1.115 1.171 1.229 1.264 1.271 HEIG 0 5 10 15 20 -
4143. 25 30 35 36.01
4144. LOAD 5 LOADTYPE NONE  TITLE EQ+X
4145. 1893 LOAD X 1
4146. LOAD 6 LOADTYPE NONE  TITLE EQ-X
4147. 1893 LOAD X -1.
4148. LOAD 7 LOADTYPE NONE  TITLE EQ+Z
4149. 1893 LOAD Z 1
4150. LOAD 8 LOADTYPE NONE  TITLE EQ-Z
4151. 1893 LOAD Z -1.
4152. LOAD 1 LOADTYPE DEAD  TITLE DL
4153. MEMBER LOAD
4154. 112 114 119 TO 121 128 TO 130 134 136 139 TO 141 143 TO 145 147 TO 149 158 -
4155. 161 TO 165 200 TO 202 204 209 211 214 216 217 219 221 223 225 227 228 232 -
4156. 233 235 TO 237 241 243 271 276 TO 278 284 TO 286 290 292 295 TO 297 -
4157. 299 TO 301 303 TO 305 314 317 TO 321 356 TO 358 360 365 367 370 372 373 375 -
4158. 377 379 381 383 384 388 389 391 TO 393 397 399 462 467 TO 469 475 TO 477 -
4159. 481 483 486 TO 488 490 TO 492 494 TO 496 504 507 TO 511 544 TO 546 548 550 -
4160. 552 555 557 558 560 562 564 566 568 569 573 574 576 TO 578 582 584 647 652 -
4161. 653 TO 654 660 TO 662 666 668 671 TO 673 675 TO 677 679 TO 681 689 -
4162. 692 TO 696 729 TO 731 733 735 737 740 742 743 745 747 749 751 753 754 758 -
4163. 759 761 TO 763 767 769 832 837 TO 839 845 TO 847 851 853 856 TO 858 -
4164. 860 TO 862 864 TO 866 874 877 TO 881 914 TO 916 918 920 922 925 927 928 930 -
4165. 932 934 936 938 939 943 944 946 TO 948 952 954 1017 1022 TO 1024 -
4166. 1030 TO 1032 1036 1038 1041 TO 1043 1045 TO 1047 1049 TO 1051 1059 -
4167. 1062 TO 1066 1099 TO 1101 1103 1105 1107 1110 1112 1113 1115 1117 1119 1121 -
4168. 1123 1124 1128 1129 1131 TO 1133 1137 1139 1202 1207 TO 1209 1215 TO 1217 -
4169. 1221 1223 1226 TO 1228 1230 6572 6574 UNI GY -5
4170. 6984 UNI GY -5
4171. 6575 6577 6578 6580 6582 TO 6584 6586 6588 TO 6590 6592 6594 TO 6596 6598 -
4172. 6600 TO 6602 6606 6607 6612 6613 6618 6619 6986 UNI GY -5
4173. 6373 UNI GY -5
4174. 2058 2059 UNI GY -5
4175. 1231 1232 1234 TO 1236 1244 1247 TO 1251 1284 TO 1286 1288 1290 1292 1295 -
4176. 1297 1298 1300 1302 1304 1306 1308 1309 1313 1314 1316 TO 1318 1322 1324 -
4177. 1387 1392 TO 1394 1400 TO 1402 1406 1408 1411 TO 1413 1415 TO 1417 -
4178. 1419 TO 1421 1429 1432 TO 1436 1469 TO 1471 1473 1475 1477 1480 1482 1483 -
4179. 1485 1487 1489 1491 1493 1494 1498 1499 1501 TO 1503 1507 1509 1572 1577 -
4180. 1578 TO 1579 1585 TO 1587 1591 1593 1596 TO 1598 1600 TO 1602 1604 TO 1606 -
4181. 1614 1617 TO 1621 1654 TO 1656 1658 1660 1662 1665 1667 1668 1670 1672 1674 -
4182. 1676 1678 1679 1683 1684 1686 TO 1688 1692 1694 6604 6608 6610 6614 -
4183. 6616 UNI GY -5
4184. 106 107 109 111 113 115 118 123 TO 127 138 142 155 166 TO 170 174 175 187 -
4185. 188 TO 189 191 192 194 TO 196 198 199 203 213 215 218 222 224 226 229 230 -
```

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STAAD SPACE -- PAGE NO. 77

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4186. 234 238 TO 240 244 246 254 255 263 264 266 268 270 272 274 275 279 TO 283 -
4187. 294 298 311 322 TO 326 330 331 343 TO 345 347 348 350 TO 352 354 355 359 -
4188. 369 371 374 378 380 382 385 386 390 394 TO 396 400 402 410 411 454 455 457 -
4189. 459 461 463 465 466 470 TO 474 485 489 501 512 TO 516 518 519 531 TO 533 -
4190. 535 536 538 TO 540 542 543 547 554 556 559 563 565 567 570 571 575 -
4191. 579 TO 581 585 587 595 596 639 640 642 644 646 648 650 651 655 TO 659 670 -
4192. 674 686 697 TO 701 703 704 716 TO 718 720 721 723 TO 725 727 728 732 739 -
4193. 741 744 748 750 752 755 756 760 764 TO 766 770 772 780 781 824 825 827 829 -
4194. 831 833 835 836 840 TO 844 855 859 871 882 TO 886 888 889 901 TO 903 905 -
4195. 906 908 TO 910 912 913 917 924 926 929 933 935 937 940 941 945 949 TO 951 -
4196. 955 957 965 966 1009 1010 1012 1014 1016 1018 1020 1021 1025 TO 1029 1040 -
4197. 1044 1056 1067 TO 1071 1073 1074 1086 TO 1088 1090 1091 1093 TO 1095 1097 -
4198. 1098 1102 1109 1111 1114 1118 1120 1122 1125 1126 1130 1134 TO 1135 -
4199. 1136 UNI GY -6
4200. 2054 2056 2061 2063 UNI GY -6
4201. 1140 1142 1150 1151 1194 1195 1197 1199 1201 1203 1205 1206 1210 TO 1214 -
4202. 1225 1229 1241 1252 TO 1256 1258 1259 1271 TO 1273 1275 1276 1278 TO 1280 -
4203. 1282 1283 1287 1294 1296 1299 1303 1305 1307 1310 1311 1315 1319 TO 1321 -
4204. 1325 1327 1335 1336 1379 1380 1382 1384 1386 1388 1390 1391 1395 TO 1399 -
4205. 1410 1414 1426 1437 TO 1441 1443 1444 1456 TO 1458 1460 1461 1463 TO 1465 -
4206. 1467 1468 1472 1479 1481 1484 1488 1490 1492 1495 1496 1500 1504 TO 1506 -
4207. 1510 1512 1520 1521 1564 1565 1567 1569 1571 1573 1575 1576 1580 TO 1584 -
4208. 1595 1599 1611 1622 TO 1626 1628 1629 1641 TO 1643 1645 1646 1648 TO 1650 -
4209. 1652 1653 1657 1664 1666 1669 1673 1675 1677 1680 1681 1685 1689 TO 1691 -
4210. 1695 1697 1705 1706 1719 1755 1757 1765 1766 1771 1890 1891 1986 TO 1988 -
4211. 1994 1995 1997 2042 TO 2044 2053 6634 6635 UNI GY -6
4212. 108 110 116 157 173 190 210 212 231 245 265 267 273 313 329 346 366 368 387 -
4213. 401 456 458 464 503 517 534 551 553 572 586 641 643 649 688 702 719 736 738 -
4214. 757 771 826 828 834 873 887 904 921 923 942 956 1011 1013 1019 1058 1072 -
4215. 1089 1106 1108 1117 1141 1196 1198 1204 1243 1257 1274 1291 1293 1312 1326 -
4216. 1381 1383 1389 1428 1442 1459 1476 1478 1497 1511 1566 1568 1574 1613 1627 -
4217. 1644 1661 1663 1682 1696 1749 TO 1752 1754 1761 1768 1769 1780 1784 1796 -
4218. 1807 1809 TO 1811 1813 1827 1828 1830 1831 1833 TO 1838 1842 1849 1854 1858 -
4219. 1860 1862 1867 1874 TO 1876 1880 UNI GY -3
4220. FLOOR LOAD
4221. YRANGE 4.35 36.2 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 S.32.4.2 Note d and/or "S.32.4.3 Note f.

4222. YRANGE 4.35 28.7 FLOAD -1.2 GY
4223. **WATER TANK LOAD**
4224. _WT FLOAD -15 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.

4225. _FWT FLOAD -15 GY
4226. **WATER TANK RC WALL LOAD**
```

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```
4227. MEMBER LOAD
4228. 1913 1914 1917 1922 1927 1937 1944 UNI GY -15.5
4229. 1918 1929 1930 1932 TO 1934 UNI GY -17.825
4230. 1958 TO 1961 1963 1964 1967 UNI GY -11.625
4231. 1958 TO 1961 1963 UNI GY -6.84
4232. 1964 1967 UNI GY -8.7
4233. 1913 1914 1917 1922 UNI GY -19.08
4234. 1918 UNI GY -20.45
4235. 1929 1932 1933 UNI GY -30.85
4236. **WATER TANK LOAD**
4237. FLOOR LOAD
4238. _WT3 FLOAD -15 GY
4239. MEMBER LOAD
4240. 131 132 137 146 151 152 154 176 179 181 TO 186 242 247 250 TO 253 258 287 -
4241. 288 293 302 307 308 310 332 335 337 TO 342 398 403 406 TO 409 414 478 479 -
4242. 484 493 497 498 500 520 523 525 TO 530 583 588 591 TO 594 599 663 664 669 -
4243. 678 682 683 685 705 708 710 TO 715 768 773 776 TO 779 784 848 849 854 863 -
4244. 867 868 870 890 893 895 TO 900 953 958 961 TO 964 969 1033 1034 1039 1048 -
4245. 1052 1053 1055 1075 1078 1080 TO 1085 1138 1143 1146 TO 1149 1154 1218 1219 -
4246. 1224 1233 1237 1238 1240 1260 1263 1265 TO 1270 1323 1328 1331 TO 1334 1339 -
4247. 1403 1404 1409 1418 1422 1423 1425 1445 1448 1450 TO 1455 1508 1513 1516 -
4248. 1517 TO 1519 1524 1588 1589 1594 1603 1607 1608 1610 1630 1633 1635 TO 1640 -
4249. 1693 1698 1701 TO 1704 1709 1773 1774 1779 1788 1792 1793 1795 1815 1818 -
4250. 1820 TO 1825 1878 1883 1886 TO 1889 1894 1992 1993 1998 TO 2002 2006 2032 -
4251. 2045 2049 2050 2055 2057 6441 TO 6443 6470 6472 6474 6480 TO 6482 -
4252. 6489 TO 6491 6498 TO 6500 6507 TO 6509 6516 TO 6518 6525 TO 6527 -
4253. 6534 TO 6536 6543 TO 6545 6560 6643 6956 6959 6964 6965 6968 6972 6973 6978 -
4254. 6981 6982 UNI GY -13
4255. FLOOR LOAD
4256. YRANGE 31.25 31.75 FLOAD -3 GY
4257. **FILLING LOAD**
4258. FLOOR LOAD
4259. _TYPICALTOILET FLOAD -7.1 GY
4260. _SRTOILET FLOAD -0.8 GY
4261. _LBS FLOAD -1 GY
4262. **LIFT MACHINE ROOM LOAD**
4263. YRANGE 36 36.02 FLOAD -20 GY
4264. SELFWEIGHT Y -1
4265. LOAD 2 LOADTYPE LIVE  TITLE LL
4266. FLOOR LOAD
4267. YRANGE 4.25 28.6 FLOAD -2 GY
4268. YRANGE 31.25 31.75 FLOAD -1.5 GY
4269. _LBS FLOAD -1 GY
4270. LOAD 9 LOADTYPE SEISMIC-H  TITLE RS+X
4271. SPECTRUM CQC IS1893 2016 X 0.016 SCALE 3.617 DAMP 0.05 MIS 0
4272. SOIL TYPE 2
4273. LOAD 10 LOADTYPE SEISMIC-H  TITLE RS-X
```

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4274. SPECTRUM CQC IS1893 2016 X -0.016 SCALE 3.617 DAMP 0.05 MIS 0
4275. SOIL TYPE 2
4276. LOAD 11 LOADTYPE SEISMIC-H  TITLE RS+Z
4277. SPECTRUM CQC IS1893 2016 Z 0.016 SCALE 4.173 DAMP 0.05 MIS 0
4278. SOIL TYPE 2
4279. LOAD 12 LOADTYPE SEISMIC-H  TITLE RS-Z
4280. SPECTRUM CQC IS1893 2016 Z -0.016 SCALE 4.173 DAMP 0.05 MIS 0
4281. SOIL TYPE 2
4282. CHECK STORY DRIFT
4283. LOAD 13 LOADTYPE WIND  TITLE WL(+X)
4284. WIND LOAD X 1 TYPE 1 XR 0 1 YR 4.4 37
4285. LOAD 14 LOADTYPE WIND  TITLE WL(-X)
4286. WIND LOAD -X -1 TYPE 1 XR 15 17 YR 4.4 37
4287. LOAD 15 LOADTYPE WIND  TITLE WL(+Z)
4288. WIND LOAD Z 1 TYPE 1 YR 4.4 37 ZR 0 1
4289. LOAD 16 LOADTYPE WIND  TITLE WL(-Z)
4290. WIND LOAD -Z -1 TYPE 1 YR 4.4 37 ZR 22 23.5
4291. **LIMIT STATE OF SERVICABILITY**
4292. LOAD COMB 3 DL+LL
4293. 1 1.0 2 1.0
4294. LOAD COMB 17 DL+RS(+X)
4295. 1 1.0 9 1.0
4296. LOAD COMB 18 DL+RS(-X)
4297. 1 1.0 10 1.0
4298. LOAD COMB 19 DL+RS(+Z)
4299. 1 1.0 11 1.0
4300. LOAD COMB 20 DL+RS(-Z)
4301. 1 1.0 12 1.0
4302. LOAD COMB 21 DL+WL(+X)
4303. 1 1.0 13 1.0
4304. LOAD COMB 22 DL+WL(-X)
4305. 1 1.0 14 1.0
4306. LOAD COMB 23 DL+WL(+Z)
4307. 1 1.0 15 1.0
4308. LOAD COMB 24 DL+WL(-Z)
4309. 1 1.0 16 1.0
4310. LOAD COMB 25 1.0DL+0.8LL+0.8RS(+X)
4311. 1 1.0 9 0.8 2 0.8
4312. LOAD COMB 26 1.0DL+0.8LL+0.8RS(-X)
4313. 1 1.0 10 0.8 2 0.8
4314. LOAD COMB 27 1.0DL+0.8LL+0.8RS(+Z)
4315. 1 1.0 11 0.8 2 0.8
4316. LOAD COMB 28 1.0DL+0.8LL+0.8RS(-Z)
4317. 1 1.0 12 0.8 2 0.8
```

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```
4318. LOAD COMB 29 1.0DL+0.8LL+0.8WL(+X)
4319. 1 1.0 13 0.8 2 0.8
4320. LOAD COMB 30 1.0DL+0.8LL+0.8WL(-X)
4321. 1 1.0 14 0.8 2 0.8
4322. LOAD COMB 31 1.0DL+0.8LL+0.8WL(+Z)
4323. 1 1.0 15 0.8 2 0.8
4324. LOAD COMB 32 1.0DL+0.8LL+0.8WL(-Z)
4325. 1 1.0 16 0.8 2 0.8
4326. **LIMIT STATE OF COLLAPSE**
4327. LOAD COMB 4 1.5DL+1.5LL
4328. 1 1.5 2 1.5
4329. LOAD COMB 33 1.2DL+1.2LL+1.2RS(+X)
4330. 1 1.2 2 1.2 9 1.2
4331. LOAD COMB 34 1.2DL+1.2LL+1.2RS(-X)
4332. 1 1.2 2 1.2 10 1.2
4333. LOAD COMB 35 1.2DL+1.2LL+1.2RS(+Z)
4334. 1 1.2 2 1.2 11 1.2
4335. LOAD COMB 36 1.2DL+1.2LL+1.2RS(-Z)
4336. 1 1.2 2 1.2 12 1.2
4337. LOAD COMB 37 1.2DL+1.2LL+1.2WL(+X)
4338. 1 1.2 2 1.2 13 1.2
4339. LOAD COMB 38 1.2DL+1.2LL+1.2WL(-X)
4340. 1 1.2 2 1.2 14 1.2
4341. LOAD COMB 39 1.2DL+1.2LL+1.2WL(+Z)
4342. 1 1.2 2 1.2 15 1.2
4343. LOAD COMB 40 1.2DL+1.2LL+1.2WL(-Z)
4344. 1 1.2 2 1.2 16 1.2
4345. LOAD COMB 41 0.9DL+1.5RS(+X)
4346. 1 0.9 9 1.5
4347. LOAD COMB 42 0.9DL+1.5RS(-X)
4348. 1 0.9 10 1.5
4349. LOAD COMB 43 0.9DL+1.5RS(+Z)
4350. 1 0.9 11 1.5
4351. LOAD COMB 44 0.9DL+1.5RS(-Z)
4352. 1 0.9 12 1.5
4353. LOAD COMB 45 0.9DL+1.5WL(+X)
4354. 1 0.9 13 1.5
4355. LOAD COMB 46 0.9DL+1.5WL(-X)
4356. 1 0.9 14 1.5
4357. LOAD COMB 47 0.9DL+1.5WL(+Z)
4358. 1 0.9 15 1.5
4359. LOAD COMB 48 0.9DL+1.5WL(-Z)
4360. 1 0.9 16 1.5
4361. LOAD COMB 49 1.5DL+1.5RS(+X)
4362. 1 1.5 9 1.5
4363. LOAD COMB 50 1.5DL+1.5RS(-X)
4364. 1 1.5 10 1.5
4365. LOAD COMB 51 1.5DL+1.5RS(+Z)
4366. 1 1.5 11 1.5
4367. LOAD COMB 52 1.5DL+1.5RS(-Z)
4368. 1 1.5 12 1.5
4369. LOAD COMB 53 1.5DL+1.5WL(+X)
4370. 1 1.5 13 1.5
4371. LOAD COMB 54 1.5DL+1.5WL(-X)
4372. 1 1.5 14 1.5
4373. LOAD COMB 55 1.5DL+1.5WL(+Z)
```

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4374. 1 1.5 15 1.5
4375. LOAD COMB 56 1.SDL+1.SWL(-Z)
4376. 1 1.5 16 1.5
4377. PERFORM ANALYSIS
```

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

NUMBER OF JOINTS	4661	NUMBER OF MEMBERS	2462
NUMBER OF PLATES	3280	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	61

Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL PRIMARY LOAD CASES = 14, TOTAL DEGREES OF FREEDOM = 23148
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.

SOFT STORY CHECK

VERTICAL STRUCTURAL IRREGULARITIES : SOFT STORY CHECK - IS 1893:2016

STORY	FL. LEVEL IN METE	S T A T U S	
		X	Z

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1	4.41	OK	OK
2	7.42	OK	OK
3	10.43	OK	OK
4	13.44	OK	OK
5	16.45	OK	OK
6	19.46	OK	OK
7	22.47	OK	OK
8	25.48	OK	OK
9	28.49	OK	OK
10	31.50	OK	OK
11	34.51	OK	OK

NOTE : NO SOFT STOREY IS DETECTED.

***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 =    0.67000 SEC       *
* SA/G PER 1893=    2.030, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0406 X    55688.01=    2260.77 KN   *
* VB Act Based on Clause 7.2.1 =     2260.77 KN         *
* VB Min based on Clause 7.2.2 =      612.57 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 =    0.67000 SEC       *
* SA/G PER 1893=    2.030, LOAD FACTOR=-1.000           *
* VB PER 1893=    0.0406 X    55688.01=   -2260.77 KN   *
* VB Act Based on Clause 7.2.1 =    -2260.77 KN         *
* VB Min based on Clause 7.2.2 =     -612.57 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 =    0.55000 SEC       *
* SA/G PER 1893=    2.500, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0500 X    55688.01=    2784.40 KN   *
* VB Act Based on Clause 7.2.1 =     2784.40 KN         *
* VB Min based on Clause 7.2.2 =      612.57 KN         *
*                                                       *
*********************************************************
```

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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

STAAD SPACE -- PAGE NO. 83

BASE SHEAR AND TIME PERIOD IN Z

```
 ********************************************************
 * UNITS - KN    METE                                   *
 * TIME PERIOD FOR Z 1893 LOADING =    0.55000 SEC      *
 * SA/G PER 1893=    2.500, LOAD FACTOR=-1.000          *
 * VB PER 1893=    0.0500 X    55688.01=   -2784.40 KN  *
 * VB Act Based on Clause 7.2.1 =    -2784.40 KN        *
 * VB Min based on Clause 7.2.2 =     -612.57 KN        *
 *                                                      *
 ********************************************************

EIGEN METHOD   : SUBSPACE
-------------------------
NUMBER OF MODES REQUESTED              =    50
NUMBER OF EXISTING MASSES IN THE MODEL = 10832
NUMBER OF MODES THAT WILL BE USED      =    50

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

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CALCULATED FREQUENCIES FOR LOAD CASE 9

MODE	FREQUENCY(CYCLES/SEC)	PERIOD(SEC)
1	0.596	1.67846
2	0.656	1.52440
3	0.713	1.40163
4	1.908	0.52402
5	2.321	0.43082
6	2.410	0.41490
7	3.489	0.28665
8	4.722	0.21176
9	4.896	0.20423
10	5.326	0.18775
11	6.475	0.15445
12	6.606	0.15139
13	6.694	0.14938
14	7.056	0.14172
15	7.167	0.13953
16	7.601	0.13156
17	7.682	0.13018
18	7.709	0.12971
19	8.168	0.12243
20	8.335	0.11997
21	8.770	0.11403
22	8.869	0.11275
23	9.192	0.10880
24	9.369	0.10673
25	9.494	0.10533
26	9.687	0.10323
27	9.737	0.10270
28	9.813	0.10191
29	9.838	0.10165
30	9.942	0.10059
31	10.035	0.09966
32	10.071	0.09930
33	10.084	0.09916
34	10.144	0.09858
35	10.150	0.09852
36	10.152	0.09850
37	10.196	0.09808
38	10.216	0.09788
39	10.316	0.09694
40	10.393	0.09622
41	10.413	0.09604
42	10.473	0.09548
43	10.483	0.09540
44	10.598	0.09436
45	10.689	0.09355
46	10.728	0.09322
47	10.741	0.09310
48	10.786	0.09271
49	10.814	0.09247
50	10.847	0.09219

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COMPOSITE DAMPING SUMMARY

MODE	STRAIN ENERGY	DAMP*ENERGY	COMPOSITE DAMPING
1	3.947440E+01	1.968961E+00	0.0499
2	5.742142E+01	2.861152E+00	0.0498
3	9.634562E+01	4.793983E+00	0.0498
4	3.276024E+02	1.634589E+01	0.0499
5	6.984847E+02	3.484763E+01	0.0499
6	8.663151E+02	4.314996E+01	0.0498
7	8.058260E+02	4.022551E+01	0.0499
8	2.323255E+03	1.159417E+02	0.0499
9	2.372236E+03	1.183996E+02	0.0499
10	1.590331E+03	7.942743E+01	0.0499
11	1.623865E+03	8.106034E+01	0.0499
12	1.434109E+03	7.159544E+01	0.0499
13	1.129556E+03	5.647881E+01	0.0500
14	1.216281E+03	6.078150E+01	0.0500
15	4.732261E+03	2.363923E+02	0.0500
16	1.829320E+03	9.135222E+01	0.0499
17	5.213465E+03	2.603810E+02	0.0499
18	1.734228E+03	8.666818E+01	0.0500
19	5.357373E+03	2.675787E+02	0.0499
20	2.572192E+03	1.284143E+02	0.0499
21	2.692490E+03	1.343389E+02	0.0499
22	2.182063E+03	1.090521E+02	0.0500
23	4.497738E+03	2.248147E+02	0.0500
24	5.460150E+03	2.731246E+02	0.0499
25	7.027459E+03	3.511489E+02	0.0500
26	7.554519E+03	3.773782E+02	0.0500
27	6.866916E+02	3.433453E+01	0.0500
28	4.358771E+02	2.179383E+01	0.0500
29	4.107640E+02	2.053816E+01	0.0500
30	4.825312E+02	2.412652E+01	0.0500
31	5.237419E+02	2.618704E+01	0.0500
32	5.689860E+03	2.842873E+02	0.0500
33	4.594536E+02	2.297267E+01	0.0500
34	5.715795E+02	2.857867E+01	0.0500
35	4.277831E+02	2.138861E+01	0.0500
36	4.942185E+02	2.471089E+01	0.0500
37	5.521814E+03	2.759266E+02	0.0500
38	5.289426E+02	2.644687E+01	0.0500
39	5.912741E+02	2.956367E+01	0.0500
40	4.334925E+02	2.167457E+01	0.0500
41	4.274628E+03	2.135690E+02	0.0500
42	3.087461E+02	1.543727E+01	0.0500
43	4.909106E+02	2.454551E+01	0.0500
44	1.555000E+02	7.774852E+00	0.0500
45	8.873329E+02	4.425533E+01	0.0499
46	7.515525E+03	3.753010E+02	0.0499
47	7.479137E+02	3.729952E+01	0.0499
48	5.438170E+02	2.710948E+01	0.0499

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Mobile: 9841259154

STAAD SPACE -- PAGE NO. 86

MODE	STRAIN ENERGY	DAMP*ENERGY	COMPOSITE DAMPING
49	1.124646E+03	5.613053E+01	0.0499
50	5.940187E+02	2.962088E+01	0.0499

1893 RESPONSE SPECTRUM LOAD 9

RESPONSE LOAD CASE 9

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN X	Y	Z	GENERALIZED WEIGHT
1	3.878751E+03	4.981096E-02	3.308653E+03	9.675647E+03
2	3.296139E+04	4.846837E-02	1.726551E+03	1.160952E+04
3	3.543773E+03	9.442540E-02	3.627455E+04	1.646803E+04
4	1.918168E+02	2.343864E-01	4.537594E+02	7.826890E+03
5	6.105164E+03	7.640031E-02	9.510667E+02	1.127969E+04
6	1.193206E+03	2.021957E-01	5.649944E+03	1.297471E+04
7	3.935611E+01	1.910886E+00	2.428918E+02	5.760704E+03
8	4.328966E+01	7.856227E-01	2.179257E+03	9.063934E+03
9	2.896792E+03	2.946702E-01	5.901533E+01	8.608658E+03
10	3.235781E+01	1.424374E+01	3.765651E+02	4.877177E+03
11	2.700236E+00	2.135406E+04	5.307295E-01	3.368597E+03
12	5.753414E-01	7.626241E+02	3.820702E+00	2.859520E+03
13	4.503201E+00	8.714364E+03	3.624659E+00	2.193109E+03
14	4.479771E+00	4.967124E+03	2.462337E-01	2.125392E+03
15	1.454953E+00	2.747243E+02	1.762012E+02	8.016359E+03
16	1.120678E+01	1.036908E+02	2.780101E+00	2.754635E+03
17	2.230651E-02	4.079688E+00	9.597315E+02	7.686852E+03
18	1.651248E+01	7.499507E+00	1.468231E+02	2.538687E+03
19	1.449938E+03	1.089602E+00	2.604404E+00	6.986839E+03
20	5.416223E+00	2.168757E+03	2.719863E-01	3.221205E+03
21	9.000429E+00	6.415500E+01	5.437604E+00	3.846069E+03
22	2.442253E+00	4.582840E+02	9.054394E-02	2.413581E+03
23	1.233364E+00	2.644971E+02	2.484056E-02	4.631884E+03
24	6.994562E-02	1.328873E+03	1.824439E+00	5.419947E+03
25	1.179372E-01	5.876724E+02	7.566739E+00	6.783303E+03
26	3.112927E+00	1.353028E+00	4.412297E+00	7.084126E+03
27	1.068536E-03	5.805623E+00	3.326147E-02	6.301999E+02
28	4.882356E-05	2.323649E+01	3.442170E-02	3.938317E+01
29	1.409179E-02	1.609392E+02	3.222120E-02	3.692593E+01
30	3.216815E-02	2.201225E+01	5.382616E-01	4.247618E+02
31	6.818298E-06	6.354953E+00	1.224607E-01	4.525434E+02
32	4.691541E-01	1.001219E+02	3.607352E-01	4.881186E+03
33	7.694828E-04	1.653337E+02	1.845337E-03	3.930855E+02
34	3.546843E-02	2.929198E-01	4.540545E+00	4.833272E+02
35	2.457735E-02	2.232302E+01	9.609302E+00	3.612925E+02
36	1.869194E-03	4.976428E+00	1.095363E-01	4.172087E+02
37	5.686349E-02	2.608395E+01	1.033129E+00	4.621541E+03
38	3.226586E-03	4.492762E-01	4.525448E-03	4.409336E+02
39	1.485270E-02	1.091805E+00	2.975679E-02	4.833877E+02

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3-B, RAMANIYAM GAURAVV - 2
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STAAD SPACE -- PAGE NO. 87

40	5.061132E-04	4.301379E+00	2.040189E-02	3.491572E+02
41	3.583911E-02	3.395539E+02	3.127571E-05	3.430193E+03
42	5.822367E-02	1.091540E+01	8.426068E-01	2.449819E+02
43	2.828742E-01	1.757652E+00	2.067680E-01	3.886896E+02
44	4.171362E-02	1.185748E+02	2.830805E+00	1.284567E+02
45	6.550792E-03	1.838490E+00	2.742219E-04	6.756848E+02
46	1.859797E-03	2.162139E+01	5.934414E+02	5.681959E+03
47	1.026856E-02	2.438970E+00	2.983483E-01	5.640255E+02
48	6.613280E-02	2.050433E+01	2.047814E+01	4.067123E+02
49	1.563199E-01	7.679431E+01	2.605287E+01	8.367260E+02
50	2.686750E-01	1.370692E+02	3.048334E+00	4.392593E+02

CQC MODAL COMBINATION METHOD USED.
MISSING MASS METHOD USED.

DYNAMIC WEIGHT X Y Z	5.555949E+04	5.555949E+04	5.555949E+04	KN
MISSING WEIGHT X Y Z	-3.159222E+03	-1.321239E+04	-2.357573E+03	KN
MODAL WEIGHT X Y Z	5.240827E+04	4.234710E+04	5.320192E+04	KN

RESPONSE LOAD CASE 9

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	0.81027	0.0469	0.0000	0.0000
2	0.89216	0.0516	0.0000	0.0000
3	0.97030	0.0562	0.0000	0.0000
4	2.50000	0.1447	0.0000	0.0000
5	2.50000	0.1447	0.0000	0.0000
6	2.50000	0.1447	0.0000	0.0000
7	2.50000	0.1447	0.0000	0.0000
8	2.50000	0.1447	0.0000	0.0000
9	2.50000	0.1447	0.0000	0.0000
10	2.50000	0.1447	0.0000	0.0000
11	2.50000	0.1447	0.0000	0.0000
12	2.50000	0.1447	0.0000	0.0000
13	2.50000	0.1447	0.0000	0.0000
14	2.50000	0.1447	0.0000	0.0000
15	2.50000	0.1447	0.0000	0.0000
16	2.50000	0.1447	0.0000	0.0000
17	2.50000	0.1447	0.0000	0.0000
18	2.50000	0.1447	0.0000	0.0000
19	2.50000	0.1447	0.0000	0.0000
20	2.50000	0.1447	0.0000	0.0000
21	2.50000	0.1447	0.0000	0.0000
22	2.50000	0.1447	0.0000	0.0000
23	2.50000	0.1447	0.0000	0.0000
24	2.50000	0.1447	0.0000	0.0000
25	2.50000	0.1447	0.0000	0.0000

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26	2.50000	0.1447	0.0000	0.0000
27	2.50000	0.1447	0.0000	0.0000
28	2.50000	0.1447	0.0000	0.0000
29	2.50000	0.1447	0.0000	0.0000
30	2.50000	0.1447	0.0000	0.0000
31	2.49483	0.1444	0.0000	0.0000
32	2.48947	0.1441	0.0000	0.0000
33	2.48745	0.1440	0.0000	0.0000
34	2.47877	0.1435	0.0000	0.0000
35	2.47787	0.1434	0.0000	0.0000
36	2.47753	0.1434	0.0000	0.0000
37	2.47120	0.1430	0.0000	0.0000
38	2.46826	0.1428	0.0000	0.0000
39	2.45403	0.1420	0.0000	0.0000
40	2.44324	0.1414	0.0000	0.0000
41	2.44055	0.1412	0.0000	0.0000
42	2.43224	0.1408	0.0000	0.0000
43	2.43093	0.1407	0.0000	0.0000
44	2.41537	0.1398	0.0000	0.0000
45	2.40329	0.1391	0.0000	0.0000
46	2.39826	0.1388	0.0000	0.0000
47	2.39651	0.1387	0.0000	0.0000
48	2.39071	0.1384	0.0000	0.0000
49	2.38708	0.1381	0.0000	0.0000
50	2.38287	0.1379	0.0000	0.0000

PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
11	34.51	374.78	0.00	0.00
10	31.50	775.89	0.00	0.00
9	28.49	1067.78	0.00	0.00
8	25.48	1264.68	0.00	0.00
7	22.47	1410.85	0.00	0.00
6	19.46	1538.59	0.00	0.00
5	16.45	1679.90	0.00	0.00
4	13.44	1837.85	0.00	0.00
3	10.43	1998.17	0.00	0.00
2	7.42	2146.81	0.00	0.00
1	4.41	2237.13	0.00	0.00
BASE	0.00	2245.91	0.00	0.00

MODE	ACCELERATION-G	DAMPING
1	2.93074	0.05000
2	3.22693	0.05000
3	3.50957	0.05000
4	9.04250	0.05000

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MODE	ACCELERATION-G	DAMPING
5	9.04250	0.05000
6	9.04250	0.05000
7	9.04250	0.05000
8	9.04250	0.05000
9	9.04250	0.05000
10	9.04250	0.05000
11	9.04250	0.05000
12	9.04250	0.05000
13	9.04250	0.05000
14	9.04250	0.05000
15	9.04250	0.05000
16	9.04250	0.05000
17	9.04250	0.05000
18	9.04250	0.05000
19	9.04250	0.05000
20	9.04250	0.05000
21	9.04250	0.05000
22	9.04250	0.05000
23	9.04250	0.05000
24	9.04250	0.05000
25	9.04250	0.05000
26	9.04250	0.05000
27	9.04250	0.05000
28	9.04250	0.05000
29	9.04250	0.05000
30	9.04250	0.05000
31	9.02379	0.05000
32	9.00441	0.05000
33	8.99710	0.05000
34	8.96573	0.05000
35	8.96247	0.05000
36	8.96123	0.05000
37	8.93833	0.05000
38	8.92768	0.05000
39	8.87622	0.05000
40	8.83721	0.05000
41	8.82748	0.05000
42	8.79740	0.05000
43	8.79269	0.05000
44	8.73639	0.05000
45	8.69271	0.05000
46	8.67452	0.05000
47	8.66817	0.05000
48	8.64720	0.05000
49	8.63489	0.05000
50	8.61882	0.05000

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PEAK STORY SHEAR MIS

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN INCLUDING MISSING MASS CORRECTION		
		X	Y	Z
11	34.51	375.62	0.00	0.00
10	31.50	776.06	0.00	0.00
9	28.49	1067.94	0.00	0.00
8	25.48	1265.43	0.00	0.00
7	22.47	1410.96	0.00	0.00
6	19.46	1538.97	0.00	0.00
5	16.45	1680.85	0.00	0.00
4	13.44	1837.08	0.00	0.00
3	10.43	1999.36	0.00	0.00
2	7.42	2148.21	0.00	0.00
1	4.41	2239.08	0.00	0.00
BASE	0.00	2261.60	0.00	0.00
ZPA		5.26109		
ZPAFREQ		33.00000		

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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841259154

NODAL 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	1.678	181.88	-0.65	167.98	3987.23	736.14	-4438.59
2	1.524	1701.82	-2.06	389.49	9396.63	16835.40	-40795.13
3	1.402	198.99	-1.03	-636.66	-15094.78	7430.43	-4761.21
4	0.524	27.75	0.97	42.68	-83.72	9.92	-61.56
5	0.431	883.30	3.12	348.63	489.74	8052.39	-1373.16
6	0.415	172.63	2.25	-375.65	-163.41	4899.37	-131.07
7	0.287	5.69	-1.25	14.15	82.08	-67.68	-38.92
8	0.212	6.26	-0.84	44.44	238.83	-293.07	-53.39
9	0.204	419.11	-4.23	-59.82	-287.23	5275.82	-2331.18
10	0.188	4.68	3.11	15.97	26.76	-72.83	20.12
11	0.154	0.39	-34.74	8.17	364.79	3.82	-139.74
12	0.151	0.08	-3.03	-0.21	124.45	2.71	-17.94
13	0.149	0.65	28.66	0.58	-459.33	3.63	420.19
14	0.142	0.65	21.58	-0.15	-58.01	10.05	297.11
15	0.140	0.21	2.89	-2.32	-31.93	15.24	43.48
16	0.132	1.62	-4.93	8.81	47.39	13.29	9.68
17	0.130	0.00	0.04	0.67	2.05	-5.36	0.90
18	0.130	2.39	-1.61	-7.12	-21.84	85.76	17.13
19	0.122	209.78	5.75	8.89	-125.71	2504.75	-664.75
20	0.120	0.78	-15.68	-0.18	103.43	11.31	-133.71
21	0.114	1.30	-3.48	-1.01	215.25	24.36	-58.88
22	0.113	0.35	4.00	-0.07	-111.43	4.10	16.81
23	0.109	0.18	2.61	-0.03	-43.31	3.23	19.83
24	0.107	0.81	-1.39	-0.05	25.05	0.34	-8.10
25	0.105	0.02	1.20	-0.14	-20.37	0.91	8.86
26	0.103	0.45	-0.30	-0.54	3.17	9.12	-14.06
27	0.103	0.00	0.01	-0.00	-0.05	0.01	0.03
28	0.102	0.00	-0.00	0.00	0.02	-0.00	-0.01
29	0.102	0.00	-0.22	-0.00	0.98	0.04	-0.61
30	0.101	0.00	-0.12	-0.02	0.62	0.20	-0.40
31	0.100	0.00	0.00	0.00	-0.01	-0.00	0.00
32	0.099	0.07	-0.99	0.06	27.70	0.21	-18.05
33	0.099	0.00	0.05	-0.00	-0.99	0.00	0.68
34	0.099	0.01	0.01	-0.06	-0.53	0.55	0.27
35	0.099	0.00	0.11	-0.07	-0.37	0.64	0.28
36	0.099	0.00	-0.01	-0.00	0.28	0.02	-0.21
37	0.098	0.01	0.17	-0.03	4.23	0.39	0.33
38	0.098	0.00	-0.01	-0.00	0.35	0.01	-0.14
39	0.097	0.00	-0.02	0.00	0.50	0.00	-0.28
40	0.096	0.00	0.01	-0.00	-0.16	0.01	0.10
41	0.096	0.01	0.49	0.00	-4.67	0.05	5.48
42	0.095	0.01	0.11	0.03	-2.08	-0.18	1.53
43	0.095	0.04	0.10	0.03	-1.89	0.16	1.25
44	0.094	0.01	0.31	0.05	-0.85	-0.37	0.71
45	0.094	0.00	0.02	-0.00	-0.24	0.01	0.85
46	0.093	0.00	-0.03	0.15	1.05	-1.21	-0.89
47	0.093	0.00	0.02	0.01	-0.37	-0.05	0.08

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CMDA REGN NOS -
SE / GR-1 / 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.
Mob: 9941259164

STAAD SPACE -- PAGE NO. 92

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
48	0.093	0.01	0.16	-0.16	-2.02	1.46	0.48
49	0.092	0.02	-0.48	-0.28	11.86	2.64	-0.78
50	0.092	0.04	-0.84	-0.12	17.49	1.58	-1.51

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

PARTICIPATION FACTORS

MODE	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN KN		
	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	6.98	0.00	5.96	6.981	0.000	5.955	181.88	0.00	0.00
2	59.33	0.00	3.11	66.308	0.000	9.063	1701.82	0.00	0.00
3	6.38	0.00	65.29	72.686	0.000	74.352	198.99	0.00	0.00
4	0.35	0.00	0.82	73.031	0.001	75.169	27.75	0.00	0.00
5	10.99	0.00	1.71	84.020	0.001	76.881	883.30	0.00	0.00
6	2.15	0.00	10.17	86.167	0.001	87.050	172.63	0.00	0.00
7	0.07	0.00	0.44	86.238	0.005	87.487	5.69	0.00	0.00
8	0.08	0.00	3.92	86.316	0.006	91.409	6.26	0.00	0.00
9	5.21	0.00	0.11	91.530	0.007	91.516	419.11	0.00	0.00
10	0.06	0.03	0.68	91.588	0.032	92.193	4.68	0.00	0.00
11	0.00	38.43	0.00	91.593	38.467	92.194	0.39	0.00	0.00
12	0.00	1.37	0.01	91.594	39.839	92.201	0.08	0.00	0.00
13	0.01	15.68	0.01	91.602	55.524	92.208	0.65	0.00	0.00
14	0.01	8.94	0.00	91.610	64.464	92.208	0.65	0.00	0.00
15	0.00	0.49	0.32	91.613	64.959	92.525	0.21	0.00	0.00
16	0.02	0.19	0.01	91.633	65.146	92.530	1.62	0.00	0.00
17	0.00	0.01	1.73	91.633	65.153	94.258	0.00	0.00	0.00
18	0.03	0.01	0.26	91.663	65.166	94.522	2.39	0.00	0.00
19	2.61	0.00	0.00	94.272	65.168	94.527	209.78	0.00	0.00
20	0.01	3.90	0.00	94.282	69.072	94.527	0.78	0.00	0.00
21	0.02	0.12	0.01	94.298	69.187	94.537	1.30	0.00	0.00
22	0.00	0.81	0.00	94.303	69.998	94.537	0.35	0.00	0.00
23	0.00	0.48	0.00	94.305	70.474	94.537	0.18	0.00	0.00
24	0.00	2.39	0.00	94.305	72.865	94.541	0.01	0.00	0.00
25	0.00	1.06	0.01	94.305	73.923	94.554	0.02	0.00	0.00
26	0.01	0.00	0.01	94.311	73.926	94.562	0.45	0.00	0.00
27	0.00	0.01	0.00	94.311	73.936	94.562	0.00	0.00	0.00
28	0.00	0.04	0.00	94.311	73.978	94.562	0.00	0.00	0.00
29	0.00	0.29	0.00	94.311	74.268	94.562	0.00	0.00	0.00
30	0.00	0.04	0.00	94.311	74.307	94.563	0.00	0.00	0.00
31	0.00	0.01	0.00	94.311	74.319	94.563	0.00	0.00	0.00
32	0.00	0.18	0.00	94.312	74.499	94.564	0.07	0.00	0.00
33	0.00	0.30	0.00	94.312	74.796	94.564	0.00	0.00	0.00
34	0.00	0.00	0.01	94.312	74.797	94.571	0.01	0.00	0.00
35	0.00	0.04	0.02	94.312	74.837	94.590	0.00	0.00	0.00
36	0.00	0.01	0.00	94.312	74.846	94.590	0.00	0.00	0.00
37	0.00	0.05	0.00	94.312	74.893	94.592	0.01	0.00	0.00
38	0.00	0.00	0.00	94.312	74.894	94.592	0.00	0.00	0.00
39	0.00	0.00	0.00	94.312	74.896	94.592	0.00	0.00	0.00
40	0.00	0.01	0.00	94.312	74.904	94.592	0.00	0.00	0.00
41	0.00	0.61	0.00	94.312	75.515	94.592	0.01	0.00	0.00
42	0.00	0.02	0.00	94.312	75.534	94.593	0.01	0.00	0.00
43	0.00	0.00	0.00	94.313	75.537	94.594	0.04	0.00	0.00
44	0.00	0.21	0.01	94.313	75.751	94.599	0.01	0.00	0.00
45	0.00	0.00	0.00	94.313	75.754	94.599	0.00	0.00	0.00
46	0.00	0.04	1.07	94.313	75.793	95.667	0.00	0.00	0.00
47	0.00	0.00	0.00	94.313	75.798	95.667	0.00	0.00	0.00

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

STAAD SPACE -- PAGE NO. 94

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	0.04	0.04	94.313	75.834	95.704	0.01	0.00	0.00
49	0.00	0.14	0.05	94.313	75.973	95.751	0.02	0.00	0.00
50	0.00	0.25	0.01	94.314	76.219	95.757	0.04	0.00	0.00
ZPA	5.69	0.00	0.00	100.000	0.000	0.000	265.94	0.00	0.00
					TOTAL SRSS SHEAR		2017.46	0.00	0.00
					TOTAL 10PCT SHEAR		2250.41	0.00	0.00
					TOTAL ABS SHEAR		4087.16	0.00	0.00
					TOTAL CSM SHEAR		3620.37	0.00	0.00
					TOTAL CQC SHEAR		2261.60	0.00	0.00

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*************************************************************
* UNITS - KN    METE                                        *
* TIME PERIOD FOR X 1893 LOADING =    0.67000 SEC           *
* SA/G PER 1893=    2.030, LOAD FACTOR= 1.000               *
*      FACTOR V  PER 1893=    0.0406 X  55608.01            *
* VB Min based on Clause 7.2.2 =      612.57                *
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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	4.41	0.2489	0.1377	L / 1772	L / 3204	PASS	PASS
2	7.42	0.3369	0.1735	L / 894	L / 1735	PASS	PASS
3	10.43	0.4031	0.1977	L / 747	L / 1523	PASS	PASS
4	13.44	0.4351	0.2071	L / 692	L / 1454	PASS	PASS
5	16.45	0.4438	0.2088	L / 679	L / 1442	PASS	PASS
6	19.46	0.4377	0.2074	L / 688	L / 1452	PASS	PASS
7	22.47	0.4216	0.2041	L / 714	L / 1475	PASS	PASS
8	25.48	0.3983	0.1981	L / 756	L / 1520	PASS	PASS
9	28.49	0.3674	0.1849	L / 820	L / 1629	PASS	PASS
10	31.50	0.3346	0.1731	L / 900	L / 1739	PASS	PASS
11	34.51	0.3025	0.2308	L / 995	L / 1305	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	3.878751E+03	4.981096E-02	3.308653E+03	9.675647E+03
2	3.296139E+04	4.846837E-02	1.726551E+03	1.160952E+04
3	3.543773E+03	9.442540E-02	3.627455E+04	1.646803E+04
4	1.918168E+02	2.343864E-01	4.537594E+02	7.826890E+03
5	6.105164E+03	7.648031E-02	9.510667E+02	1.127969E+04
6	1.193206E+03	2.021957E-01	5.049944E+03	1.297471E+04
7	3.935611E+01	1.910886E+00	2.428918E+02	5.760704E+03
8	4.328966E+01	7.856227E-01	2.179257E+03	9.063934E+03
9	2.896792E+03	2.946702E-01	5.901533E+01	8.608658E+03
10	3.235781E+01	1.424374E+01	3.765651E+02	4.877177E+03
11	2.700236E+00	1.135406E+04	5.387295E-01	3.368597E+03
12	5.753414E-01	7.626241E+02	3.820702E+00	2.859520E+03

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13	4.503201E+00	8.714364E+03	3.624659E+00	2.193109E+03
14	4.479771E+00	4.967124E+03	2.462337E-01	2.125392E+03
15	1.454953E+00	2.747243E+02	1.762012E+02	8.816359E+03
16	1.120678E+01	1.036908E+02	2.780101E+00	2.754635E+03
17	2.230651E-02	4.079688E+00	9.597315E+02	7.686852E+03
18	1.651248E+01	7.499587E+00	1.468231E+02	2.538687E+03
19	1.449938E+03	1.089602E+00	2.604404E+00	6.986839E+03
20	5.416223E+00	2.168757E+03	2.719863E-01	3.221205E+03
21	9.000429E+00	6.415508E+01	5.437604E+00	3.046069E+03
22	2.444153E+00	4.502840E+02	9.054394E-02	2.413581E+03
23	1.233364E+00	2.644971E+02	2.484056E-02	4.631884E+03
24	6.994562E-02	1.328873E+03	1.824439E+00	5.419947E+03
25	1.179372E-01	5.876724E+02	7.566739E+00	6.783303E+03
26	3.112927E+00	1.353828E+00	4.412297E+00	7.004126E+03
27	1.068536E-03	5.805623E+00	3.326147E-02	6.301999E+02
28	4.882356E-05	2.323649E+01	3.442170E-02	3.938317E+02
29	1.409179E-02	1.609392E+02	3.222120E-02	3.692593E+02
30	3.216815E-02	2.201225E+01	5.382616E-01	4.247618E+02
31	6.818298E-06	6.354953E+00	1.224607E-01	4.525434E+02
32	4.691541E-01	1.001219E+02	3.607352E-01	4.881186E+03
33	7.694828E-04	1.653337E+02	1.845337E-03	3.930855E+02
34	3.546843E-02	2.929190E-01	4.540545E+00	4.833272E+02
35	2.457735E-02	2.232302E+01	9.609302E+00	3.612925E+02
36	1.869194E-03	4.976428E+00	1.095363E-01	4.172087E+02
37	5.686349E-02	2.608395E+01	1.033129E+00	4.621541E+03
38	3.226586E-03	4.492762E-01	4.525448E-03	4.409336E+02
39	1.485270E-02	1.091805E+00	2.975679E-02	4.833877E+02
40	5.061132E-04	4.301379E+00	2.040189E-02	3.491572E+02
41	3.583911E-02	3.395539E+02	3.127571E-05	3.430193E+03
42	5.822367E-02	1.091540E+01	8.426068E-01	2.449819E+02
43	2.828742E-01	1.757652E+00	2.067680E-01	3.886896E+02
44	4.171362E-02	1.185748E+02	2.830805E+00	1.284567E+02
45	6.550792E-03	1.838490E+00	2.742219E-04	6.756848E+02
46	1.859797E-03	2.162139E+01	5.934414E+02	5.681959E+03
47	1.026856E-02	2.438970E+00	2.983483E-01	5.640255E+02
48	6.613280E-02	2.050433E+01	2.047814E+01	4.067123E+02
49	1.563199E-01	7.679431E+01	2.605287E+01	8.367260E+02
50	2.686750E-01	1.370692E+02	3.048334E+00	4.392593E+02

CQC MODAL COMBINATION METHOD USED.
MISSING MASS METHOD USED.

DYNAMIC WEIGHT X Y Z 5.555949E+04 5.555949E+04 5.555949E+04 KN
MISSING WEIGHT X Y Z -3.159222E+03 -1.321239E+04 -2.357573E+03 KN
MODAL WEIGHT X Y Z 5.240027E+04 4.234710E+04 5.320192E+04 KN

RESPONSE LOAD CASE 10

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
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MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	0.81027	-0.0469	0.0000	0.0000
2	0.89216	-0.0516	0.0000	0.0000
3	0.97030	-0.0562	0.0000	0.0000
4	2.50000	-0.1447	0.0000	0.0000
5	2.50000	-0.1447	0.0000	0.0000
6	2.50000	-0.1447	0.0000	0.0000
7	2.50000	-0.1447	0.0000	0.0000
8	2.50000	-0.1447	0.0000	0.0000
9	2.50000	-0.1447	0.0000	0.0000
10	2.50000	-0.1447	0.0000	0.0000
11	2.50000	-0.1447	0.0000	0.0000
12	2.50000	-0.1447	0.0000	0.0000
13	2.50000	-0.1447	0.0000	0.0000
14	2.50000	-0.1447	0.0000	0.0000
15	2.50000	-0.1447	0.0000	0.0000
16	2.50000	-0.1447	0.0000	0.0000
17	2.50000	-0.1447	0.0000	0.0000
18	2.50000	-0.1447	0.0000	0.0000
19	2.50000	-0.1447	0.0000	0.0000
20	2.50000	-0.1447	0.0000	0.0000
21	2.50000	-0.1447	0.0000	0.0000
22	2.50000	-0.1447	0.0000	0.0000
23	2.50000	-0.1447	0.0000	0.0000
24	2.50000	-0.1447	0.0000	0.0000
25	2.50000	-0.1447	0.0000	0.0000
26	2.50000	-0.1447	0.0000	0.0000
27	2.50000	-0.1447	0.0000	0.0000
28	2.50000	-0.1447	0.0000	0.0000
29	2.50000	-0.1447	0.0000	0.0000
30	2.50000	-0.1447	0.0000	0.0000
31	2.49483	-0.1444	0.0000	0.0000
32	2.48947	-0.1441	0.0000	0.0000
33	2.48745	-0.1440	0.0000	0.0000
34	2.47877	-0.1435	0.0000	0.0000
35	2.47787	-0.1434	0.0000	0.0000
36	2.47753	-0.1434	0.0000	0.0000
37	2.47128	-0.1430	0.0000	0.0000
38	2.46826	-0.1428	0.0000	0.0000
39	2.45403	-0.1420	0.0000	0.0000
40	2.44324	-0.1414	0.0000	0.0000
41	2.44055	-0.1412	0.0000	0.0000
42	2.43224	-0.1408	0.0000	0.0000
43	2.43093	-0.1407	0.0000	0.0000
44	2.41537	-0.1398	0.0000	0.0000
45	2.40329	-0.1391	0.0000	0.0000
46	2.39826	-0.1388	0.0000	0.0000
47	2.39651	-0.1387	0.0000	0.0000
48	2.39071	-0.1384	0.0000	0.0000
49	2.38708	-0.1381	0.0000	0.0000
50	2.38287	-0.1379	0.0000	0.0000

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

STAAD SPACE -- PAGE NO. 98

PEAK STORY SHEAR

STORY	LEVEL IN METR	PEAK STORY SHEAR IN KN		
		X	Y	Z
11	34.51	374.78	0.00	0.00
10	31.50	775.89	0.00	0.00
9	28.49	1067.70	0.00	0.00
8	25.48	1264.68	0.00	0.00
7	22.47	1410.85	0.00	0.00
6	19.46	1538.59	0.00	0.00
5	16.45	1679.90	0.00	0.00
4	13.44	1837.05	0.00	0.00
3	10.43	1998.17	0.00	0.00
2	7.42	2146.81	0.00	0.00
1	4.41	2237.13	0.00	0.00
BASE	0.00	2245.91	0.00	0.00

MODE	ACCELERATION-G	DAMPING
1	2.93074	0.05000
2	3.22693	0.05000
3	3.50957	0.05000
4	9.04250	0.05000
5	9.04250	0.05000
6	9.04250	0.05000
7	9.04250	0.05000
8	9.04250	0.05000
9	9.04250	0.05000
10	9.04250	0.05000
11	9.04250	0.05000
12	9.04250	0.05000
13	9.04250	0.05000
14	9.04250	0.05000
15	9.04250	0.05000
16	9.04250	0.05000
17	9.04250	0.05000
18	9.04250	0.05000
19	9.04250	0.05000
20	9.04250	0.05000
21	9.04250	0.05000
22	9.04250	0.05000
23	9.04250	0.05000
24	9.04250	0.05000
25	9.04250	0.05000
26	9.04250	0.05000
27	9.04250	0.05000
28	9.04250	0.05000
29	9.04250	0.05000

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MODE	ACCELERATION-G	DAMPING
30	9.04250	0.05000
31	9.02379	0.05000
32	9.00441	0.05000
33	8.99710	0.05000
34	8.96573	0.05000
35	8.96247	0.05000
36	8.96123	0.05000
37	8.93833	0.05000
38	8.92768	0.05000
39	8.87622	0.05000
40	8.83721	0.05000
41	8.82748	0.05000
42	8.79740	0.05000
43	8.79269	0.05000
44	8.73639	0.05000
45	8.69271	0.05000
46	8.67452	0.05000
47	8.66817	0.05000
48	8.64720	0.05000
49	8.63489	0.05000
50	8.61882	0.05000

PEAK STORY SHEAR MIS

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN INCLUDING MISSING MASS CORRECTION		
		X	Y	Z
11	34.51	375.62	0.00	0.00
10	31.50	776.86	0.00	0.00
9	28.49	1067.94	0.00	0.00
8	25.48	1265.43	0.00	0.00
7	22.47	1410.96	0.00	0.00
6	19.46	1538.97	0.00	0.00
5	16.45	1680.85	0.00	0.00
4	13.44	1837.08	0.00	0.00
3	10.43	1999.36	0.00	0.00
2	7.42	2148.21	0.00	0.00
1	4.41	2239.08	0.00	0.00
BASE	0.00	2261.60	0.00	0.00
ZPA		5.26189		
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	1.678	-181.88	0.65	-167.98	-3987.23	-736.14	4438.59
2	1.524	-1701.82	2.06	-389.49	-9396.63	-16835.48	48795.13
3	1.402	-198.99	1.03	636.66	15094.78	-7438.43	4761.21
4	0.524	-27.75	-0.97	-42.68	83.72	-9.92	61.56
5	0.431	-883.30	-3.12	-348.63	-489.74	-8852.39	1373.16
6	0.415	-172.63	-2.25	375.65	163.41	-4999.37	131.07
7	0.287	-5.69	1.25	-14.15	-82.08	67.68	38.92
8	0.212	-6.26	0.84	-44.44	-238.83	293.07	53.39
9	0.204	-410.11	4.23	59.82	287.23	-5275.82	2331.18
10	0.188	-4.68	-3.11	-15.97	-26.76	72.83	-20.12
11	0.154	-0.39	34.74	-0.17	-364.79	-3.02	139.74
12	0.151	-0.08	3.03	0.21	-124.45	-2.71	17.94
13	0.149	-0.65	-28.66	-0.58	459.33	-3.63	-420.19
14	0.142	-0.65	-21.58	0.15	58.01	-10.05	-297.11
15	0.140	-0.21	-2.89	2.32	31.93	-15.24	-43.48
16	0.132	-1.62	4.93	-0.81	-47.39	-13.29	-9.68
17	0.130	-0.00	-0.04	-0.67	-2.05	5.36	-0.90
18	0.130	-2.39	1.61	7.12	21.84	-85.76	-17.13
19	0.122	-209.78	-5.75	-8.89	125.71	-2504.75	664.75
20	0.120	-0.78	15.68	0.18	-103.43	-11.31	133.71
21	0.114	-1.30	3.48	1.01	-215.25	-24.36	58.88
22	0.113	-0.35	-4.00	0.07	111.43	-4.10	-16.81
23	0.109	-0.18	-2.61	0.03	43.31	-3.23	-19.03
24	0.107	-0.01	1.39	0.05	-25.85	-0.34	8.10
25	0.105	-0.02	-1.20	0.14	20.37	-0.91	-8.86
26	0.103	-0.45	0.30	0.54	-3.17	-9.12	14.06
27	0.103	-0.00	-0.01	0.00	0.05	-0.01	-0.03
28	0.102	-0.00	0.00	-0.00	-0.02	0.00	0.01
29	0.102	-0.00	0.22	0.00	-0.98	-0.04	0.61
30	0.101	-0.00	0.12	0.02	-0.62	-0.20	0.40
31	0.100	-0.00	-0.00	-0.00	0.01	0.00	-0.00
32	0.099	-0.07	0.99	-0.06	-27.70	-0.21	18.05
33	0.099	-0.00	-0.05	0.00	0.99	-0.00	-0.68
34	0.099	-0.01	-0.01	0.06	0.53	-0.55	-0.27
35	0.099	-0.00	-0.11	0.07	0.37	-0.64	-0.28
36	0.099	-0.00	0.01	0.00	-0.28	-0.02	0.21
37	0.098	-0.01	-0.17	0.03	-4.23	-0.39	-0.33
38	0.098	-0.00	0.01	0.00	-0.35	-0.01	0.14
39	0.097	-0.00	0.02	-0.00	-0.50	-0.00	0.28
40	0.096	-0.00	-0.01	0.00	0.16	-0.01	-0.10
41	0.096	-0.01	-0.49	-0.00	4.67	-0.05	-5.48
42	0.095	-0.01	-0.11	-0.03	2.08	0.18	-1.53
43	0.095	-0.04	-0.10	-0.03	1.89	-0.16	-1.25
44	0.094	-0.01	-0.31	-0.05	0.85	0.37	-0.71
45	0.094	-0.00	-0.02	0.00	0.24	-0.01	-0.05
46	0.093	-0.00	0.03	-0.15	-1.05	1.21	0.09
47	0.093	-0.00	-0.02	-0.01	0.37	0.05	-0.08

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STAAD SPACE -- PAGE NO. 101

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
48	0.093	-0.01	-0.16	0.16	2.02	-1.46	-0.48
49	0.092	-0.02	0.48	0.28	-11.86	-2.64	0.78
50	0.092	-0.04	0.84	0.12	-17.49	-1.58	1.51

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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	6.98	0.00	5.96	6.981	0.000	5.955	-181.88	0.00	0.00
2	59.33	0.00	3.11	66.308	0.000	9.063	-1701.82	0.00	0.00
3	6.38	0.00	65.29	72.686	0.000	74.352	-198.99	0.00	0.00
4	0.35	0.00	0.82	73.031	0.001	75.169	-27.75	0.00	0.00
5	10.99	0.00	1.71	84.020	0.001	76.881	-883.30	0.00	0.00
6	2.15	0.00	10.17	86.167	0.001	87.050	-172.63	0.00	0.00
7	0.07	0.00	0.44	86.238	0.005	87.487	-5.69	0.00	0.00
8	0.08	0.00	3.92	86.316	0.006	91.409	-6.26	0.00	0.00
9	5.21	0.00	0.11	91.530	0.007	91.516	-419.11	0.00	0.00
10	0.06	0.03	0.68	91.588	0.032	92.193	-4.68	0.00	0.00
11	0.00	38.43	0.00	91.593	38.467	92.194	-0.39	0.00	0.00
12	0.00	1.37	0.01	91.594	39.839	92.201	-0.08	0.00	0.00
13	0.01	15.68	0.01	91.602	55.524	92.208	-0.65	0.00	0.00
14	0.01	8.94	0.00	91.610	64.464	92.208	-0.65	0.00	0.00
15	0.00	0.49	0.32	91.613	64.959	92.525	-0.21	0.00	0.00
16	0.02	0.19	0.01	91.633	65.146	92.530	-1.62	0.00	0.00
17	0.00	0.01	1.73	91.633	65.153	94.258	-0.00	0.00	0.00
18	0.03	0.01	0.26	91.663	65.166	94.522	-2.39	0.00	0.00
19	2.61	0.00	0.00	94.272	65.168	94.527	-209.78	0.00	0.00
20	0.01	3.90	0.00	94.282	69.072	94.527	-0.78	0.00	0.00
21	0.02	0.12	0.01	94.298	69.187	94.537	-1.30	0.00	0.00
22	0.00	0.81	0.00	94.303	69.998	94.537	-0.35	0.00	0.00
23	0.00	0.48	0.00	94.305	70.474	94.537	-0.18	0.00	0.00
24	0.00	2.39	0.00	94.305	72.865	94.541	-0.01	0.00	0.00
25	0.00	1.06	0.01	94.305	73.923	94.554	-0.02	0.00	0.00
26	0.01	0.00	0.01	94.311	73.926	94.562	-0.45	0.00	0.00
27	0.00	0.01	0.00	94.311	73.936	94.562	-0.00	0.00	0.00
28	0.00	0.04	0.00	94.311	73.978	94.562	-0.00	0.00	0.00
29	0.00	0.29	0.00	94.311	74.268	94.562	-0.00	0.00	0.00
30	0.00	0.04	0.00	94.311	74.307	94.563	-0.00	0.00	0.00
31	0.00	0.01	0.00	94.311	74.319	94.563	-0.00	0.00	0.00
32	0.00	0.18	0.00	94.312	74.499	94.564	-0.07	0.00	0.00
33	0.00	0.30	0.00	94.312	74.796	94.564	-0.00	0.00	0.00
34	0.00	0.00	0.01	94.312	74.797	94.572	-0.01	0.00	0.00
35	0.00	0.04	0.02	94.312	74.837	94.590	-0.00	0.00	0.00
36	0.00	0.01	0.00	94.312	74.846	94.590	-0.00	0.00	0.00
37	0.00	0.05	0.00	94.312	74.893	94.592	-0.01	0.00	0.00
38	0.00	0.00	0.00	94.312	74.894	94.592	-0.00	0.00	0.00
39	0.00	0.00	0.00	94.312	74.896	94.592	-0.00	0.00	0.00
40	0.00	0.01	0.00	94.312	74.904	94.592	-0.00	0.00	0.00
41	0.00	0.61	0.00	94.312	75.515	94.592	-0.01	0.00	0.00
42	0.00	0.02	0.00	94.312	75.534	94.593	-0.01	0.00	0.00
43	0.00	0.00	0.00	94.313	75.537	94.594	-0.04	0.00	0.00
44	0.00	0.21	0.01	94.313	75.751	94.599	-0.01	0.00	0.00
45	0.00	0.00	0.00	94.313	75.754	94.599	-0.00	0.00	0.00
46	0.00	0.04	1.07	94.313	75.793	95.667	-0.00	0.00	0.00
47	0.00	0.00	0.00	94.313	75.798	95.667	-0.00	0.00	0.00

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STAAD SPACE -- PAGE NO. 103

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	0.04	0.04	94.313	75.834	95.704	-0.01	0.00	0.00
49	0.00	0.14	0.05	94.313	75.973	95.751	-0.02	0.00	0.00
50	0.00	0.25	0.01	94.314	76.219	95.757	-0.04	0.00	0.00
ZPA	5.69	0.00	0.00	100.000	0.000	0.000	-265.94	0.00	0.00
					TOTAL SRSS SHEAR		-2017.46	0.00	0.00
					TOTAL 10PCT SHEAR		-2250.41	0.00	0.00
					TOTAL ABS SHEAR		-4087.16	0.00	0.00
					TOTAL CSM SHEAR		-3620.37	0.00	0.00
					TOTAL CQC SHEAR		-2261.60	0.00	0.00

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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	4.41	0.2489	0.1377	L / 1772	L / 3204	PASS	PASS
2	7.42	0.3369	0.1735	L / 894	L / 1735	PASS	PASS
3	10.43	0.4031	0.1977	L / 747	L / 1523	PASS	PASS
4	13.44	0.4351	0.2071	L / 692	L / 1454	PASS	PASS
5	16.45	0.4438	0.2088	L / 679	L / 1442	PASS	PASS
6	19.46	0.4377	0.2074	L / 688	L / 1452	PASS	PASS
7	22.47	0.4216	0.2041	L / 714	L / 1475	PASS	PASS
8	25.48	0.3983	0.1981	L / 756	L / 1520	PASS	PASS
9	28.49	0.3674	0.1849	L / 820	L / 1629	PASS	PASS
10	31.50	0.3346	0.1731	L / 900	L / 1739	PASS	PASS
11	34.51	0.3025	0.2308	L / 995	L / 1305	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	3.878751E+03	4.981096E-02	3.308653E+03	9.675647E+03
2	3.296139E+04	4.846837E-02	1.726551E+03	1.160952E+04
3	3.543773E+03	9.442540E-02	3.627455E+04	1.646883E+04
4	1.918168E+02	2.343864E-01	4.537594E+02	7.826890E+03
5	6.185164E+03	7.640831E-02	9.518667E+02	1.127969E+04
6	1.193206E+03	2.021957E-01	5.649944E+03	1.297471E+04
7	3.935611E+01	1.910886E+00	2.428918E+02	5.760704E+03
8	4.328966E+01	7.856227E-01	2.179257E+03	9.063934E+03
9	2.896792E+03	2.946702E-01	5.901533E+01	8.688658E+03
10	3.235781E+01	1.424374E+01	3.765651E+02	4.877177E+03
11	2.708236E+00	2.135406E+04	5.307295E-01	3.368507E+03
12	5.753414E-01	7.626241E+02	3.820702E+00	2.859520E+03



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STAAD SPACE -- PAGE NO. 105

13	4.583201E+00	8.714364E+03	3.624659E+00	2.193109E+03
14	4.479771E+00	4.967124E+03	2.462337E-01	2.125392E+03
15	1.454953E+00	2.747243E+02	1.762812E+02	8.016359E+03
16	1.120678E+01	1.036908E+02	2.780101E+00	2.754635E+03
17	2.230651E-02	4.079688E+00	9.597315E+02	7.686852E+03
18	1.651248E+01	7.499507E+00	1.468231E+02	2.538687E+03
19	1.449938E+03	1.089602E+00	2.604404E+00	6.986839E+03
20	5.416223E+00	2.168757E+03	2.719863E-01	3.221205E+03
21	9.000429E+00	6.415500E+01	5.437604E+00	3.046069E+03
22	2.444253E+00	4.502840E+02	9.054394E-02	2.413581E+03
23	1.233364E+00	2.644971E+02	2.484056E-02	4.631884E+03
24	6.994562E-02	1.328873E+03	1.824439E+00	5.419947E+03
25	1.179372E-01	5.876724E+02	7.566739E+00	6.783303E+03
26	3.112927E+00	1.353028E+00	4.412297E+00	7.004126E+03
27	1.068536E-03	5.805623E+00	3.326147E-02	6.301999E+02
28	4.882356E-05	2.323649E+01	3.442170E-02	3.938317E+02
29	1.489179E-02	1.609392E+02	3.222120E-02	3.692593E+02
30	3.216815E-02	2.201225E+01	5.382616E-01	4.247618E+02
31	6.818298E-06	6.354953E+00	1.224607E-01	4.525434E+02
32	4.691541E-01	1.001219E+02	3.607352E-01	4.881186E+03
33	7.694828E-04	1.653337E+02	1.845337E-03	3.930855E+02
34	3.546843E-02	2.929198E-01	4.540545E+00	4.833272E+02
35	2.457735E-02	2.232302E+01	9.600302E+00	3.612025E+02
36	1.869194E-03	4.976428E+00	1.095363E-01	4.172087E+02
37	5.686349E-02	2.608395E+01	1.033129E+00	4.621541E+03
38	3.226586E-03	4.492762E-01	4.525448E-03	4.409336E+02
39	1.485270E-02	1.091805E+00	2.975679E-02	4.833877E+02
40	5.061132E-04	4.301379E+00	2.040389E-02	3.491572E+02
41	3.583911E-02	3.395539E+02	3.127571E-05	3.430193E+03
42	5.822367E-02	1.091540E+01	8.426068E-01	2.449019E+02
43	2.828742E-01	1.757652E+00	2.067680E-01	5.886896E+02
44	4.171362E-02	1.185748E+02	2.830805E+00	1.204567E+02
45	6.550792E-03	1.838490E+00	2.742219E-04	6.756848E+02
46	1.859797E-03	2.162139E+01	5.934414E+02	5.681959E+03
47	1.026856E-02	2.438970E+00	2.983483E-01	5.640255E+02
48	6.613280E-02	2.050433E+01	2.047014E+01	4.067123E+02
49	1.563199E-01	7.679431E+01	2.685287E+01	8.367260E+02
50	2.686750E-01	1.370692E+02	3.848334E+00	4.392593E+02

CQC MODAL COMBINATION METHOD USED.
MISSING MASS METHOD USED.

DYNAMIC WEIGHT	X	Y	Z	5.555949E+04 5.555949E+04 5.555949E+04 KN
MISSING WEIGHT	X	Y	Z	-3.159222E+03 -1.321239E+04 -2.357573E+03 KN
MODAL WEIGHT	X	Y	Z	5.240027E+04 4.234710E+04 5.320192E+04 KN

RESPONSE LOAD CASE 11

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

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	0.81027	0.0000	0.0000	0.0541
2	0.89215	0.0000	0.0000	0.0596
3	0.97030	0.0000	0.0000	0.0648
4	2.50000	0.0000	0.0000	0.1669
5	2.50000	0.0000	0.0000	0.1669
6	2.50000	0.0000	0.0000	0.1669
7	2.50000	0.0000	0.0000	0.1669
8	2.50000	0.0000	0.0000	0.1669
9	2.50000	0.0000	0.0000	0.1669
10	2.50000	0.0000	0.0000	0.1669
11	2.50000	0.0000	0.0000	0.1669
12	2.50000	0.0000	0.0000	0.1669
13	2.50000	0.0000	0.0000	0.1669
14	2.50000	0.0000	0.0000	0.1669
15	2.50000	0.0000	0.0000	0.1669
16	2.50000	0.0000	0.0000	0.1669
17	2.50000	0.0000	0.0000	0.1669
18	2.50000	0.0000	0.0000	0.1669
19	2.50000	0.0000	0.0000	0.1669
20	2.50000	0.0000	0.0000	0.1669
21	2.50000	0.0000	0.0000	0.1669
22	2.50000	0.0000	0.0000	0.1669
23	2.50000	0.0000	0.0000	0.1669
24	2.50000	0.0000	0.0000	0.1669
25	2.50000	0.0000	0.0000	0.1669
26	2.50000	0.0000	0.0000	0.1669
27	2.50000	0.0000	0.0000	0.1669
28	2.50000	0.0000	0.0000	0.1669
29	2.50000	0.0000	0.0000	0.1669
30	2.50000	0.0000	0.0000	0.1669
31	2.49483	0.0000	0.0000	0.1666
32	2.48947	0.0000	0.0000	0.1662
33	2.48745	0.0000	0.0000	0.1661
34	2.47877	0.0000	0.0000	0.1655
35	2.47787	0.0000	0.0000	0.1654
36	2.47753	0.0000	0.0000	0.1654
37	2.47120	0.0000	0.0000	0.1650
38	2.46826	0.0000	0.0000	0.1648
39	2.45403	0.0000	0.0000	0.1639
40	2.44324	0.0000	0.0000	0.1631
41	2.44055	0.0000	0.0000	0.1630
42	2.43224	0.0000	0.0000	0.1624
43	2.43093	0.0000	0.0000	0.1623
44	2.41537	0.0000	0.0000	0.1613
45	2.40329	0.0000	0.0000	0.1605
46	2.39826	0.0000	0.0000	0.1601
47	2.39651	0.0000	0.0000	0.1600
48	2.39071	0.0000	0.0000	0.1596
49	2.38708	0.0000	0.0000	0.1594
50	2.38287	0.0000	0.0000	0.1591

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

PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
11	34.51	0.00	0.00	415.87
10	31.50	0.00	0.00	879.39
9	28.49	0.00	0.00	1256.79
8	25.48	0.00	0.00	1530.29
7	22.47	0.00	0.00	1741.70
6	19.46	0.00	0.00	1926.60
5	16.45	0.00	0.00	2108.04
4	13.44	0.00	0.00	2297.01
3	10.43	0.00	0.00	2480.02
2	7.42	0.00	0.00	2637.13
1	4.41	0.00	0.00	2734.83
BASE	0.00	0.00	0.00	2744.67

MODE	ACCELERATION-G	DAMPING
1	3.38125	0.05000
2	3.72297	0.05000
3	4.04906	0.05000
4	10.43250	0.05000
5	10.43250	0.05000
6	10.43250	0.05000
7	10.43250	0.05000
8	10.43250	0.05000
9	10.43250	0.05000
10	10.43250	0.05000
11	10.43250	0.05000
12	10.43250	0.05000
13	10.43250	0.05000
14	10.43250	0.05000
15	10.43250	0.05000
16	10.43250	0.05000
17	10.43250	0.05000
18	10.43250	0.05000
19	10.43250	0.05000
20	10.43250	0.05000
21	10.43250	0.05000
22	10.43250	0.05000
23	10.43250	0.05000
24	10.43250	0.05000
25	10.43250	0.05000
26	10.43250	0.05000
27	10.43250	0.05000
28	10.43250	0.05000
29	10.43250	0.05000

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

MODE	ACCELERATION-G	DAMPING
30	10.43250	0.05000
31	10.41091	0.05000
32	10.38855	0.05000
33	10.38012	0.05000
34	10.34302	0.05000
35	10.34016	0.05000
36	10.33874	0.05000
37	10.31232	0.05000
38	10.30003	0.05000
39	10.24066	0.05000
40	10.19565	0.05000
41	10.18443	0.05000
42	10.14972	0.05000
43	10.14429	0.05000
44	10.07933	0.05000
45	10.02894	0.05000
46	10.00795	0.05000
47	10.00062	0.05000
48	9.97643	0.05000
49	9.96131	0.05000
50	9.94370	0.05000

PEAK STORY SHEAR MIS

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN INCLUDING MISSING MASS CORRECTION		
		X	Y	Z
11	34.51	0.00	0.00	416.09
10	31.50	0.00	0.00	879.41
9	28.49	0.00	0.00	1257.05
8	25.48	0.00	0.00	1530.31
7	22.47	0.00	0.00	1741.89
6	19.46	0.00	0.00	1926.72
5	16.45	0.00	0.00	2108.19
4	13.44	0.00	0.00	2297.47
3	10.43	0.00	0.00	2480.07
2	7.42	0.00	0.00	2638.41
1	4.41	0.00	0.00	2735.12
BASE	0.00	0.00	0.00	2754.21
ZPA		0.06982		
ZPAFREQ		33.00000		

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
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	1.678	193.81	-0.69	179.03	4248.65	784.41	-4729.60
2	1.524	449.37	-0.54	102.85	2481.18	4445.39	-10771.97
3	1.402	-734.53	3.79	2358.85	55717.91	-27427.24	17574.59
4	0.524	49.25	1.72	75.74	-148.56	17.60	-109.24
5	0.431	402.22	1.42	158.75	223.81	3666.75	-625.28
6	0.415	-433.40	-5.64	943.09	410.25	-12551.02	329.06
7	0.287	16.32	-3.60	40.54	235.24	-193.98	-111.56
8	0.212	51.27	-6.91	363.76	1955.03	-2399.03	-437.01
9	0.204	-69.02	0.70	9.85	47.30	-868.79	383.88
10	0.188	18.43	12.22	62.86	105.33	-286.62	79.17
11	0.154	0.20	-17.77	0.09	186.58	1.54	-71.48
12	0.151	-0.25	9.01	0.64	-370.01	-8.06	53.34
13	0.149	0.67	29.67	0.61	-475.45	3.76	434.93
14	0.142	-0.18	-5.84	0.04	15.69	-2.72	-80.36
15	0.140	-2.67	-36.72	29.41	405.35	-193.50	-552.08
16	0.132	0.93	-2.83	0.46	27.23	7.64	5.56
17	0.130	0.77	10.44	160.20	489.65	-1283.47	215.43
18	0.130	-8.22	5.54	24.51	75.12	-295.03	-58.93
19	0.122	10.26	0.28	0.43	-6.15	122.47	-32.50
20	0.120	-0.20	4.05	0.05	-26.74	-2.93	34.57
21	0.114	-1.17	3.12	0.91	-193.03	-21.84	52.80
22	0.113	-0.08	-1.07	0.02	24.74	-0.91	-3.73
23	0.109	-0.03	-0.43	0.00	7.09	-0.53	-3.12
24	0.107	-0.06	8.22	0.30	-147.58	-1.99	47.71
25	0.105	-0.16	-11.13	1.26	188.28	-8.42	-81.88
26	0.103	-0.62	0.41	0.74	-4.36	-12.53	19.31
27	0.103	-0.00	-0.07	0.01	0.32	-0.05	-0.18
28	0.102	0.00	-0.15	0.01	0.67	-0.05	-0.40
29	0.102	-0.00	0.38	0.01	-1.71	-0.08	1.06
30	0.101	-0.02	0.57	0.00	-2.94	-0.94	1.87
31	0.100	0.00	0.15	0.02	-0.97	-0.20	0.56
32	0.099	0.07	-1.00	0.06	28.03	0.21	-18.26
33	0.099	-0.00	-0.09	0.00	1.76	-0.00	-1.21
34	0.099	-0.07	-0.19	0.75	6.94	-7.14	-3.48
35	0.099	-0.08	-2.42	1.59	8.41	-14.64	-6.46
36	0.099	-0.00	0.12	0.02	-2.51	-0.18	1.88
37	0.098	-0.04	-0.86	0.17	-20.80	-1.94	-1.63
38	0.098	-0.00	0.01	0.00	-0.47	-0.01	0.19
39	0.097	0.00	-0.03	0.00	0.82	0.00	-0.46
40	0.096	-0.00	-0.05	0.00	1.20	-0.04	-0.73
41	0.096	0.00	0.02	0.00	-0.16	0.00	0.19
42	0.095	0.04	0.49	0.14	-9.15	-0.88	6.70
43	0.095	0.04	0.10	0.03	-1.86	0.16	1.24
44	0.094	0.06	2.95	0.46	-8.89	-3.55	6.75
45	0.094	-0.00	-0.00	0.00	0.06	-0.00	-0.01
46	0.093	0.17	-18.14	95.03	681.91	-789.67	-61.87
47	0.093	0.01	0.14	0.05	-2.33	-0.33	0.51

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9941250154

STAAD SPACE -- PAGE NO. 110

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
48	0.093	-0.19	-3.27	3.27	40.98	-29.67	-9.85
49	0.092	-0.32	7.13	4.15	-176.71	-39.26	11.58
50	0.092	-0.14	3.25	0.48	-67.96	-6.15	5.88

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
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	6.98	0.00	5.96	6.981	0.000	5.955	0.00	0.00	179.00
2	59.33	0.00	3.11	66.308	0.000	9.063	0.00	0.00	102.85
3	6.38	0.00	65.29	72.686	0.000	74.352	0.00	0.00	2350.05
4	0.35	0.00	0.82	73.031	0.001	75.169	0.00	0.00	75.74
5	10.99	0.00	1.71	84.020	0.001	76.881	0.00	0.00	158.75
6	2.15	0.00	10.17	86.167	0.001	87.050	0.00	0.00	943.09
7	0.07	0.00	0.44	86.238	0.005	87.487	0.00	0.00	40.54
8	0.08	0.00	3.92	86.316	0.006	91.409	0.00	0.00	363.76
9	5.21	0.00	0.11	91.530	0.007	91.516	0.00	0.00	9.85
10	0.06	0.03	0.68	91.588	0.032	92.191	0.00	0.00	62.86
11	0.00	38.43	0.00	91.593	38.467	92.194	0.00	0.00	0.09
12	0.00	1.37	0.01	91.594	39.839	92.201	0.00	0.00	0.64
13	0.01	15.68	0.01	91.602	55.524	92.208	0.00	0.00	0.61
14	0.01	8.94	0.00	91.610	64.464	92.208	0.00	0.00	0.04
15	0.00	0.49	0.32	91.613	64.959	92.525	0.00	0.00	29.41
16	0.02	0.19	0.01	91.633	65.146	92.530	0.00	0.00	0.46
17	0.00	0.01	1.73	91.633	65.153	94.258	0.00	0.00	168.20
18	0.03	0.01	0.26	91.663	65.166	94.522	0.00	0.00	24.51
19	2.61	0.00	0.00	94.272	65.168	94.527	0.00	0.00	0.43
20	0.01	3.90	0.00	94.282	69.072	94.527	0.00	0.00	0.05
21	0.02	0.12	0.01	94.298	69.187	94.537	0.00	0.00	0.91
22	0.00	0.81	0.00	94.303	69.998	94.537	0.00	0.00	0.02
23	0.00	0.48	0.00	94.305	70.474	94.537	0.00	0.00	0.00
24	0.00	2.39	0.00	94.305	72.865	94.541	0.00	0.00	0.30
25	0.00	1.06	0.01	94.305	73.923	94.554	0.00	0.00	1.26
26	0.01	0.00	0.01	94.311	73.926	94.562	0.00	0.00	0.74
27	0.00	0.01	0.00	94.311	73.936	94.562	0.00	0.00	0.01
28	0.00	0.04	0.00	94.311	73.978	94.562	0.00	0.00	0.01
29	0.00	0.29	0.00	94.311	74.268	94.562	0.00	0.00	0.01
30	0.00	0.04	0.00	94.311	74.307	94.563	0.00	0.00	0.09
31	0.00	0.01	0.00	94.311	74.319	94.563	0.00	0.00	0.02
32	0.00	0.18	0.00	94.312	74.499	94.564	0.00	0.00	0.06
33	0.00	0.30	0.00	94.312	74.796	94.564	0.00	0.00	0.00
34	0.00	0.00	0.01	94.312	74.797	94.571	0.00	0.00	0.75
35	0.00	0.04	0.02	94.312	74.837	94.590	0.00	0.00	1.59
36	0.00	0.01	0.00	94.312	74.846	94.590	0.00	0.00	0.02
37	0.00	0.05	0.00	94.312	74.893	94.591	0.00	0.00	0.17
38	0.00	0.00	0.00	94.312	74.894	94.591	0.00	0.00	0.00
39	0.00	0.00	0.00	94.312	74.896	94.592	0.00	0.00	0.00
40	0.00	0.01	0.00	94.312	74.904	94.592	0.00	0.00	0.00
41	0.00	0.61	0.00	94.312	75.515	94.592	0.00	0.00	0.00
42	0.00	0.02	0.00	94.312	75.534	94.593	0.00	0.00	0.14
43	0.00	0.00	0.00	94.313	75.537	94.594	0.00	0.00	0.03
44	0.00	0.21	0.01	94.313	75.751	94.599	0.00	0.00	0.46
45	0.00	0.00	0.00	94.313	75.754	94.599	0.00	0.00	0.00
46	0.00	0.04	1.07	94.313	75.793	95.667	0.00	0.00	95.03
47	0.00	0.00	0.00	94.313	75.798	95.667	0.00	0.00	0.05

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3-B, RAMANIYAM GAURAV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
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STAAD SPACE -- PAGE NO. 112

	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	0.04	0.04	94.313	75.834	95.704	0.00	0.00	3.27
49	0.00	0.14	0.05	94.313	75.973	95.751	0.00	0.00	4.15
50	0.00	0.25	0.01	94.314	76.219	95.757	0.00	0.00	0.48
ZPA	0.00	0.00	4.24	0.000	0.000	100.000	0.00	0.00	228.96
					TOTAL SRSS SHEAR		0.00	0.00	2590.81
					TOTAL 10PCT SHEAR		0.00	0.00	2743.17
					TOTAL ABS SHEAR		0.00	0.00	4841.44
					TOTAL CSM SHEAR		0.00	0.00	4327.82
					TOTAL CQC SHEAR		0.00	0.00	2754.21

```
*************************************************************
* UNITS - KN    METE                                        *
* TIME PERIOD FOR Z 1893 LOADING =    0.55000 SEC           *
* SA/G PER 1893=    2.473, LOAD FACTOR= 1.000               *
*      FACTOR V  PER 1893=    0.0495 X  55688.01            *
* VB Min based on Clause 7.2.2 =      612.57                *
*************************************************************
```

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STAAD SPACE -- PAGE NO. 113

STORY DRIFT CHECK

STORY	HEIGHT	INTERSTORY DRIFT(CM)		RATIO		STATUS	
	(METE)	X	Z	X	Z	X	Z
BASE	0.00						
1	4.41	0.1518	0.3112	L / 2906	L / 1418	PASS	PASS
2	7.42	0.1958	0.3911	L / 1537	L / 770	PASS	PASS
3	10.43	0.2276	0.4478	L / 1323	L / 672	PASS	PASS
4	13.44	0.2401	0.4695	L / 1254	L / 641	PASS	PASS
5	16.45	0.2416	0.4695	L / 1246	L / 641	PASS	PASS
6	19.46	0.2386	0.4558	L / 1262	L / 661	PASS	PASS
7	22.47	0.2334	0.4327	L / 1290	L / 696	PASS	PASS
8	25.48	0.2250	0.4022	L / 1338	L / 749	PASS	PASS
9	28.49	0.2181	0.3648	L / 1380	L / 825	PASS	PASS
10	31.50	0.2052	0.3302	L / 1467	L / 912	PASS	PASS
11	34.51	0.3659	0.3191	L / 823	L / 944	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	3.878751E+03	4.981096E-02	3.308653E+03	9.675647E+03
2	3.296139E+04	4.846837E-02	1.726551E+03	1.160952E+04
3	3.543773E+03	9.442540E-02	3.627455E+04	1.646803E+04
4	1.918168E+02	2.343864E-01	4.537594E+02	7.826890E+03
5	6.105164E+03	7.640031E-02	9.510667E+02	1.127969E+04
6	1.193286E+03	2.021957E-01	5.649944E+03	1.297471E+04
7	3.935611E+01	1.910886E+00	2.428918E+02	5.760704E+03
8	4.328966E+01	7.856227E-01	2.179257E+03	9.063934E+03
9	2.896792E+03	2.946702E-01	5.901533E+01	8.608658E+03
10	3.235781E+01	1.424374E+01	3.765651E+02	4.877177E+03
11	2.700236E+00	2.135406E+04	5.307295E-01	3.368597E+03
12	5.753414E-01	7.626241E+02	3.820702E+00	2.859520E+03

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STAAD SPACE -- PAGE NO. 114

13	4.583281E+00	8.714364E+03	3.624659E+00	2.193109E+03
14	4.479771E+00	4.967124E+03	2.462337E-01	2.125392E+03
15	1.454953E+00	2.747243E+02	1.762012E+02	8.016359E+03
16	1.120678E+01	1.036908E+02	2.780101E+00	2.754635E+03
17	2.230651E-02	4.070688E+00	9.597315E+02	7.686852E+03
18	1.651248E+01	7.499507E+00	1.468231E+02	2.538687E+03
19	1.449938E+03	1.089602E+00	2.604404E+00	6.986839E+03
20	5.416223E+00	2.168757E+03	2.719863E-01	3.221205E+03
21	9.080429E+00	6.415508E+01	5.437604E+00	3.046069E+03
22	2.444253E+00	4.502840E+02	9.854394E-02	2.413581E+03
23	1.233364E+00	2.644971E+02	2.484856E-02	4.631884E+03
24	6.994562E-02	1.328873E+03	1.824439E+00	5.419947E+03
25	1.179372E-01	5.876724E+02	7.566739E+00	6.783383E+03
26	3.112927E+00	1.353028E+00	4.412297E+00	7.004126E+03
27	1.068536E-03	5.805623E+00	3.326147E-02	6.301599E+02
28	4.882356E-05	2.323649E+01	3.442170E-02	3.938317E+02
29	1.409179E-02	1.609392E+02	3.222120E-02	3.692593E+02
30	3.216815E-02	2.201225E+01	5.382616E-01	4.247618E+02
31	6.818298E-06	6.354953E+00	1.224607E-01	4.525434E+02
32	4.691541E-01	1.081219E+02	3.607352E-01	4.881186E+03
33	7.694828E-04	1.653337E+02	1.845337E-03	3.930855E+02
34	3.546843E-02	2.929198E-01	4.540545E+00	4.833272E+02
35	2.457735E-02	2.232302E+01	9.609302E+00	3.612925E+02
36	1.869194E-03	4.976428E+00	1.095363E-01	4.172087E+02
37	5.686349E-02	2.688395E+01	1.033129E+00	4.621541E+03
38	3.226586E-03	4.492762E-01	4.525448E-03	4.409336E+02
39	1.485270E-02	1.091805E+00	2.975679E-02	4.833877E+02
40	5.061132E-04	4.381379E+00	2.040389E-02	3.491572E+02
41	3.583911E-02	3.395539E+02	3.127571E-05	3.430193E+03
42	5.822367E-02	1.091540E+01	8.426068E-01	2.449019E+02
43	2.828742E-01	1.757652E+00	2.067680E-01	3.886896E+02
44	4.171362E-02	1.185748E+02	2.830805E+00	1.284567E+02
45	6.550792E-03	1.838490E+00	2.742219E-04	6.756848E+02
46	1.859797E-03	2.162139E+01	5.934414E+02	5.681959E+03
47	1.026856E-02	2.438970E+00	2.983483E-01	5.640255E+02
48	6.613280E-02	2.050433E+01	2.047814E+01	4.067123E+02
49	1.563199E-01	7.679431E+01	2.605287E+01	8.367260E+02
50	2.686750E-01	1.370692E+02	3.048334E+00	4.392593E+02

CQC MODAL COMBINATION METHOD USED.
MISSING MASS METHOD USED.

DYNAMIC WEIGHT X Y Z 5.555949E+04 5.555949E+04 5.555949E+04 KN
MISSING WEIGHT X Y Z -3.159222E+03 -1.321239E+04 -2.357573E+03 KN
MODAL WEIGHT X Y Z 5.240027E+04 4.234710E+04 5.320192E+04 KN

RESPONSE LOAD CASE 12

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MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	0.81027	0.0000	0.0000	-0.0541
2	0.89216	0.0000	0.0000	-0.0596
3	0.97030	0.0000	0.0000	-0.0648
4	2.50000	0.0000	0.0000	-0.1669
5	2.50000	0.0000	0.0000	-0.1669
6	2.50000	0.0000	0.0000	-0.1669
7	2.50000	0.0000	0.0000	-0.1669
8	2.50000	0.0000	0.0000	-0.1669
9	2.50000	0.0000	0.0000	-0.1669
10	2.50000	0.0000	0.0000	-0.1669
11	2.50000	0.0000	0.0000	-0.1669
12	2.50000	0.0000	0.0000	-0.1669
13	2.50000	0.0000	0.0000	-0.1669
14	2.50000	0.0000	0.0000	-0.1669
15	2.50000	0.0000	0.0000	-0.1669
16	2.50000	0.0000	0.0000	-0.1669
17	2.50000	0.0000	0.0000	-0.1669
18	2.50000	0.0000	0.0000	-0.1669
19	2.50000	0.0000	0.0000	-0.1669
20	2.50000	0.0000	0.0000	-0.1669
21	2.50000	0.0000	0.0000	-0.1669
22	2.50000	0.0000	0.0000	-0.1669
23	2.50000	0.0000	0.0000	-0.1669
24	2.50000	0.0000	0.0000	-0.1669
25	2.50000	0.0000	0.0000	-0.1669
26	2.50000	0.0000	0.0000	-0.1669
27	2.50000	0.0000	0.0000	-0.1669
28	2.50000	0.0000	0.0000	-0.1669
29	2.50000	0.0000	0.0000	-0.1669
30	2.50000	0.0000	0.0000	-0.1669
31	2.49483	0.0000	0.0000	-0.1666
32	2.48947	0.0000	0.0000	-0.1662
33	2.48745	0.0000	0.0000	-0.1661
34	2.47877	0.0000	0.0000	-0.1655
35	2.47787	0.0000	0.0000	-0.1654
36	2.47753	0.0000	0.0000	-0.1654
37	2.47120	0.0000	0.0000	-0.1650
38	2.46826	0.0000	0.0000	-0.1648
39	2.45403	0.0000	0.0000	-0.1639
40	2.44324	0.0000	0.0000	-0.1631
41	2.44055	0.0000	0.0000	-0.1630
42	2.43224	0.0000	0.0000	-0.1624
43	2.43093	0.0000	0.0000	-0.1623
44	2.41537	0.0000	0.0000	-0.1613
45	2.40329	0.0000	0.0000	-0.1605
46	2.39826	0.0000	0.0000	-0.1601
47	2.39651	0.0000	0.0000	-0.1600
48	2.39071	0.0000	0.0000	-0.1596
49	2.38708	0.0000	0.0000	-0.1594
50	2.38287	0.0000	0.0000	-0.1591

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PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
11	34.51	0.00	0.00	415.87
10	31.50	0.00	0.00	879.39
9	28.49	0.00	0.00	1256.79
8	25.48	0.00	0.00	1530.29
7	22.47	0.00	0.00	1741.70
6	19.46	0.00	0.00	1926.60
5	16.45	0.00	0.00	2108.04
4	13.44	0.00	0.00	2297.01
3	10.43	0.00	0.00	2480.02
2	7.42	0.00	0.00	2637.13
1	4.41	0.00	0.00	2734.83
BASE	0.00	0.00	0.00	2744.67

MODE	ACCELERATION-G	DAMPING
1	3.38125	0.05000
2	3.72297	0.05000
3	4.04906	0.05000
4	10.43250	0.05000
5	10.43250	0.05000
6	10.43250	0.05000
7	10.43250	0.05000
8	10.43250	0.05000
9	10.43250	0.05000
10	10.43250	0.05000
11	10.43250	0.05000
12	10.43250	0.05000
13	10.43250	0.05000
14	10.43250	0.05000
15	10.43250	0.05000
16	10.43250	0.05000
17	10.43250	0.05000
18	10.43250	0.05000
19	10.43250	0.05000
20	10.43250	0.05000
21	10.43250	0.05000
22	10.43250	0.05000
23	10.43250	0.05000
24	10.43250	0.05000
25	10.43250	0.05000
26	10.43250	0.05000
27	10.43250	0.05000
28	10.43250	0.05000
29	10.43250	0.05000

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MODE	ACCELERATION-G	DAMPING
30	10.43250	0.05000
31	10.41091	0.05000
32	10.38855	0.05000
33	10.38012	0.05000
34	10.34392	0.05000
35	10.34016	0.05000
36	10.33874	0.05000
37	10.31232	0.05000
38	10.30003	0.05000
39	10.24066	0.05000
40	10.19565	0.05000
41	10.18443	0.05000
42	10.14972	0.05000
43	10.14429	0.05000
44	10.07933	0.05000
45	10.02894	0.05000
46	10.00795	0.05000
47	10.00062	0.05000
48	9.97643	0.05000
49	9.96131	0.05000
50	9.94370	0.05000

PEAK STORY SHEAR MIS

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN INCLUDING MISSING MASS CORRECTION		
		X	Y	Z
11	34.51	0.00	0.00	416.09
10	31.50	0.00	0.00	879.41
9	28.49	0.00	0.00	1257.05
8	25.48	0.00	0.00	1530.31
7	22.47	0.00	0.00	1741.89
6	19.46	0.00	0.00	1926.72
5	16.45	0.00	0.00	2108.19
4	13.44	0.00	0.00	2297.47
3	10.43	0.00	0.00	2480.07
2	7.42	0.00	0.00	2638.41
1	4.41	0.00	0.00	2735.12
BASE	0.00	0.00	0.00	2754.21
ZPA		6.06982		
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	1.678	-193.81	0.69	-179.00	-4248.65	-784.41	4729.60
2	1.524	-449.37	0.54	-102.85	-2481.18	-4445.39	10771.97
3	1.402	734.53	-3.79	-2358.05	-55717.91	27427.24	-17574.59
4	0.524	-49.25	-1.72	-75.74	148.56	-17.60	109.24
5	0.431	-402.22	-1.42	-158.75	-223.01	-3666.75	625.28
6	0.415	433.40	5.64	-943.09	-410.25	12551.02	-329.06
7	0.287	-16.32	3.60	-48.54	-235.24	193.98	111.56
8	0.212	-51.27	6.91	-363.76	-1955.03	2399.03	437.01
9	0.204	69.02	-0.70	-9.85	-47.30	868.79	-583.88
10	0.188	-18.43	-12.22	-62.86	-105.33	286.62	-79.17
11	0.154	-0.20	17.77	-0.09	-186.58	-1.54	71.48
12	0.151	0.25	-9.01	-0.64	370.01	8.06	-53.34
13	0.149	-0.67	-29.67	-0.61	475.45	-3.76	-434.93
14	0.141	0.18	5.84	-0.04	-15.69	2.72	80.36
15	0.140	2.67	36.72	-29.41	-485.35	193.50	552.08
16	0.132	-0.93	2.83	-0.46	-27.23	-7.64	-5.56
17	0.130	-0.77	-10.44	-160.20	-489.65	1283.47	-215.43
18	0.130	8.22	-5.54	-24.51	-75.12	295.03	58.93
19	0.123	-10.26	-0.28	-0.43	6.15	-122.47	32.50
20	0.120	0.20	-4.05	-0.05	26.74	2.93	-34.57
21	0.114	1.17	-3.12	-0.91	193.03	21.84	-52.80
22	0.113	0.88	1.07	-0.02	-24.74	0.91	3.73
23	0.109	0.03	0.43	-0.00	-7.09	0.53	3.12
24	0.107	0.06	-8.22	-0.30	147.58	1.99	-47.71
25	0.105	0.16	11.13	-1.26	-188.28	8.42	81.88
26	0.103	0.62	-0.41	-0.74	4.36	12.53	-19.31
27	0.103	0.00	0.07	-0.01	-0.32	0.05	0.18
28	0.102	-0.00	0.15	-0.01	-0.67	0.05	0.40
29	0.102	0.00	-0.38	-0.01	1.71	0.08	-1.06
30	0.101	0.02	-0.57	-0.09	2.94	0.94	-1.87
31	0.100	-0.00	-0.15	-0.02	0.97	0.20	-0.56
32	0.099	-0.07	1.00	-0.06	-28.03	-0.21	18.26
33	0.099	0.00	0.09	-0.00	-1.76	0.00	1.21
34	0.099	0.07	0.19	-0.75	-6.94	7.14	3.48
35	0.099	0.08	2.42	-1.59	-8.41	14.64	6.46
36	0.099	0.00	-0.12	-0.02	2.51	0.18	-1.88
37	0.098	0.04	0.86	-0.17	10.80	1.94	1.63
38	0.098	0.00	-0.01	-0.00	0.47	0.01	-0.19
39	0.097	-0.00	0.03	-0.00	-0.82	-0.00	0.46
40	0.096	0.00	0.05	-0.00	-1.20	0.04	0.73
41	0.096	-0.00	-0.02	-0.00	0.16	-0.00	-0.19
42	0.095	-0.04	-0.49	-0.14	9.15	0.80	-6.70
43	0.095	-0.04	-0.10	-0.03	1.86	-0.16	-1.24
44	0.094	-0.06	-2.95	-0.46	8.89	3.55	-6.75
45	0.094	0.00	0.00	-0.00	-0.06	0.00	0.01
46	0.093	-0.17	18.14	-95.03	-681.91	789.67	61.87
47	0.093	-0.01	-0.14	-0.05	2.33	0.33	-0.51

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BLOCK-2, MODEL SCHOOL ROAD
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STAAD SPACE -- PAGE NO. 119

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
48	0.093	0.19	3.27	-3.27	-40.98	29.67	9.85
49	0.092	0.32	-7.13	-4.15	176.71	39.26	-11.58
50	0.092	0.14	-3.25	-0.48	67.96	6.15	-5.88

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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	6.98	0.00	5.96	6.981	0.000	5.955	0.00	0.00	-179.00
2	59.33	0.00	3.11	66.308	0.000	9.063	0.00	0.00	-102.85
3	6.38	0.00	65.29	72.686	0.000	74.352	0.00	0.00	-2350.85
4	0.35	0.00	0.82	73.031	0.001	75.169	0.00	0.00	-75.74
5	10.99	0.00	1.71	84.020	0.001	76.881	0.00	0.00	-158.75
6	2.15	0.00	10.17	86.167	0.001	87.050	0.00	0.00	-943.09
7	0.07	0.00	0.44	86.238	0.005	87.487	0.00	0.00	-48.54
8	0.08	0.00	3.92	86.316	0.006	91.409	0.00	0.00	-363.76
9	5.21	0.00	0.11	91.530	0.007	91.516	0.00	0.00	-9.85
10	0.06	0.03	0.68	91.588	0.032	92.193	0.00	0.00	-62.86
11	0.00	38.43	0.00	91.593	38.467	92.194	0.00	0.00	-0.09
12	0.00	1.37	0.01	91.594	39.839	92.201	0.00	0.00	-0.64
13	0.01	15.68	0.01	91.602	55.524	92.208	0.00	0.00	-0.61
14	0.01	8.94	0.00	91.610	64.464	92.208	0.00	0.00	-0.04
15	0.08	0.49	0.32	91.613	64.959	92.525	0.00	0.00	-29.41
16	0.02	0.19	0.01	91.633	65.146	92.530	0.00	0.00	-0.46
17	0.00	0.01	1.73	91.633	65.153	94.258	0.00	0.00	-160.20
18	0.03	0.01	0.26	91.663	65.166	94.522	0.00	0.00	-24.51
19	2.61	0.00	0.00	94.272	65.168	94.527	0.00	0.00	-0.43
20	0.01	3.90	0.00	94.282	69.072	94.527	0.00	0.00	-0.05
21	0.02	0.12	0.01	94.298	69.187	94.537	0.00	0.00	-0.91
22	0.00	0.81	0.00	94.303	69.998	94.537	0.00	0.00	-0.02
23	0.00	0.48	0.00	94.305	70.474	94.537	0.00	0.00	-0.00
24	0.00	2.39	0.00	94.305	72.865	94.541	0.00	0.00	-0.30
25	0.00	1.06	0.01	94.305	73.923	94.554	0.00	0.00	-1.26
26	0.01	0.00	0.01	94.311	73.926	94.562	0.00	0.00	-0.74
27	0.00	0.01	0.00	94.311	73.936	94.562	0.00	0.00	-0.01
28	0.00	0.04	0.00	94.311	73.978	94.562	0.00	0.00	-0.01
29	0.00	0.29	0.00	94.311	74.268	94.562	0.00	0.00	-0.01
30	0.00	0.04	0.00	94.311	74.307	94.563	0.00	0.00	-0.00
31	0.00	0.01	0.00	94.311	74.319	94.563	0.00	0.00	-0.02
32	0.00	0.18	0.00	94.312	74.499	94.564	0.00	0.00	-0.06
33	0.00	0.30	0.00	94.312	74.796	94.564	0.00	0.00	-0.00
34	0.00	0.00	0.01	94.312	74.797	94.572	0.00	0.00	-0.75
35	0.00	0.04	0.02	94.312	74.837	94.590	0.00	0.00	-1.59
36	0.00	0.01	0.00	94.312	74.846	94.590	0.00	0.00	-0.02
37	0.00	0.05	0.00	94.312	74.893	94.592	0.00	0.00	-0.17
38	0.00	0.00	0.00	94.312	74.894	94.592	0.00	0.00	-0.00
39	0.00	0.00	0.00	94.312	74.896	94.592	0.00	0.00	-0.00
40	0.00	0.01	0.00	94.312	74.904	94.592	0.00	0.00	-0.00
41	0.00	0.61	0.00	94.312	75.515	94.592	0.00	0.00	-0.00
42	0.00	0.02	0.00	94.312	75.534	94.593	0.00	0.00	-0.14
43	0.00	0.00	0.00	94.313	75.537	94.594	0.00	0.00	-0.03
44	0.00	0.21	0.01	94.313	75.751	94.599	0.00	0.00	-0.46
45	0.00	0.00	0.00	94.313	75.754	94.599	0.00	0.00	-0.00
46	0.00	0.04	1.07	94.313	75.793	95.667	0.00	0.00	-95.03
47	0.00	0.00	0.00	94.313	75.798	95.667	0.00	0.00	-0.05

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STAAD SPACE -- PAGE NO. 121

	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	0.04	0.04	94.313	75.834	95.704	0.00	0.00	-3.27
49	0.00	0.14	0.05	94.313	75.973	95.751	0.00	0.00	-4.15
50	0.00	0.25	0.01	94.314	76.219	95.757	0.00	0.00	-0.48
ZPA	0.00	0.00	4.24	0.000	0.000	100.000	0.00	0.00	-228.96
					TOTAL SRSS SHEAR		0.00	0.00	-2590.81
					TOTAL 10PCT SHEAR		0.00	0.00	-2743.17
					TOTAL ABS SHEAR		0.00	0.00	-4841.44
					TOTAL CSM SHEAR		0.00	0.00	-4327.82
					TOTAL CQC SHEAR		0.00	0.00	-2754.21

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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	4.41	0.1518	0.3112	L / 2906	L / 1418	PASS	PASS
2	7.42	0.1958	0.3911	L / 1537	L / 770	PASS	PASS
3	10.43	0.2276	0.4470	L / 1323	L / 672	PASS	PASS
4	13.44	0.2401	0.4695	L / 1254	L / 641	PASS	PASS
5	16.45	0.2416	0.4695	L / 1246	L / 641	PASS	PASS
6	19.46	0.2386	0.4558	L / 1262	L / 661	PASS	PASS
7	22.47	0.2334	0.4327	L / 1290	L / 696	PASS	PASS
8	25.48	0.2258	0.4022	L / 1338	L / 749	PASS	PASS
9	28.49	0.2181	0.3648	L / 1380	L / 825	PASS	PASS
10	31.50	0.2052	0.3302	L / 1467	L / 912	PASS	PASS
11	34.51	0.3659	0.3191	L / 823	L / 944	PASS	PASS

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4378. DEFINE ENVELOPE
4379. 3 17 TO 32 ENVELOPE 1 TYPE SERVICEABILITY
4380. 4 33 TO 56 ENVELOPE 2 TYPE STRENGTH
4381. END DEFINE ENVELOPE
4382. PRINT DIA CR
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STAAD SPACE -- PAGE NO. 123

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CENTRE OF RIGIDITY UNIT - METE

DIAPHRAM	FL. LEVEL	X-COORDINATE	Z-COORDINATE
1	4.410	7.456	12.309
2	7.420	7.198	12.175
3	10.430	7.138	12.107
4	13.440	7.169	12.077
5	16.450	7.230	12.062
6	19.460	7.300	12.055
7	22.470	7.371	12.050
8	25.480	7.445	12.044
9	28.490	7.526	12.033
10	31.500	7.603	12.012
11	34.510	7.644	11.985

****

4383. PRINT STORY STIFFNESS
STORY STIFFNES

****

STORY STIFFNESS UNIT - METE KN

DIAPHRAM	FL. LEVEL	LATERAL-X	LATERAL-Z	ROTATIONAL-Y
1	4.410	1.849E+06	1.535E+06	4.705E+07
2	7.420	1.243E+06	1.146E+06	4.691E+07
3	10.430	8.860E+05	8.894E+05	3.925E+07
4	13.440	7.110E+05	7.597E+05	3.577E+07
5	16.450	6.106E+05	6.798E+05	3.388E+07
6	19.460	5.445E+05	6.235E+05	3.267E+07
7	22.470	4.941E+05	5.775E+05	3.171E+07
8	25.480	4.485E+05	5.329E+05	3.071E+07
9	28.490	3.983E+05	4.787E+05	2.919E+07
10	31.500	3.386E+05	4.122E+05	2.573E+07
11	34.510	2.067E+05	2.427E+05	1.292E+07

****

4384. FINISH

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NAME OF PROJECT

GEOTECHNICAL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (STILT + 9 UPPER FLOORS) AT NEW NO. 66 & 68, OLD NO. 268, ROYAPETTAH HIGH ROAD, CHENNAI 600014.

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- 2808

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DATE	REVISON	DESCRIPTION		AUTHORISED SIGNATORY
24/06/2024	0.0	SUBMISSION OF INTERIM REPROT	SIGNATURE	
08/07/2024	1.0	SUBMISSION OF FINAL GEOTECHNICAL REPORT	REPORT NO.	GT-2808
			DESIGNATION	MANAGING DIRECTOR
			NAME	DR. C.V.PRASAD

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GEOMARINE

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		FIELD INVESTIGATION PHOTOS	

REPORT TEXT

CHAPTER-1.0

INTRODUCTION

1.0 PROJECT INFORMATION MATRIX:

NATURE OF PROJECT	: **PROPOSED RESIDENTIAL BUILDING**
STRUCTURE	: **STILT + 9 UPPER FLOORS**
PROJECT OWNER	: **M/s RAMANIYAM REALTORS LLP,**
PROJECT LOCATION	: **ROYAPET, CHENNAI**
JOB CODE	: **GT-2808**

1.1 SCOPE OF WORK:

1.1.1 FIELD WORK:

- Conducting one soil investigation bore holes of 150 mm diameter in Soil & Overburden.
- In case of rock formation NX Diameter with Core barrel shall be adopted to progress the drilling up the termination depth.
- Conducting Standard Penetration Test (SPT) within the borehole at:
  - Every 1.0m depth interval up to 6.0m.
  - From 6.0m to 12.0m, SPT is conducted at every 1.5m depth interval
  - Beyond 12.0m SPT is carried out at every 2.0m depth interval
  - Core drilling in rocks is carried out at an interval of 1.5m up to the termination depth.
- The depth of investigation is 21.0m below the existing ground level.
- Collection of disturbed soil samples at SPT location and undisturbed samples from the clayey strata with SPT-value greater than 2 to less than 15 if met within the investigation depth.
- Collection of water samples if groundwater table met within the investigation depth.

1.1.2 LABORATORY WORK:

- Natural Moisture Content
- Atterberg's limits
- Grain Size Analysis
- Consolidation test on undisturbed samples if applicable
- Chemical Analysis test on soil and water samples to give pH, Chlorides and Sulphates

1.2 STRUCTURE OF THE REPORT:

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

INVESTIGATION METHODOLOGY & TEST RESULTS

2.0 PREAMBLE:

One soil investigation borehole was 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.

The proposed investigation is planned to identify the sub surface stratification of the project site. In order to determine the engineering properties including shear strength and classification as per IS 1498, it is proposed to collect disturbed and undisturbed soil sample and in case of rock formation cores are obtained using appropriate method as per the specification.

2.1 METHODOLOGY OF FIELD WORK:

2.1.1 EQUIPMENT USED AND METHOD OF DRILLING:

All the boreholes were sunk by conventional rotary drilling rigs. For borehole Methodology followed for boring conformed to IS: 1892 -2000. 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 required depth to prevent collapse of sidewall. Boring was continued by normal boring process using 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 was became slow.

2.1.2 STANDARD PENETRATION TESTS:

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

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

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

Sand		Clay	
N SPT value	Relative Density	N SPT 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

2.1.3 COLLECTION OF SOIL SAMPLES:

2.1.3.1 DISTURBED SAMPLES:

The SPT-samples collected were used as disturbed soil samples. These samples were used for visual and physical identification and for conducting laboratory classification tests as per I.S.1498-1970.

2.1.3.2 UNDISTURBED SAMPLES:

From the soft to stiff clay layer, representative undisturbed samples were collected. These samples were used primarily to establish the compressibility parameters to estimate the settlements of shallow foundation system 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, sampling tube was properly greased. Immediately after taking on undisturbed sample in a tube, the adopter 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 labeled 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 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. All the samples were properly sealed, levelled and carefully transported to the laboratory for chemical analysis.

- 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

2.2 LABORATORY TESTING:

2.2.1 ON COARSE GRAINED SOIL:

On the representative samples, sieve analysis tests were conducted to arrive at grain size distribution. These tests were conducted as per I.S.2720 (part 4)-1985 and the results are presented in Tables-2.1. The graphical representation of grainsize distribution curve for the representative samples in each bore is presented in Fig. 2.2.

2.2.2 ON FINE GRAINED SOIL:

On the SPT sample index property tests were conducted to estimate consistency. These test results are presented in Tables-2.1.

2.2.3 CHEMICAL ANALYSIS TESTS:

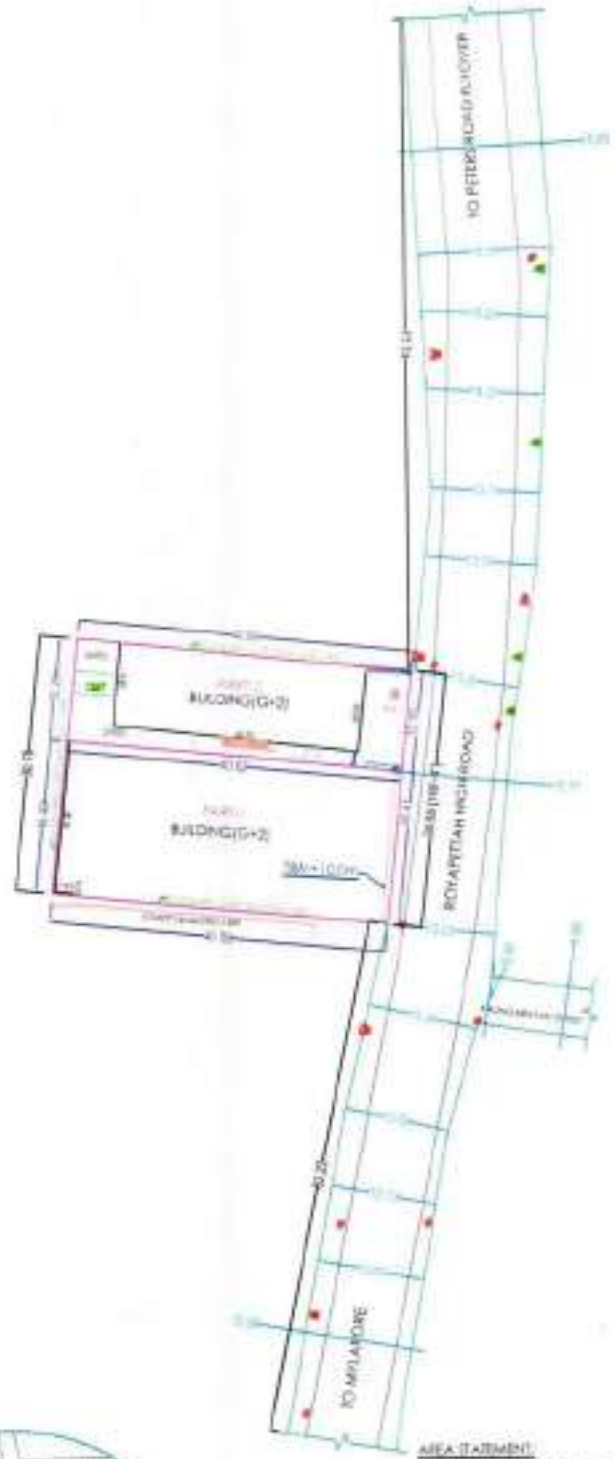
On representative soil samples chemical analysis tests were conducted to estimate pH, Chloride and Sulphates and these results are presented in Table - 2.3 to 2.5.

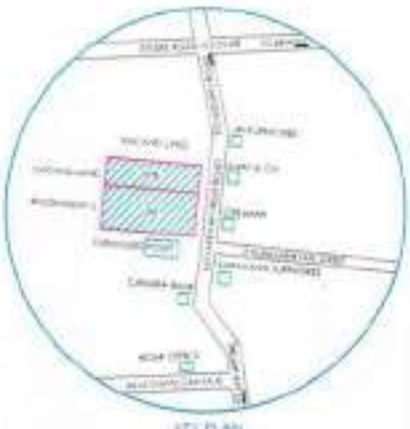
2.3 SUMMARY:

- 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 Figs.2.1.
- Laboratory test results is presented in Table 2.1
- Rock test results is presented in Table 2.2
- Chemical test results is presented in Table 2.3 to 2.5

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SITE PLAN





KEY PLAN
(NOT TO SCALE)

AREA STATEMENT:
SURVEYED AREA OF PART - 1 = 3098 SQ.FT. (OR) 0.374 GROUNDS
SURVEYED AREA OF PART 2 = 3305 SQ.FT. (OR) 0.210 GROUNDS
TOTAL SURVEYED AREA OF PART - 1 & 2 = 11403 SQ.FT. (OR) 1.584 GROUNDS

NOTE:
ALL DIMENSIONS ARE IN METRES, FEET & INCHES
78M H 10.0m ON THE BUILDING FLOOR LEVEL

LEGEND:
LP-LAMP POST
EP-ELECTRIC POST
TB-TELEPHONE BOX
MH-MAN HOLE
A-AREKA TREE
M-MANGO TREE
C-COCO TREE
SPOT LEVEL -

SURVEYED BY:
abide Landmark
SURVEYORS
[illegible]

CLIENT

SITE: NEW No.66 & 68, OLD No.268, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600014.

	NAME	DATE
SURVEYED	K.K.K.	20.01.2024
DRAWN	K.K.K.	22.01.2024
CHECKED		
APPROVED		

SCALE 1:400

SHEET A3

TITLE: PLAN SHOWING THE DETAILED BOUNDARY MAP WITH EXISTING FEATURES AND LEVELS

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SOIL PROFILES

GEOMARINE
THE SPIRIT OF ENGINEERING

SITE INVESTIGATION RECORD

BORE HOLE No.	BH-01		
SHEET	1	OF	3
DIA OF BORE HOLE	150mm	✓	
	NX		
BORE START DATE	13/06/2024		
BORE END DATE	15/06/2024		
TOTAL DRILL DAYS	3		

PROJECT NAME	PROPOSED CONSTRUCTION OF A RESIDENTIAL BUILDING						
LOCATION	Royapet, Chennai	MACHINE No	CR03	Free Fall Energy (%)	60		
STRUCTURE	Stilt + 9 Upper Floors	DRILLING METHOD	Rotary	CO-ORDINATES	N	-	
JOB CODE	GT-2808	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	Blows/cm 15-30	Blows/cm 30-45	SPT Value N_{SC}	SPT Value N_{60}	Sample Details: Depth	Type	RL (m)	Layer Data: Legend	No	Depth	Geotechnical Description
0	13/06/2024	15	20	SC	-	-												
		To																
		15	20															
		15	54	SC	-	-	3	4	6	-	10	0.50	SS	-0.5				Brown,Moist,Fine & Medium Grains Sands,Loose,**Clayey Silty SAND (SC)** Observed to Be Filled Up
		To										0.95						
1		15	54	SC	-	-	5	5	10	-	15	1.25	SS	-1.25		L1	1.3	
		16	10									1.70						Brown,Moist,Stiff,**Silty CLAY (CL) With Pieces of Brick Observed** Observed to be Filled Up
		To																
		16	10	SC	-	-	9	12	20	-	32	2.00	SS	-2.0		L2	2.0	
2		16	45									2.45						
		To																
		16	45	SC	-	-	18	18	19	-	37	3.00	SS	-3.0				
3		10	10									3.45						
		To																
		10	10	SC	-	-	16	21	23	-	44	4.00	SS	-4.0				
4		10	50									4.45						
		To																
		10	50	SC	-	-	8	12	16	-	28	5.00	SS	-5.0				Grey Brown,Brown,Moist,Poorly Graded,Fine & Medium Grains Sand, Medium Dense & Dense,**Silty SAND (SM), Poorly Graded SAND - Silty SAND (SP-SM) With Thin Layer of Clayey Silty SAND (SC) & SandySILT (ML) of Non- Plastic Formation**
5		11	15									5.45						
		To																
		11	15	SC	-	-	8	17	13	-	30	6.00	SS	-6.0				
6	14/06/2024	11	34									6.45						
		To																
		11	35	SC	-	-	15	17	11	-	28	7.50	SS	-7.5				
7												7.95						
		11	56															
		To																
8		11	57	SC	-	-												
		12	30															
		To																
		12	31	SC	-	-	14	25	22	-	47	9.00	SS	-9.0				
9												9.45						
10																		

CS - Core Sample	DS - Disturbed Sample	LOGGED	Sriram Prasath	PROJECT SITE DETAILS		REMARKS	
SS - Split Spoon Sample	SC - Soil Cutter	DATE	14/06/2024	GROUND LEVEL (m)	0.00		
UDS- Undisturbed Sample	TCB - Tungsten Carbide Bit	CHECKED	A. Vinoth	WATER TABLE (m)	5.50		
WS - Wash Sample	DB - Diamond Bit	DATE	21/06/2024	CASING DEPTH (m)	0.00		

GEOMARINE
THE SPIRIT OF ENGINEERING

SITE INVESTIGATION RECORD

BORE HOLE No.	BH-01
SHEET	2 OF 3
DIA OF BORE HOLE	150mm ✓ / NX ✓
BORE START DATE	13/06/2024
BORE END DATE	15/06/2024
TOTAL DRILL DAYS	3

PROJ. NAME	PROPOSED CONSTRUCTION OF A RESIDENTIAL BUILDING						
LOCATION	Royapet, Chennai	MACHINE No.	CR03	Free Fall Energy (%)	60		
STRUCTURE	Stilt + 9 Upper Floors	DRILLING METHOD	Rotary	CO-ORDINATES	N	-	
JOB CODE	GT-2938	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: Blowscm 0-15	SPT Details: Blowscm 15-30	SPT Details: Blowscm 30-45	SPT Value: N_{SS}	SPT Value: N_{60}	Sample Details: Depth	Sample Details: Type	Sample Details: RL (m)	Layer Data: Legend	Layer Data: No	Layer Data: Depth	Geotechnical Description
11	14/06/2024	13	15	SC	-	-	13	18	20	-	36	10.50	SS	-10.5				
		To										10.95						
		13	16															
12							16	20	22	-	42	12.00	SS	-12.0				Grey Brown,Brown,Moist,Poorly Graded,Fine & Medium Grains Sand, Dense,**Poorly Graded SAND - Silty SAND (SP-SM)**
												12.45						
13		14	56	SC	-	-												
		To																
		14	57															
14							6	6	11	-	17	14.00	SS	-14.0		L3	14.0	
												14.45						
15		15	20	SC	-	-												
		To																
		15	21															
16							5	8	14	-	22	16.00	SS	-16.0				Grey to Black,Moist,Poorly Graded,Fine & Medium Grains Sand,Medium Dense,**Clayey Silty SAND (SC)**
												16.45						
17		16	23	SC	-	-												
		To																
		16	25															
18							SPT Hammer Rebounded			-	>100	18.00	WS	-18.0		L4	18.0	
	15/06/2024	09	45	DB	20	09												
		To																
19		11	30				-	-	-	-	-	19.00	CS	-19.0				Brown,Grey Brown,Yellow Shades, Medium & Coarse Grain Structure, Highly Fractured & Weathered, **Highly Weathered Rock - Grade W4 Formation** Fractured Hypersthene Granitic Rock Formation
		11	54															
		To		DB	18	0												
20		12	57				-	-	-	-	-	20.00	CS	-20.0		L5	20.0	

CS - Core Sample	DS - Disturbed Sample	LOGGED	Sriram Prasath	PROJECT SITE DETAILS	REMARKS
SS - Split Spoon Sample	SC - Soil Cutter	DATE	15/06/2024	GROUND LEVEL (m) 0.00	(*F)-Sample Failed
UDS- Undisturbed Sample	TCB - Tungsten Carbide Bit	CHECKED	A. Vinoth	WATER TABLE (m) 5.50	
WS - Wash Sample	DB - Diamond Bit	DATE	21/06/2024	CASING DEPTH (m) 0.00	

GEOMARINE
THE SPIRIT OF ENGINEERING

SITE INVESTIGATION RECORD

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

PROJECT NAME	PROPOSED CONSTRUCTION OF A RESIDENTIAL BUILDING					BORE START DATE	13/06/2024
LOCATION	Royapet, Chennai	MACHINE No.	CR03	Free Fall Energy (%)	60	BORE END DATE	15/06/2024
STRUCTURE	Stilt + 9 Upper Floors	DRILLING METHOD	Rotary	CO-ORDINATES	N -	TOTAL DRILL DAYS	3
JOB CODE	GT-2988	FLUSHING MEDIUM	Bentonite		E -		

Depth below E.G.L (m)	Drilling progress per metre: Date	Time: Hr.	Time: Min.	Type of Drill Rig (DC / 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 Value N_{30}	SPT Value N_{60}	Sample Details: Depth	Sample Details: Type	Sample Details: RL (m)	Layer Data: Legend	Layer Data: No	Layer Data: Depth	Geotechnical Description
21	15/06/2024	02 To 04	15 09	DB	66	57	-	-	-	-	*	21.00 ↓	CS	-21.0	+ + + + + + + + + + + +	L6	21.0	Grey,Pink Grey,Medium & Coarse Grain Structure,Fractured @ Parts, Discoloured Partly,**Slightly Weathered Rock - Grade W2 Formation** Fractured Hypersthene Granitic Rock
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		

CS - Core Sample	DS - Disturbed Sample	LOGGED	Sriram Prasath	PROJECT SITE DETAILS	REMARKS
SS - Split Spoon Sample	SC - Soil Cutter	DATE	15/06/2024	GROUND LEVEL (m) 0.00	
UDS - Undisturbed Sample	TCB - Tungsten Carbide Bit	CHECKED	A. Vinoth	WATER TABLE (m) 5.50	
WS - Wash Sample	DB - Diamond Bit	DATE	21/06/2024	CASING DEPTH (m) 6.00	

Borehole terminated at 21 m depth below E.G.L

FIG.2.1 Sub Soil Profile at BH-01 Location

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GRAIN SIZE DISTRIBUTION CURVE

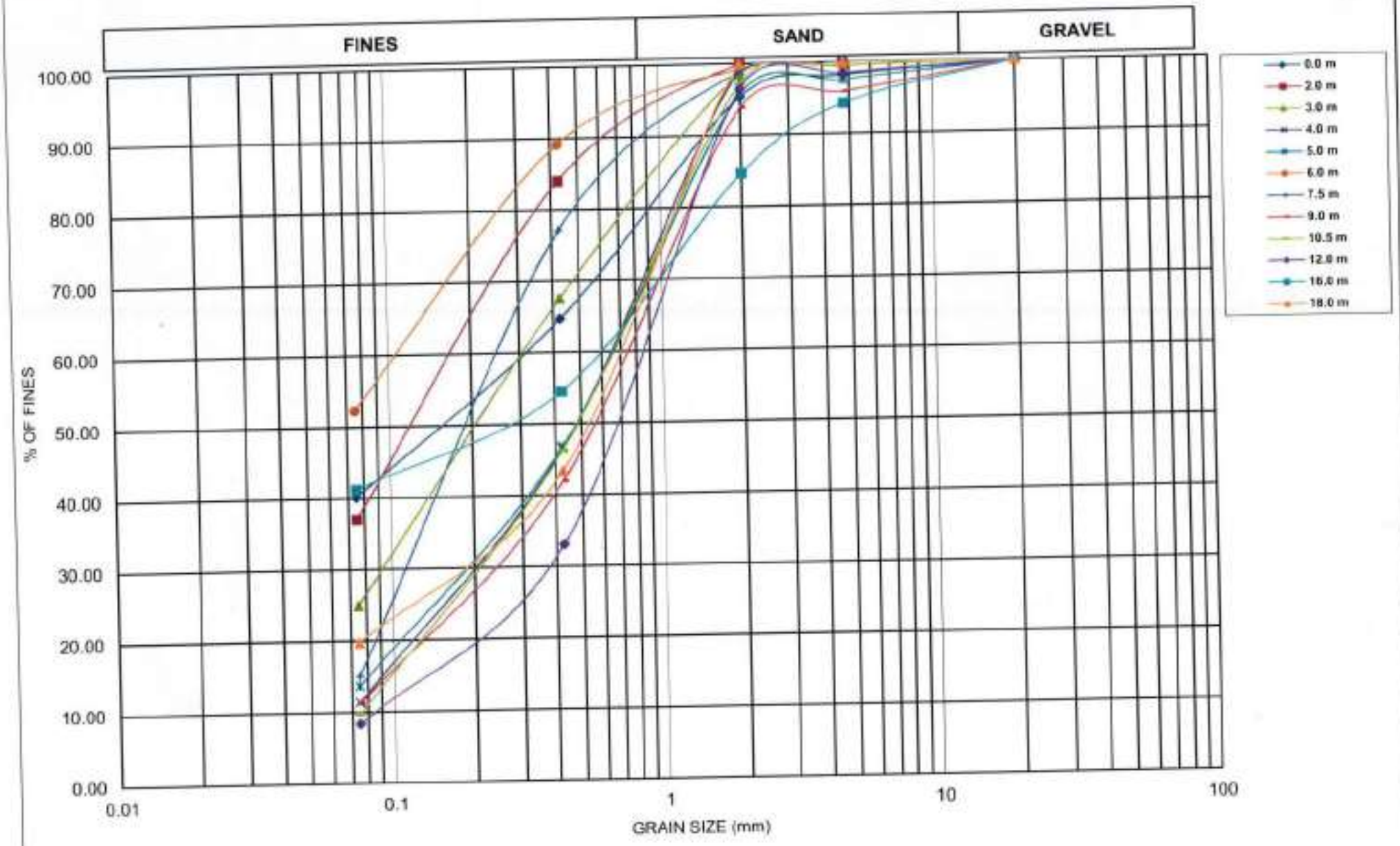


Fig. 2.2 GRAIN SIZE DISTRIBUTION CURVE - BH-01

LABORATORY TEST RESULTS

DISCIPLINE/GROUP :MECHANICAL / SOIL AND ROCK
SAMPLE DESCRIPTION :CLAY AND SOIL
SAMPLE CONDITION :SATISFACTORY
TEST METHOD :BUREAU OF INDIAN STANDARDS
ULR NUMBER :TC114102400000693F
NAME AND ADDRESS OF THE CUSTOMER :Ms RAMANIYAM REALTORS LLP, 14/ 67, 3RD MAIN ROAD, GANDHI NAGAR, CHENNAI

SAMPLE IDENTIFICATION NUMBER: GMTL/SS/890/0624/BH-01(01-16)
TEST REPORT NUMBER: GMC 887
SAMPLE RECEIPT DATE: 21/06/2024
PERIOD OF TESTING: 28/06/2024 to 04/07/2024
SAMPLE SOURCE: CUSTOMER SUPPLIED
REPORT DATE: 08/07/2024
NO. OF PAGES: 1

TABLE 2.1 TEST RESULTS FOR SOIL SAMPLES FROM BH-01

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)						DIRECT SHEAR TEST IS 2720 PART 13:1986 (RA 2021)		Uniformity Co-Efficient $C_u=D_{60}/D_{10}$	Co-Efficient of Curvature $C_c=D_{30}^2/(D_{10}xD_{60})$
									Gravel (%) (4.75mm)	Sand (%)			Silt (%)	Clay (%)			Cohesion (kg/cm^2)	ϕ (Degrees)		
										Coarse (2.0 mm)	Medium (0.425 mm)	Fine (0.075mm)								
1.0	0.5	14	28	15	13	-	-7	-	1.7	2.8	30.7	24.6	40.2				-	-	-	-
2.0	1.3	16	29	14	15	-	0	-	Fine Sand Mixture								-	-	-	-
3.0	2.0	20	39	18	20	18.9	-	-	0.0	0.0	16.9	47.0	37.1				-	-	-	-
4.0	3.0	16	-	-	-	-	-	-	0.0	1.5	31.0	42.6	25.0				-	-	-	-
5.0	4.0	16	-	-	-	-	-	-	0.0	0.0	52.6	35.1	11.5				-	-	-	-
6.0	5.0	18	-	-	-	-	-	-	2.4	1.8	48.9	33.2	13.7				-	-	-	-
7.0	6.0	20	Non-Plastic				-15	-	0.4	8.3	10.1	36.8	52.4				-	-	-	-
8.0	7.5	20	-	-	-	-	-	-	0.0	1.0	21.8	62.1	15.1				-	-	-	-
9.0	9.0	16	-	-	-	-	-	-	4.0	2.0	51.9	30.7	11.3				-	-	-	-
10.0	10.5	26	-	-	-	-	-	-	0.5	2.2	51.0	35.5	9.8				-	-	-	-
11.0	12.0	17	-	-	-	-	-	-	1.5	1.9	63.4	24.7	8.4				-	-	-	-
12.0	14.0	33	41	20	21	-	-7	-	Low Quantity Sample For Wet Sieve								-	-	-	-
13.0	16.0	23	62	23	39	14.5	20	-	5.7	9.6	30.1	13.3	41.3				-	-	-	-
14.0	18.0	11	-	-	-	-	-	-	0.0	0.0	56.5	23.7	19.8				-	-	-	-

** END OF REPORT **

Terms and Conditions
(1) The test results furnished corresponds to the sample received
(2) The tested sample will not be retained for more than 15 days from the date of issue of test report except in the case as required by the applicable regulations.
(3) Any correction in this reports invalidates the reports
(4) BH = Bore Hole

REVIEWED BY

(TECHNICAL MANAGER)

AUTHORISED BY

(QUALITY MANAGER)

ROCK TEST RESULTS

Table 2.2 Result of Rock Test

ULR NO.	: TC114102400000394F	TEST REPORT NUMBER	:	GMC 890	
DISCIPLINE/GROUP	: MECHANICAL/SOIL AND ROCK	SAMPLE RECEIPT DATE	:	21/06/2024	
SAMPLE DESCRIPTION	: ROCK	PERIOD OF TESTING	:	08/07/2024	
SAMPLE CONDITION	: SATISFACTORY	NO. OF PAGES	:	ONE	
TEST METHOD	: BUREAU OF INDIAN STANDARDS	DATE OF ISSUE OF REPORT	:	08/07/2024	
NAME AND ADDRESS OF THE CUSTOMER	: M/s RAMANIYAM REALTORS LLP, 14/ 67, 3RD MAIN ROAD, GANDHI NAGAR, CHENNAI	SAMPLE SOURCE	:	CUSTOMER SUPPLIED	

S.No	SAMPLE IDENTIFICATION NUMBER	DEPTH (m)	UNCONFINED COMPRESSIVE STRENGTH,mPa AS PER IS 9143 - 1979, RA-2021	POINT LOAD STRENGTH INDEX, mPa AS PER IS 8764 - 1998, RA-2019	WATER CONTENT, % AS PER IS 13030 - 1991, RA-2021	SLAKE DURABILITY, % AS PER IS 10050 - 1981, RA-2021	TENSILE STRENGTH, mPa AS PER IS 10082 - 1981, RA-2021
1	GMTL/CS/890/0624/BH-01/01	18.00 to 19.00	-	6.2	0.02	-	12.7
2	GMTL/CS/890/0624/BH-01/02	19.00 to 20.00	-	5.3	0.04	-	14.1
3	GMTL/CS/890/0624/BH-01/03	20.00 to 21.00	54.0	5.5	0.03	-	12.2

** END OF REPORT**

REVIEWED BY

(TECHNICAL MANAGER)

AUTHORISED BY

(QUALITY MANAGER)

Terms and Conditions

(1) The test results furnished corresponds to the sample received

(2) 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

(3) Any correction in this report invalidates the reports

CHEMICAL LABORATORY TEST RESULTS

GEOMARINE
Phone No.: 044-24480305

LABORATORY TEST REPORT
GEOMARINE CONSULTANTS PVT LTD- TESTING LABORATORY
NO.11 2nd MAIN ROAD, KANNAPA NAGAR EXTN,
KOTTIVAKKAM, CHENNAI

TC-11410

TABLE -2.3 RESULT OF CHEMICAL TEST ON WATER

URL NO	: TC114102400000595F		
DISCIPLINE/GROUP	: CHEMICAL - WATER	TEST REPORT NUMBER	: GMC / 890
SAMPLE DESCRIPTION	: GROUND WATER	SAMPLE RECEIPT DATE	: 21/06/2024
SAMPLE CONDITION	: SATISFACTORY	PERIOD OF TESTING	: 28/06/2024
TEST METHOD	: AS PER BIS	NO. OF PAGES	: 1 (1 Of 1)
SAMPLE SOURCE	: CUSTOMER SUPPLIED	DATE OF ISSUE OF REPORT	: 08/07/2024
NAME AND ADDRESS OF THE CUSTOMER	: M/s RAMANIYAM REALTORS LLP, 14/ 67, 3RD MAIN ROAD, GANDHI NAGAR, CHENNAI		

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/890/0624/BH-01/01	5.5	7.35	113.0	203.7

** END OF REPORT**

REVIEWED BY

(TECHNICAL MANAGER)

AUTHORISED BY

(QUALITY MANAGER)

Note:

(1) The test results furnished corresponds to the sample received
(2) The tested sample will not be retained for more than 30 days from the date of issue of test report except in the case as required by the applicable regulations
(3) Any correction in this reports invalidates the reports

GEOMARINE
Phone No.: 044-24480305

LABORATORY TEST REPORT
GEOMARINE CONSULTANTS PVT LTD- TESTING LABORATORY
NO.11 2nd MAIN ROAD, KANNAPA NAGAR EXTN,
KOTTIVAKKAM, CHENNAI

TC-11410

TABLE - 2.4 RESULT OF CHEMICAL TEST ON SOIL

URL NO	: TC1141024000000596F		
DISCIPLINE/GROUP	: CHEMICAL-SOIL AND ROCK	TEST REPORT NUMBER	: GMC / 890
SAMPLE DESCRIPTION	: SOIL	SAMPLE RECEIPT DATE	: 21/06/2024
SAMPLE CONDITION	: SATISFACTORY	PERIOD OF TESTING	: 28/06/2024
TEST METHOD	: AS PER BIS	NO. OF PAGES	: 1 (1 Of 1)
SAMPLE SOURCE	: CUSTOMER SUPPLIED	DATE OF ISSUE OF REPORT	: 08/07/2024
NAME AND ADDRESS OF THE CUSTOMER	: M/s RAMANIYAM REALTORS LLP, 14/ 67, 3RD MAIN ROAD, GANDHI NAGAR, CHENNAI		

S.NO	SAMPLE IDENTIFICATION NUMBER	SOIL (2:1)	
		DEPTH OF SAMLPLE (m)	pH AS PER IS 2720 (P-XXVI) - 1987
1.0	GMTL/SS/890/0624/BH-01/04	3.0	7.5

** END OF REPORT**

REVIEWED BY

(TECHNICAL MANAGER)

AUTHORISED BY

(QUALITY MANAGER)

Note:

(1) The test results furnished corresponds to the sample received.
(2) The tested sample will not be retained for more than 30 days from the date of issue of test report except in the case as required by the applicable regulations.
(3) Any correction in this reports invalidates the reports.

GEOMARINE
Phone No.: 044-24460305

LABORATORY TEST REPORT
GEOMARINE CONSULTANTS PVT LTD- TESTING LABORATORY
NO.11 2nd MAIN ROAD, KANNAPA NAGAR EXTN,
KOTTIVAKKAM, CHENNAI

TABLE -2.5 RESULT OF CHEMICAL TEST ON SOIL

DISCIPLINE/GROUP	:CHEMICAL-SOIL AND ROCK	TEST REPORT NUMBER	: GMC / 890
SAMPLE DESCRIPTION	:SOIL	SAMPLE RECEIPT DATE	: 21/06/2024
SAMPLE CONDITION	:SATISFACTORY	PERIOD OF TESTING	: 28/06/2024
TEST METHOD	:AS PER BIS	NO. OF PAGES	: 1 (1 Of 1)
SAMPLE SOURCE	:CUSTOMER SUPPLIED	DATE OF ISSUE OF REPORT	: 08/07/2024
NAME AND ADDRESS OF THE CUSTOMER	:M/s RAMANIYAM REALTORS LLP, 14/ 67, 3RD MAIN ROAD, GANDHI NAGAR, CHENNAI		

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/890/0624/BH-01/04	3	30.9	13.0

** END OF REPORT**

REVIEWED BY

(TECHNICAL MANAGER)

AUTHORISED BY

(QUALITY MANAGER)

Note:

(1) The test results furnished corresponds to the sample received
(2) The tested sample will not be retained for more than 30 days from the date of issue of test report except in the case as required by the applicable regulations
(3) Any correction in this reports invalidates the reports

CHAPTER-3.0

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)

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:

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	1.30	1.30	Clayey Silty Sand	Brown	10	Loose	-	15	-	30
2.0	1.30	2.00	0.70	Silty Clay	Brown	15	Medium Dense	-	17.5	-	32
3.0	2.00	14.00	12.00	Silty Sand	Grey Brown	38	Dense	-	19.5	-	38
4.0	14.00	18.00	4.00	Clayey Silty Sand	Grey to Black	20	Medium Dense	-	18	-	33
5.0	18.00	20.00	2.00	Highly Weathered Rock	Brown	CRR - 18 to 20%; RQD - 0 to 9%					
6.0	20.00	21.00	1.00	Slightly Weathered Rock	Grey	CRR - 86% ; RQD - 57%					

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FOUNDATION SYSTEM

CHAPTER-4.0

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 + 9 Upper Floors and is meant for residential occupancy. For this kind of structure, the column loads could vary between 3,000 kN to 4,500 kN.

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 SOIL STRATIFICATION:

The sub surface stratification for the present investigation area is as follows:

0.0m to 2.0m	Clayey Sand & Sandy Clay (Filled Up)
2.0m to 14.0m	Medium Dense to Dense, Silty Sand With lenses of Clayey Sand & Sandy Silt
14.0m to 18.0m	Medium Dense, Clayey Silty Sand
18.0m to 20.0m	Highly Weathered Rock – Grade W4 Formation
20.0m to 21.0m	Slightly Weathered Rock – Grade W2 Formation

4.3 FOUNDATION SYSTEM:

4.3.1 BEARING STRATUM:

For the kind of proposed construction, Dense, Sand formation exists beyond 1.8m satisfies the requirement of bearing strata from both shear and compressibility response to super structural load.

4.3.2 FOUNDATION SYSTEM:

For the kind of proposed construction and sub soil formation, it is possible to adopt RCC Raft foundation system. Place the raft at a depth of 2.0m below the existing ground level over a well compacted 100mm thick M10 grade levelling course bed or PCC. In case of isolated column footing, locate the footing at a depth of 1.55m below the existing ground level over a well compacted layer of sand gravel (1:1) mix or granular sub base of 450mm thickness. Thus, the total depth of excavation shall be 2.0m below the existing ground level.

Table 5.1 presents the allowable net safe bearing pressure for the design of raft and isolated footing. In the project site, the sub soil being coarse grain formation the settlement will be of immediate elastic in nature and no consolidation or creep settlement is applicable.

Typical computation is presented in Annexure-I.

NOTE: In case the filled up/existing foundation extends beyond 2.0m the same shall be replaced with sand-gravel (1:1) mix or granular sub base.

TABLE 5.1 RECOMMENDED ALLOWABLE NET SAFE BEARING PRESSURE

REFERENCE BOREHOLE	SHAPE OF FOUNDATION	DEPTH OF FOUNDATION EXCAVATIONBELOW EGL (m)	THICKNESS OF SOIL REPLACEMENT (m)	DEPTH OF FOUNDATION BELOW EGL (m)	WIDTH OF FOUNDATION (m)	RECOMMENDED NET SAFE BEARING CAPACITY (kPa)	SETTLEMENT (mm)
BH-01	SQUARE	2.0	0.45	1.55	1.0	250	2.19
					2.0	300	5.26
					3.0	300	7.89
					4.0	300	10.52
					5.0	300	13.15
	Raft	2.00	0.00	2.00	>10	250	21.92

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RECOMMENDATIONS

CHAPTER-5.0

RECOMMENDATIONS

5.1 RECOMMENDATION FOR SHALLOW FOUNDAITON:

- For the proposed configuration of the structure and the sub soil condition shallow foundation can be adopted.
- Adopt raft or isolated column footing at a depth of 2.0m below the existing ground level.
- In case of, isolated column footing, locate the footing over a well compacted layer of granular sub base or sand gravel (1:1) mix of 450mm thickness.
- The layer shall be compacted in a non-compacted layer thickness of 225mm using plate compactor or hand rammer.
- All columns shall be connected with grade beams in either direction at plinth level.
- In case of raft, locate the raft over a compacted 100mm thick M10 grade levelling course bed or PCC.
- Table 5.1 presents the allowable net safe bearing pressure for the design of footing and raft.
- There is a possibility of slush formation due to removal of overburden below the raft. In such case, replace the same with sand gravel (1:1) mix or granular sub base before laying the PCC.

5.2 GENERAL RECOMMENDATION:

- The present project location falls in seismic zone-III as per IS 1893-P-1.
- The chemical analysis results of soil and water is presented in Table 2.3 to 2.5. The structural consultant shall consider the results as guidelines for arriving cement and steel for the proposed project.

AUTHORISED SIGNATORY

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on behalf of CoWA NaB Board, the Geotechnical investigation report is Generally reviewed.

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

ANNEXURE-I

GEO MARINE

TYPICAL BEARING CAPACITY COMPUTATIONS FOR SHALLOW FOUNDATION

1.0 COMPUTATION OF BEARING CAPACITY AS PER IS:6403

1.1 Geometrical Data :

Shape of the Foundation: Raft
Depth of foundation below Existing Ground Level "D_f"(m): 2.00
Thicknes of Soil Replacement below Footing (m): 0.0
Breadth of Footing "B" (m): 10.0
Length of Footing "L" (m): 10.0
L/B 1.00
Inclination of Vertical Load with the Vertical (a) 0.00

1.2 Soil Data :

Type of Effective Bearing Strata : Sand
Type of Shear Failure: General
Average SPT "N" of the Bearing Strata: 32
Angle of Internal Resistance Restricted to 36°: 30
Angle of Shearing Resistance 36

1.3 Design Parameters:

Bulk Density of Soil above the foundation depth (γ_{bulk}) 18 kN/m^3
Water Table Correction Factor (w') 0.5
Effective overburden pressure at foundation level (q) 16 kN/m^2

Bearing Capacity Factors:

N_c = N/A
N_q = 39.48
N_g = 60.31

Shape Factors:

S_c = -
S_q = 1.20
S_g = 0.60

Depth Factors :

D_c = -
D_q = 1.00
D_g = 1.00

Inclination Factor:

I_c = 1.00
I_q = 1.00
I_g = 1.00

1.4 Ultimate Bearing Capacity (Qu) :

Qu=q'(Nq-1)*Sq*Dq*Iq + 0.5*B*g*Ng*Sg*Dg*Ig*w' 2374.58 kPa
(g should be read as gama)

1.5 Safe Bearing Capacity (Qsafe) :

Factor of Safety (F.S.) : 2.50
Qsafe : 949.83 kPa
Say Q_{safe} 250 kPa

2.0 Computation of Settlement for Maximum Pressure and Size of Footing : (as per IS:8009-Part-I-Ref. Eq.11) (Elastic Analysis)

The immediate elastic settlement (S_i)= $qB(1-\mu^2)*I/E_s$

q= bearing pressure 250.00 kPa
Poission's Ratio (μ) 0.20

Modulus of Elasticity (E_s)(Ref. Joseph E Bowels,1996,page316,Table5.6, Japanese design standards)

Modulus of Elasticity (E_s) 83200
Width of the Raft 10.00
Influence factor 0.95
Rigidity Factor 0.80
Depth Factor: 1.00
Elastic Settlement (DH,) 21.92 mm
<75 mm

GEO MARINE

TYPICAL BEARING CAPACITY COMPUTATIONS FOR SHALLOW FOUNDATION

1.0 COMPUTATION OF BEARING CAPACITY AS PER IS:6403

1.1 Geometrical Data :

Shape of the Foundation: Square
Depth of foundation below Existing Ground Level "D_f"(m): 1.55
Thicknas of Soil Replacement below Footing (m): 0.45
Depth of Excavation below Existing Ground Level (m): 2.0
Breadth of Footing "B" (m): 1.0
Length of Footing "L" (m): 1.0
L/B 1.00
Inclination of Vertical Load with the Vertical (e) 0.00

1.2 Soil Data :

Type of Effective Bearing Strata : Sand
Type of Shear Failure: General
Average SPT "N" of the Bearing Strata: 32
Angle of Internal Resistance Restricted to 36°: 30
Angle of Shearing Resistance 36

1.3 Design Parameters:

Bulk Density of Soil above the foundation depth (γ_{bulk}) 18 kN/m^3
Water Table Correction Factor (w') 0.5
Effective overburden pressure at foundation level (q) 12 kN/m^2

Bearing Capacity Factors:
N_c = N/A
N_q = 39.48
N_g = 60.31

Shape Factors:
S_c = -
S_q = 1.20
S_g = 0.80

Depth Factors :
D_c = -
D_q = 1.02
D_g = 1.02

Inclination Factor:
I_c = 1.00
I_q = 1.00
I_g = 1.00

1.4 Ultimate Bearing Capacity (Qu) :

Qu=q'(Nq-1)'Sq'Dq'Iq + 0.5'B'g'Ng'Sg'Dg'Ig'w' 809.07 kPa
(g should be read as gama)

1.5 Safe Bearing Capacity (Qsafe) :

Factor of Safety (F.S.) : 2.50
Qsafe : 323.63 kPa
Say Q_{safe} 250 kPa

2.0 Computation of Settlement for Maximum Pressure and Size of Footing : (as per IS:8009-Part-I-Ref. Eq.11) (Elastic Analysis)

The immediate elastic settlement (S_i)= $qB(1-\mu^2)*I/E_s$
q= bearing pressure 250.00 kPa
Poission's Ratio (μ) 0.20
Modulus of Elasticity (E_s)(Ref. Joseph E Bowels,1996,page316,Table5.6, Japanese design standards)
Modulus of Elasticity (E_s) 83200
Maxiumum Width of Footing: 1.00
Influence factor: 0.95
Rigidity Factor: 0.80
Depth Factor: 1.00
Elastic Settlement (DH_i) 2.19 mm
<50 mm

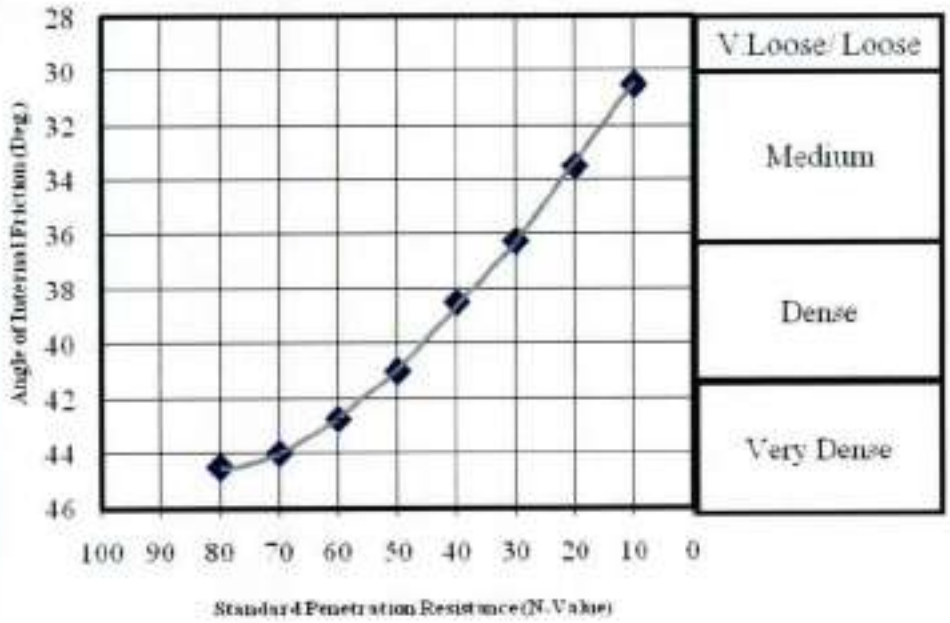


FIG. A1 Relation Ship between Angle of Internal Friction & N-value (Reproduced from IS:6403-1981)

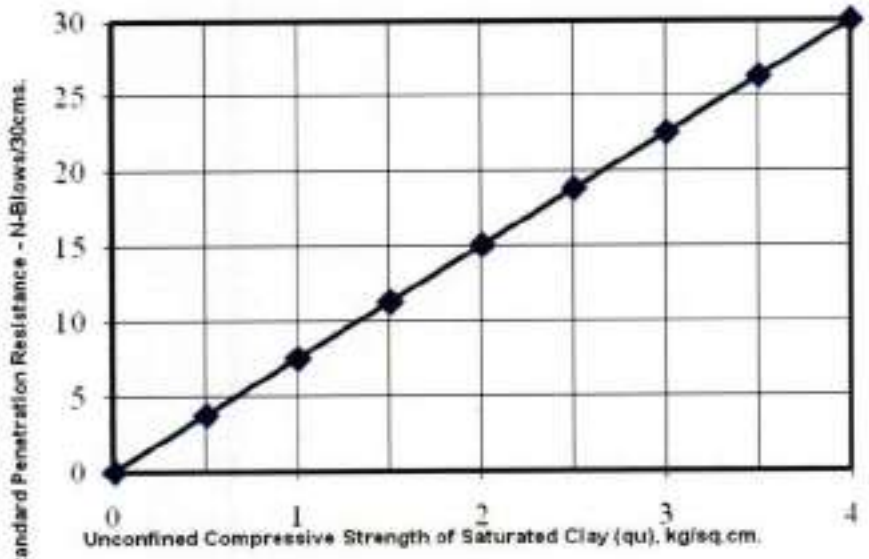


FIG. A2 : Relationship between UCC & SPT-Value (N) of Saturated Clay (AfterTerzhagi & Peck, 1948)

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ANNEXURE-II

GEOMARINE
THE SPIRIT OF ENGINEERING

SITE INVESTIGATION RECORD

BORE HOLE No.	01
PAGE No.	01
DIA OF BORE HOLE	150mm / 100mm
BORE START DATE	13/06/2024
BORE END DATE	15/06/2024
TOTAL DRILLING DAYS	03

PROJECT NAME: RAMANIYAM
LOCATION: DONAPETHAM | MACHINE No.: CR-02 | CHAINAGE (m): | CO-ORDINATES: N, E
STRUCTURE: | DRILLING METHOD: Rotary
JOB CODE: | FLUSHING MEDIUM: Bentonite

Depth below G.L. (m)	Drilling progress per metre: Date	Time: Hr.	Time: Min.	Type of bore as DC / 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: No.	Sample Details: Type	Layer Data: Depth (m)	Geotechnical Description
0	13/06/2024	03	20	SC			3	6	6	10	0.00	1	SS		Loose, brownish, Sand, Silt.
1		03	54	SC			5	5	10	15	1.25	2	SS		Medium dense, brownish Slightly blackish, Sand, Silt.
2		04	10	SC			9	12	20	32	2	3	SS		Dense, brownish Sand with Silt.
3		04	45	SC			16	18	19	37	3	4	SS		Dense, greyish brownish silty Sand.
4	14/06/2024	10	10	SC			16	21	23	44	4	5	SS		Dense, greyish, brownish Silty Sand.
5		10	00	SC			8	12	16	28	5	6	SS		Medium dense, greyish brownish, Sand with Silt
6		11	15	SC			8	17	13	30	6	7	SS		Medium dense, dark greyish, brownish, Sand with Silt.
7		11	34	SC			15	17	11	28	7.5	8	SS		Medium dense, Pale brownish, Sand with Silt.
8		11	56	SC			14	25	22	47	9	9	SS		Dense, brownish, Sand with Silt
9															

CS - Core Sample
SS - Split Spoon Sample
UDS-Undisturbed Sample
WS - Wash Sample

DS - Disturbed Sample
SC - Soil Cutter
TCB - Tungsten Carbide Bit
DB - Diamond Bit

SUPERVISOR NAME: Saravanapandian
SIGNATURE:
DATE: 15/06/2024
CLIENT IN-CHARGE:

PROJECT SITE DETAILS

GROUND LEVEL (m)	
WATER TABLE (m)	
CASING DEPTH (m)	

GEOMARINE — SPIRIT OF ENGINEERING

SITE INVESTIGATION RECORD

BORE HOLE No.	01
PAGE No.	02
DIA OF BORE HOLE	150mm — 1 / 100mm
BORE START DATE	13/06/2024
BORE END DATE	15/06/2024
TOTAL DRILLING DAYS	03

PROJECT NAME: PAMANIYAM

LOCATION: REVADITTAH | MACHINE No.: CR - 08 | CHAINAGE (m): | CO-ORDINATES: N, E

STRUCTURE: | DRILLING METHOD: Rotary

JOB CODE: | FLUSHING MEDIUM: Bentonite

Depth below E.G.L. (m)	Drilling progress per metre: Date	Time: Hr.	Min.	Type of Drill Bit (SC / TCB / DB)	Core Details: Total Core Recovery %	R.Q.D. %	SPT Details: Blows/cm. 0-15	15-30	30-45	SPT 'N' Value	Sample Details: Depth	No.	Type	Layer Data: Depth (m)	Geotechnical Description
0	14/06/2024	12	30	SC			13	16	20	36	10.00	10	SS		Dense, dark greyish, brownish, Sand with Silt
1		12	31												
2		01	15	SC			15	20	22	42	12	11	SC		Dense, brownish, dark greyish, Sand, Silt, Shells.
3		01	16												
4		02	56	SC			6	6	11	17	14	12	SS		Medium dense, blackish clayey Sand with Shells & Silt.
5		02	57												
6		03	20	SC			5	8	14	22	16	13	SS		Medium dense, blackish, Pale greyish, Clayey Sand with Silt.
7		03	21												
8		04	55	SC			14 HAMMER			200	18	14	SS		Sample - Nil —
		06	45				REB								
9	15/06/2024	9	45	DB	20%	09%					19	15	CS		Very hard, Pale yellowish, Slightly brownish greyish, Hard Rock (Patched rock)
10		11	30												

CS - Core Sample	DS - Disturbed Sample	SUPERVISOR NAME	Biraou Basathes
SS - Split Spoon Sample	SC - Soil Cutter	SIGNATURE	
UDS - Undisturbed Sample	TCB - Tungsten Carbide Bit	DATE	15/06/2024
WS - Wash Sample	DB - Diamond Bit	CLIENT IN-CHARGE	

PROJECT SITE DETAILS	
GROUND LEVEL (m)	
WATER TABLE (m)	
CASING DEPTH (m)	

GEOMARINE
SPIRIT OF ENGINEERING

SITE INVESTIGATION RECORD

BORE HOLE No.	01
PAGE No.	01
DIA OF BORE HOLE	150mm / 100mm
BORE START DATE	13/06/2024
BORE END DATE	15/06/2024
TOTAL DRILLING DAYS	03

PROJECT NAME	RAMANATHAPURAM				
LOCATION	POONDI	MACHINE No.	CS 02	CHAINAGE (m)	
STRUCTURE		DRILLING METHOD	Rotary	CO-ORDINATES	N
JOB CODE		FLUSHING MEDIUM	Bentonite		E

Depth below G.L. (m)	Drilling progress per metre: Date	Time: Hr.	Time: Min	Type of Drill Bit (SS / 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: No.	Sample Details: Type	Layer Data: Depth (m)	Geotechnical Description
1	15/06/2024	11	54	DB	18%	01%					1.00	16	CS		Very hard, Pale yellow brownish mix pale Grayish, Hard rock (Fractured Rock Mass)
2		12	57												
		02	15	DB	36%	51%					2.10	17	CS		Very hard, pale whitish brownish mix pale grayish hard rock Slightly fractured
		04	09												
3															
4															
5															Boring to be continued upto 21.00m
6															
7															
8															

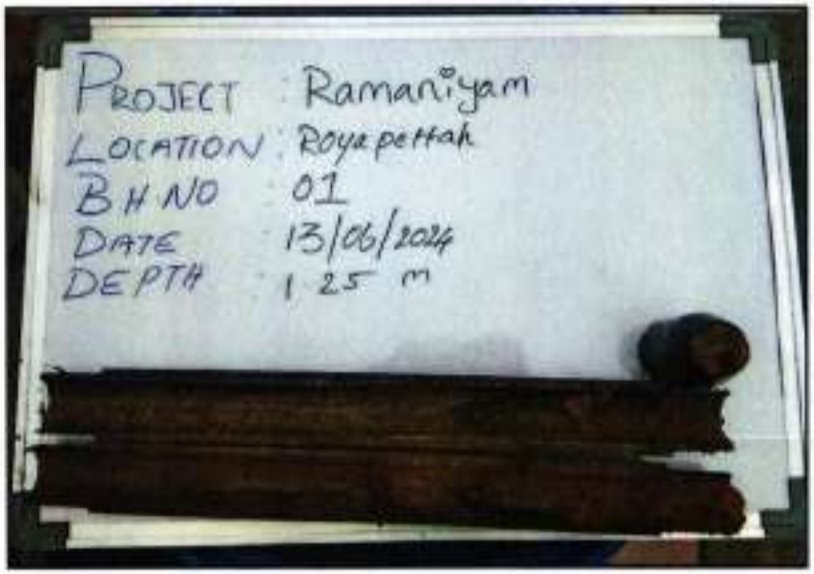
CS - Core Sample	DS - Disturbed Sample	SUPERVISOR NAME	Bairam Prasad Ho-5
SS - Split Spoon Sample	SC - Soil Cutter	SIGNATURE	
UDS-Undisturbed Sample	TCB - Tungsten Carbide Bit	DATE	15/06/2024
WS - Wash Sample	DB - Diamond Bit	CLIENT IN-CHARGE	

PROJECT SITE DETAILS	
GROUND LEVEL (m)	
WATER LEVEL (m)	
CASING DEPTH (m)	

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GEOMARINE
THE SPIRIT OF ENGINEERING

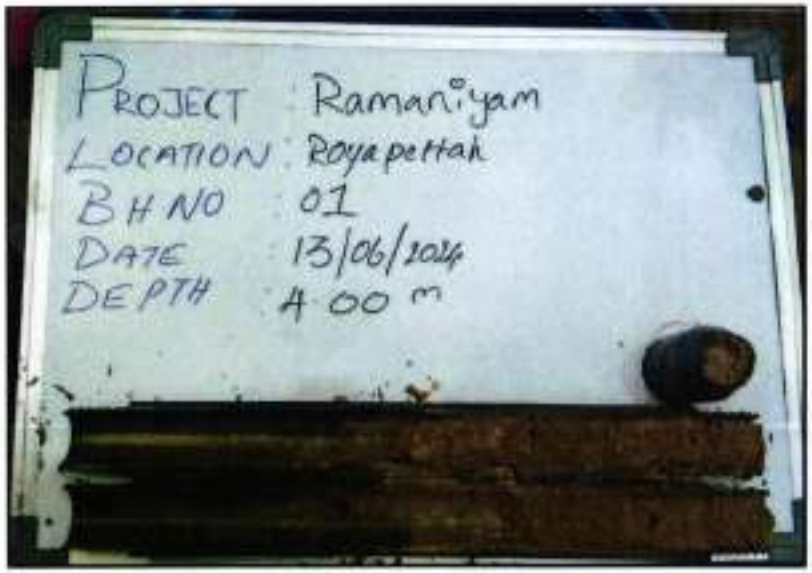


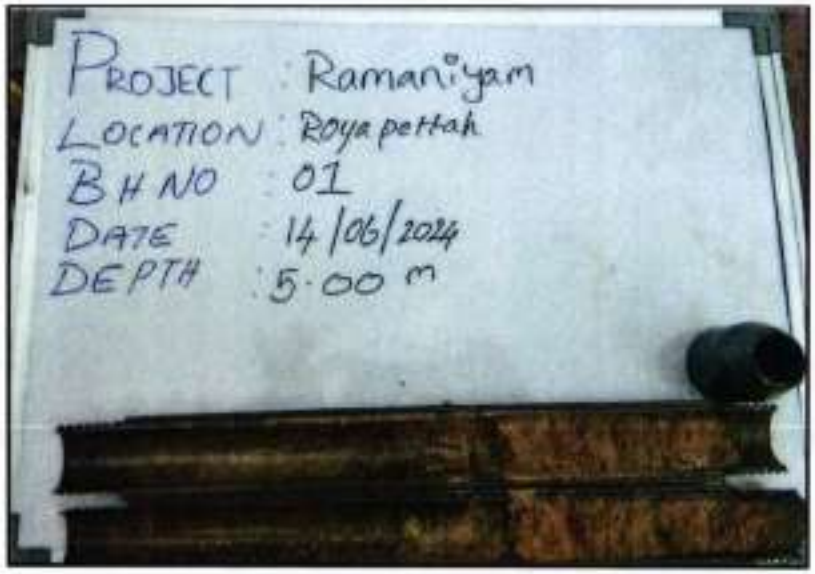


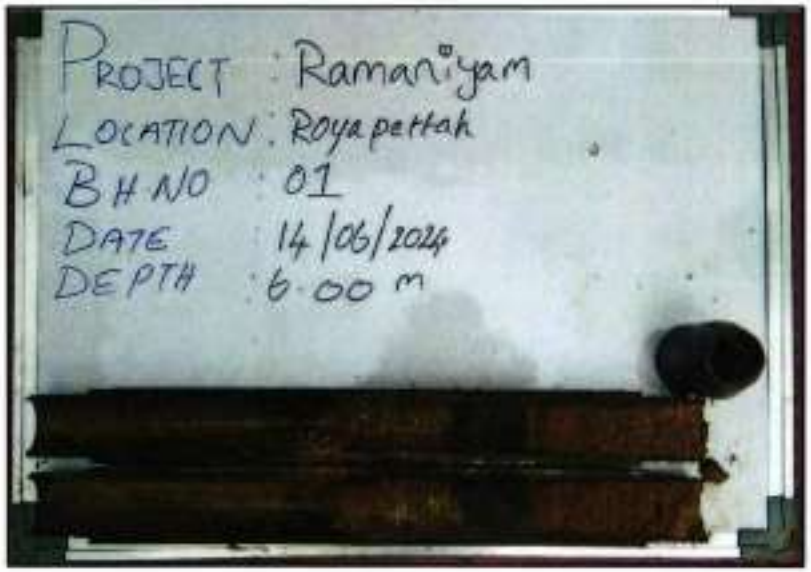




GEOMARINE


PROJECT : Ramaniyam
LOCATION : Royapettah
BH NO : 01
DATE : 13/06/2024
DEPTH : 4.00 m


PROJECT : Ramaniyam
LOCATION : Royapettah
BH NO : 01
DATE : 14/06/2024
DEPTH : 5.00 m


PROJECT : Ramaniyam
LOCATION : Royapettah
BH NO : 01
DATE : 14/06/2024
DEPTH : 6.00 m


PROJECT : Ramaniyam
LOCATION : Royapettah
BH NO : 01
DATE : 14/06/2024
DEPTH : 7.50 m

GEOMARINE


PROJECT : Ramaniyam
LOCATION : Roya pettah
BH NO : 01
DATE : 14/06/2024
DEPTH : 9.00 m


PROJECT : Ramaniyam
LOCATION : Roya pettah
BH NO : 01
DATE : 14/06/2024
DEPTH :


PROJECT : Ramaniyam
LOCATION : Roya pettah
BH NO : 01
DATE : 14/06/2024
DEPTH : 12.00 m


PROJECT : Ramaniyam
LOCATION : Roya pettah
BH NO : 01
DATE : 14/06/2024
DEPTH : 14.00 m

GEOMARINE


PROJECT : Ramaniyam
LOCATION : Roya petta h
BH NO : 01
DATE : 14/06/2024
DEPTH : 16.00 m

GEOMARINE


PROJECT : Ramaniyam
LOCATION : Royapettah
BH NO : 01
DATE : 15/06/2024
DEPTH : 19.00 m
CRR - 20%
RQD - 9%

GEOMARINE


PROJECT : Ramaniyam
LOCATION : Royapettah
BH NO : 01
DATE : 15/06/2024
DEPTH : 20.00 m
CRR - 18 %
RQD - 0 %

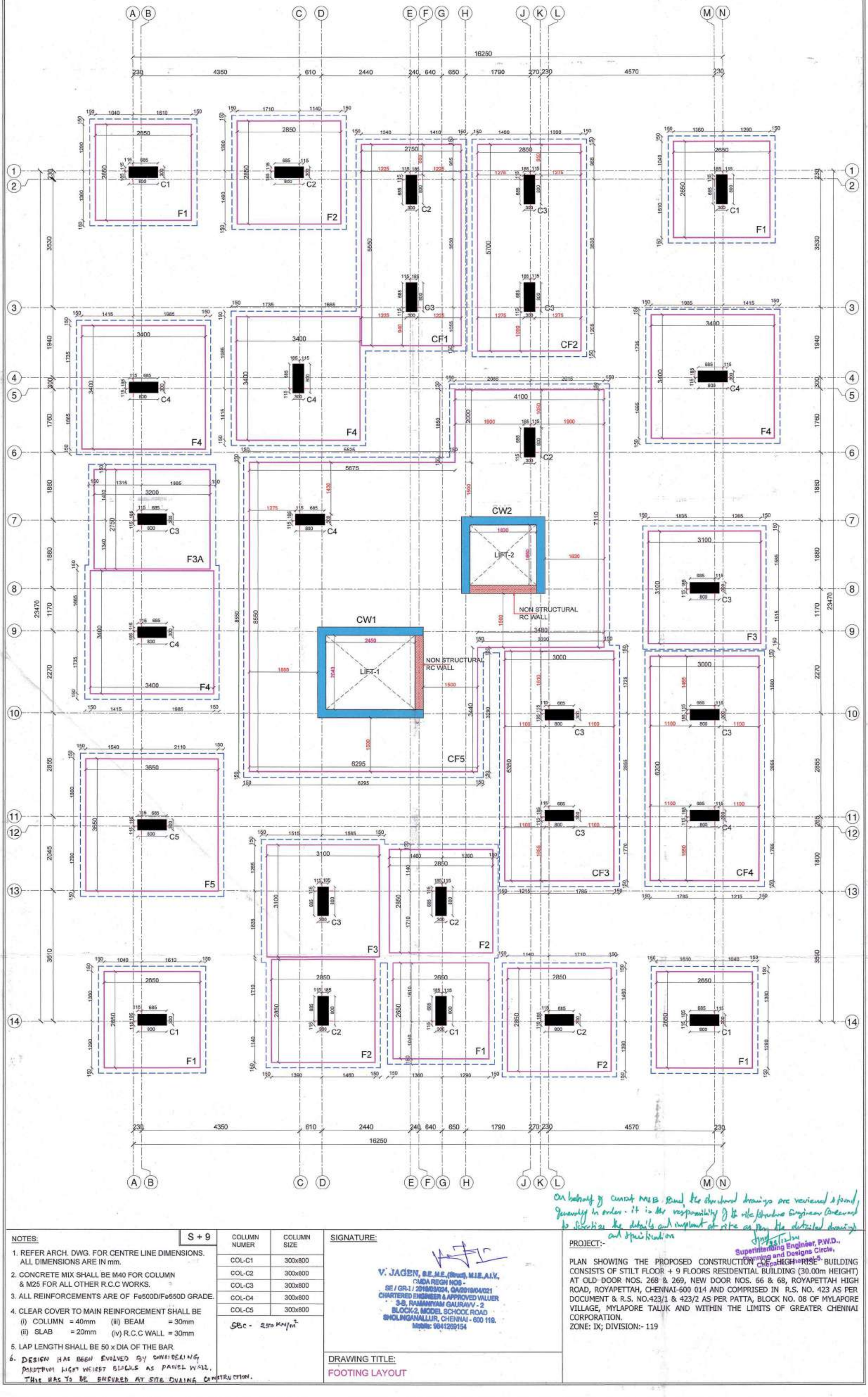
GEOMARINE


PROJECT : Ramaniyam
LOCATION : Royapettah
BH NO : 01
DATE : 15/06/2024
DEPTH : 21.00 m
CRR - 86 %
RQD - 51 %

GEOMARINE



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NOTES:	S + 9

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M25 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. DESIGN HAS BEEN EVOLVED BY CONSIDERING PERFORM LIGHT WEIGHT BLOCKS AS PANEL WALL. THIS HAS TO BE ENSURED AT SITE DURING CONSTRUCTION.

COLUMN NUMER	COLUMN SIZE
COL-C1	300x800
COL-C2	300x800
COL-C3	300x800
COL-C4	300x800
COL-C5	300x800

SBC - 250 KN/m²

SIGNATURE:

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-1 / 2018/03/024, QA/2018/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

DRAWING TITLE:

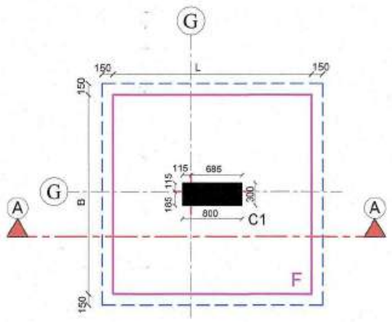
FOOTING LAYOUT

PROJECT:-

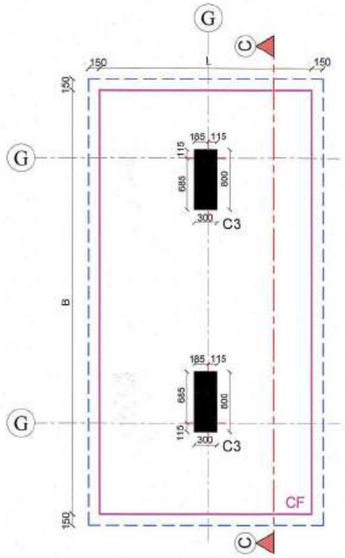
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.
ZONE: IX; DIVISION:- 119

On behalf of CMDA MAS B, found the structural drawings are reviewed & found generally in order. It is the responsibility of the site Structural Engineer & Owners to scrutinize the details and implement at site as per the detailed drawings and specification

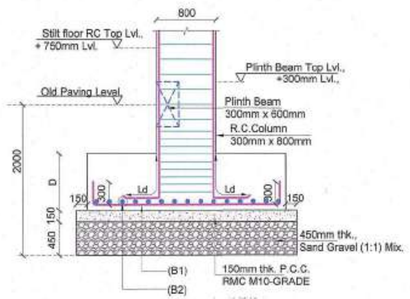
Superintending Engineer, P.W.D.,
Planning and Designs Circle,
Chepauk, Chennai-5.



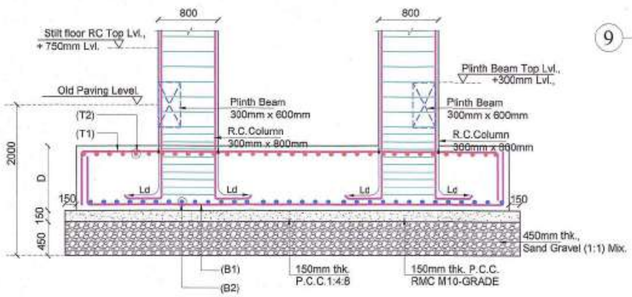
TYPICAL SQUARE ISOLATED FOOTING



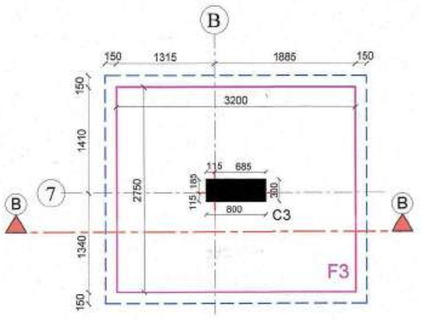
TYPICAL COMBINED FOOTING



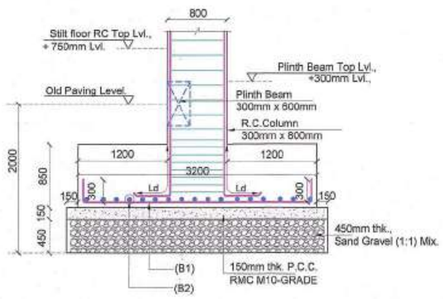
SECTION A - A



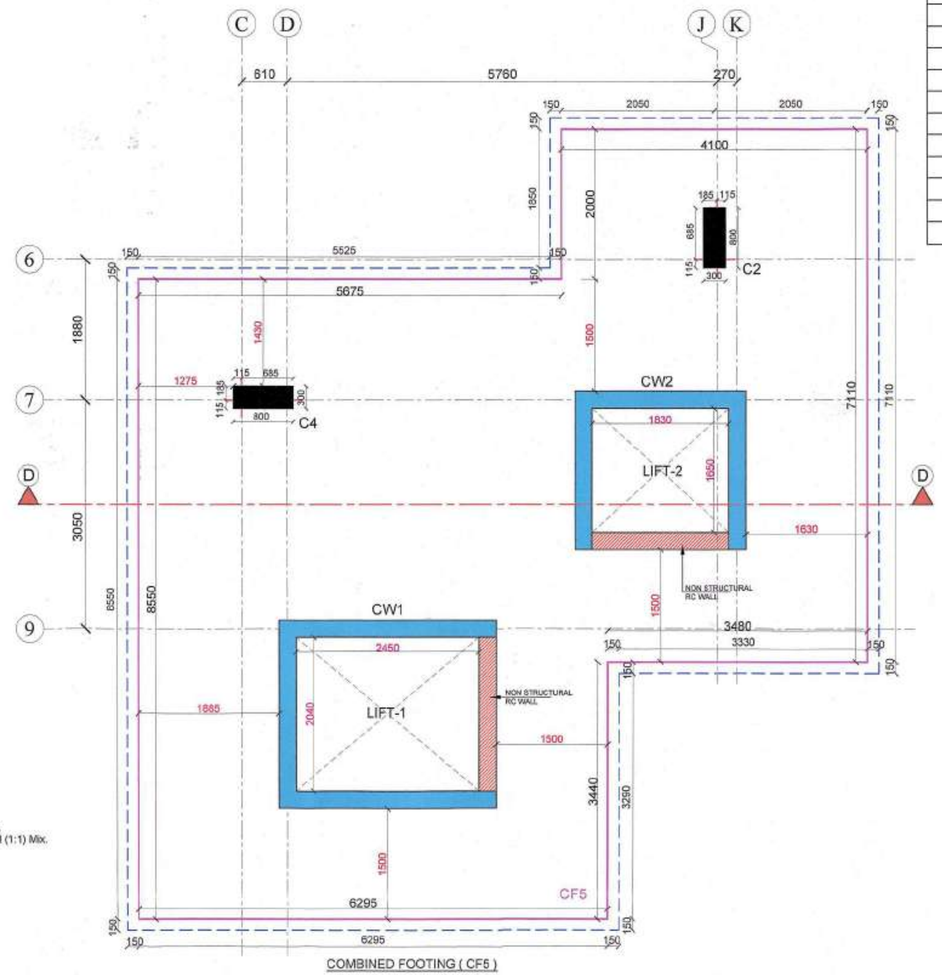
SECTION C - C



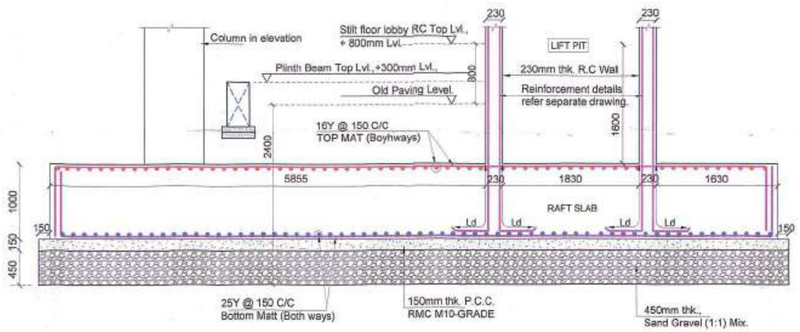
ISOLATED FOOTING (F3)
SIZE : 3.10m x 2.75m



SECTION B - B



COMBINED FOOTING (CF5)



SECTION - D - D

SCHEDULE OF FOOTINGS

FOOTING NO.	NO OF FOOTING	L (mm)	B (mm)	D (mm)	REINFORCEMENT			
					B1	B2	T1	T2
F1	5 NOS.	2650	2650	750	12Y@125 C/C	12Y@125 C/C	-	-
F2	4 NOS.	2850	2850	800	12Y@110 C/C	12Y@110 C/C	-	-
F3	2 NOS.	3100	3100	850	16Y@175 C/C	16Y@175 C/C	-	-
F3A	1 NO.	3200	2750	850	16Y@175 C/C	16Y@175 C/C	-	-
F4	4 NOS.	3400	3400	925	16Y@150 C/C	16Y@150 C/C	-	-
F5	1 NO.	3650	3650	1000	16Y@150 C/C	16Y@150 C/C	-	-
CF1	1 NO.	5550	2750	850	16Y@175 C/C	16Y@175 C/C	12Y@110 C/C	12Y@110 C/C
CF2	1 NO.	5700	2850	850	16Y@150 C/C	16Y@150 C/C	12Y@110 C/C	12Y@110 C/C
CF3	1 NO.	6350	3000	900	16Y@110 C/C	16Y@110 C/C	16Y@175 C/C	16Y@175 C/C
CF4	1 NO.	6200	3000	950	16Y@110 C/C	16Y@110 C/C	16Y@175 C/C	16Y@175 C/C
CF5	1 NO.	REFER PLAN		1000	25Y@150 C/C	25Y@150 C/C	16Y@150 C/C	16Y@150 C/C

S + 9

NOTES:

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M25 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.

SIGNATURE:

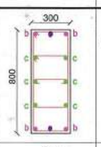
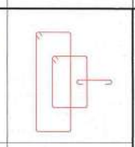
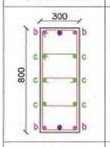
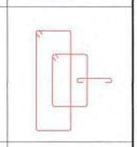
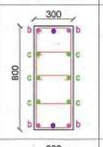
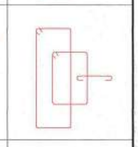
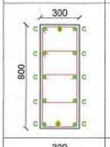
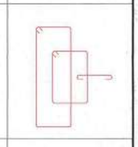
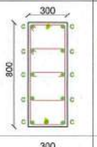
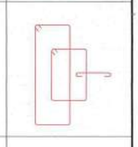
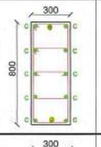
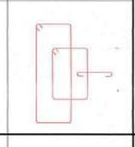
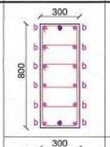
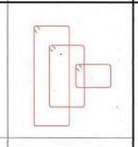
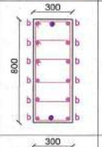
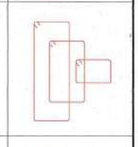
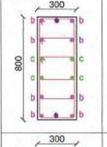
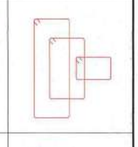
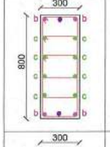
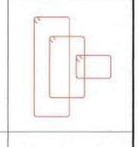
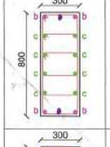
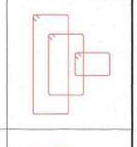
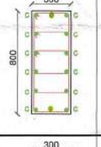
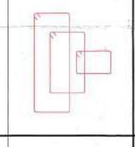
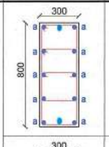
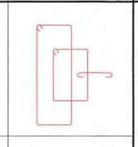
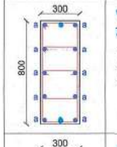
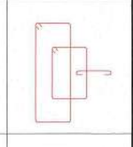
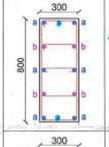
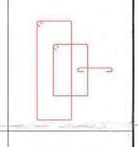
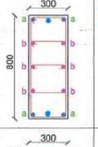
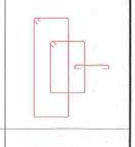
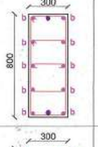
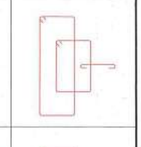
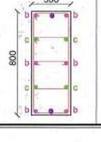
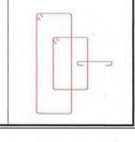
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Mobile: 9841269154

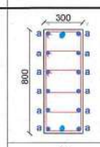
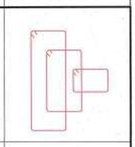
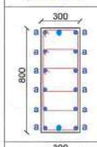
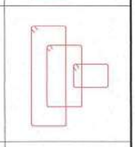
DRAWING TITLE:

FOOTING SCHEDULE & SECTION DETAIL

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.
ZONE: IX; DIVISION:- 119

COLUMN I.D	FLOORS	NO. OF COLUMNS	COLUMN SIZE	REINFORCEMENT DETAILS	SHAPE OF TIES
C1	300X800 STILT FLOOR	5 Nos.		6 Nos -20Y (b) + 6 Nos-16Y (c) TIES 10Y @ 100C/C @ SUP.FOR H	
	300X800 FIRST FLOOR			6 Nos -20Y (b) + 6 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 SECOND & THIRD FLOOR			6 Nos -20Y (b) + 6 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 FOURTH & FIFTH FLOOR			12 10 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 SIXTH & SEVENTH FLOOR			12 10 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 EIGHTH, NINTH & TERRACE FLOOR			12 10 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
C2	300X800 STILT FLOOR	6 Nos.		13 12 Nos -20Y (b) TIES 10Y @ 100C/C @ SUP.FOR H	
	300X800 FIRST FLOOR			14 12 Nos -20Y (b) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 SECOND & THIRD FLOOR			10 8 Nos -20Y (b) + 4 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 FOURTH & FIFTH FLOOR			6 6 Nos -20Y (b) + 8 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 SIXTH & SEVENTH FLOOR			6 6 Nos -20Y (b) + 8 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 EIGHTH, NINTH & TERRACE FLOOR			14 12 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
C3	300X800 STILT FLOOR	9 Nos.		12 10 Nos -25Y (a) TIES 10Y @ 100C/C @ SUP.FOR H	
	300X800 FIRST FLOOR			12 10 Nos -25Y (a) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 SECOND & THIRD FLOOR			8 8 Nos -25Y (a) + 4 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 FOURTH & FIFTH FLOOR			6 6 Nos -25Y (a) + 6 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 SIXTH & SEVENTH FLOOR			12 10 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 EIGHTH, NINTH & TERRACE FLOOR			8 8 Nos -20Y (b) + 4 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	

COLUMN I.D	FLOORS	NO. OF COLUMNS	COLUMN SIZE	REINFORCEMENT DETAILS	SHAPE OF TIES
C4	300X800 STILT FLOOR	6 Nos.		14 12 Nos -25Y (a) TIES 10Y @ 100C/C @ SUP.FOR H	
	300X800 FIRST FLOOR			14 12 Nos -25Y (a) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 SECOND & THIRD FLOOR			6 6 Nos -25Y (a) + 8 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 FOURTH & FIFTH FLOOR			14 12 Nos -20Y (b) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 SIXTH & SEVENTH FLOOR			6 6 Nos -20Y (b) + 8 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 EIGHTH, NINTH & TERRACE FLOOR			6 6 Nos -20Y (b) + 8 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
C5	300X800 STILT FLOOR	1 No.		16 14 Nos -25Y (a) TIES 10Y @ 100C/C @ SUP.FOR H	
	300X800 FIRST FLOOR			16 14 Nos -25Y (a) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 SECOND & THIRD FLOOR			6 6 Nos -25Y (a) + 10 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 FOURTH & FIFTH FLOOR			6 6 Nos -20Y (b) + 10 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 SIXTH & SEVENTH FLOOR			18 14 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	
	300X800 EIGHTH, NINTH & TERRACE FLOOR			16 14 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR H/4 8Y @ 200C/C @ MID.FOR H/2	

S + 9

NOTES:

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   (ii) SLAB = 20mm (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.

SIGNATURE:

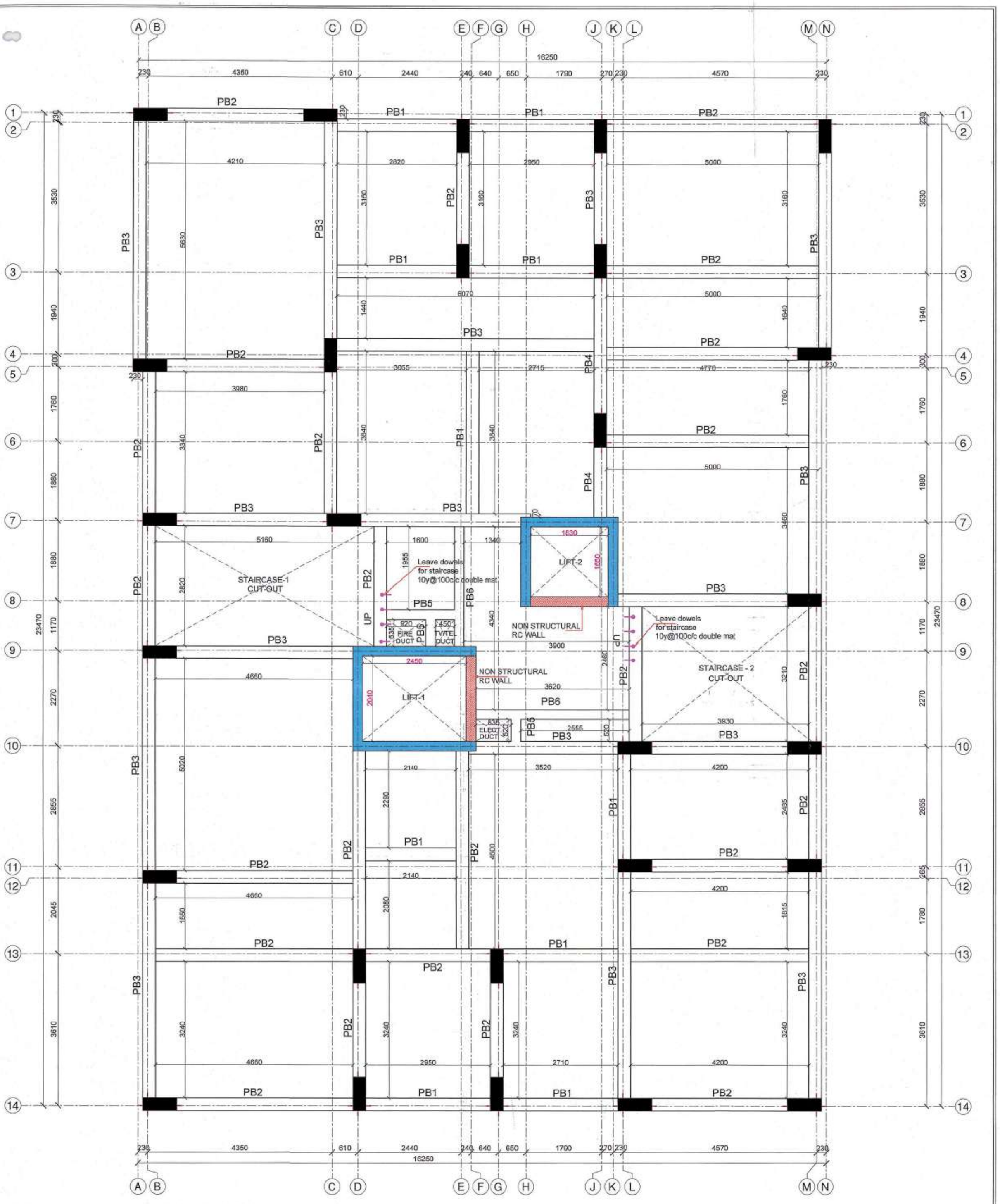
V. JAGEN, B.E.M.E.,(Struct), M.I.E.,A.I.V.,
- CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841209154

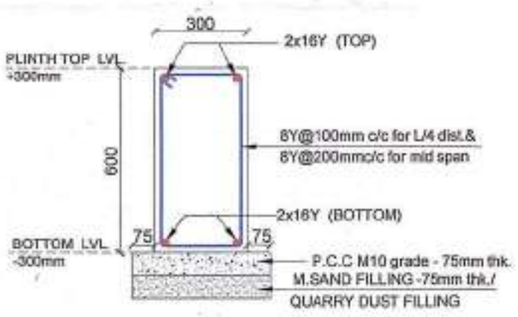
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COLUMN SCHEDULE

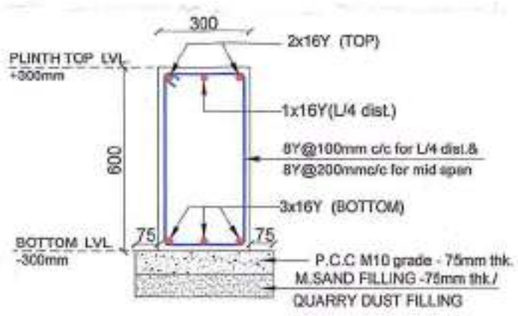
PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.
ZONE: IX; DIVISION:- 119

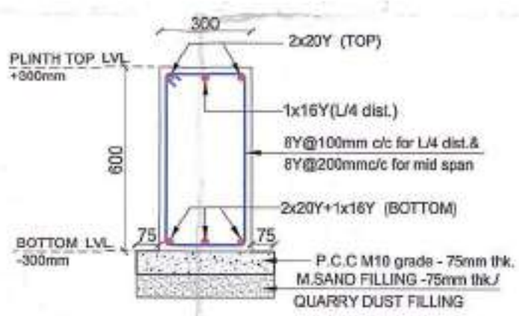




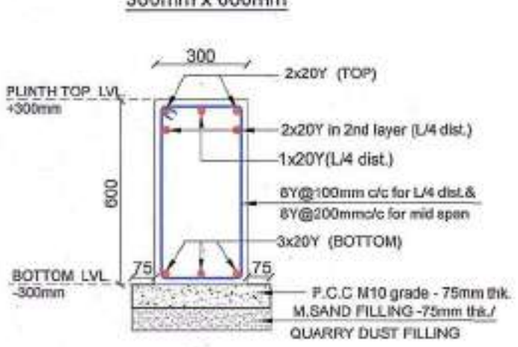
C.S OF PB1
300mm x 600mm



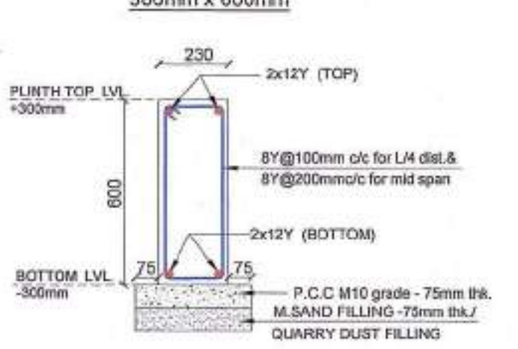
C.S OF PB2
300mm x 600mm



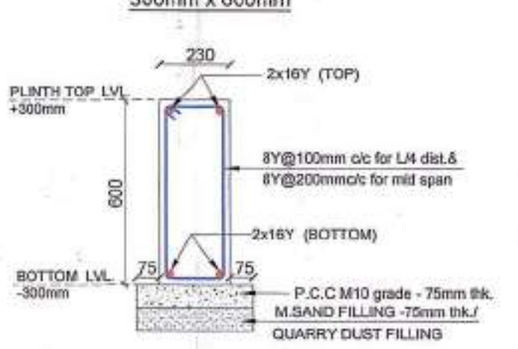
C.S OF PB3
300mm x 600mm



C.S OF PB4
300mm x 600mm



C.S OF PB5
230mm x 600mm



C.S OF PB6
230mm x 600mm

S + 9

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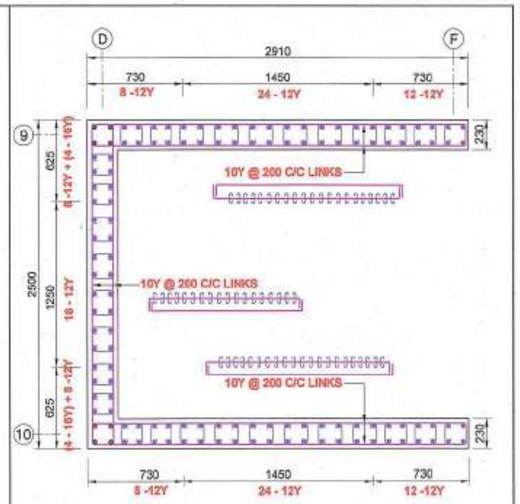
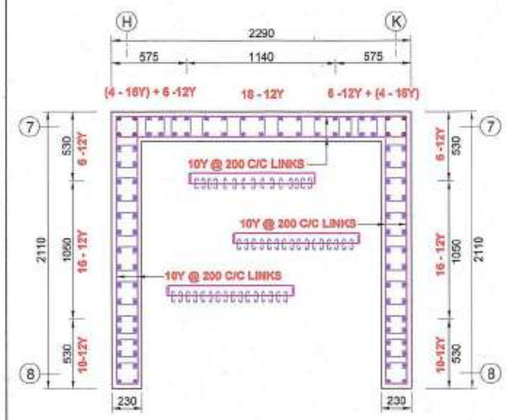
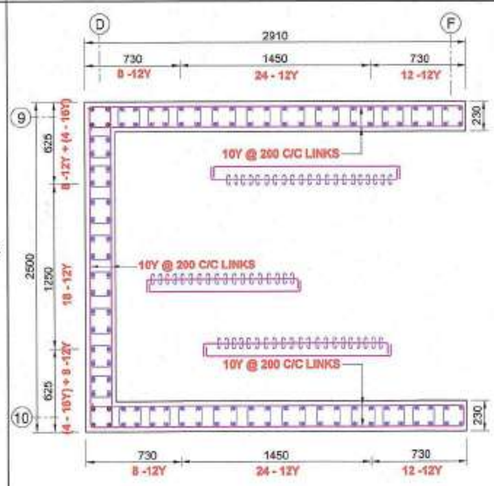
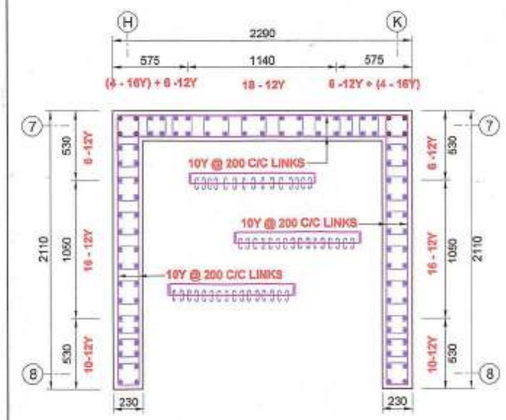
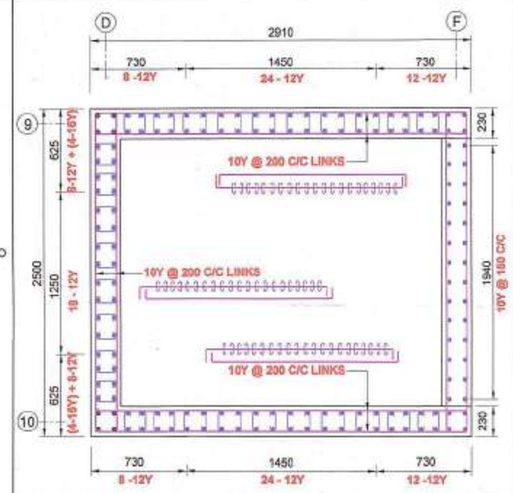
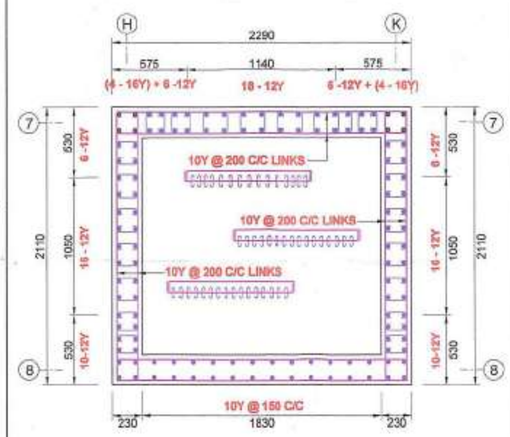
V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

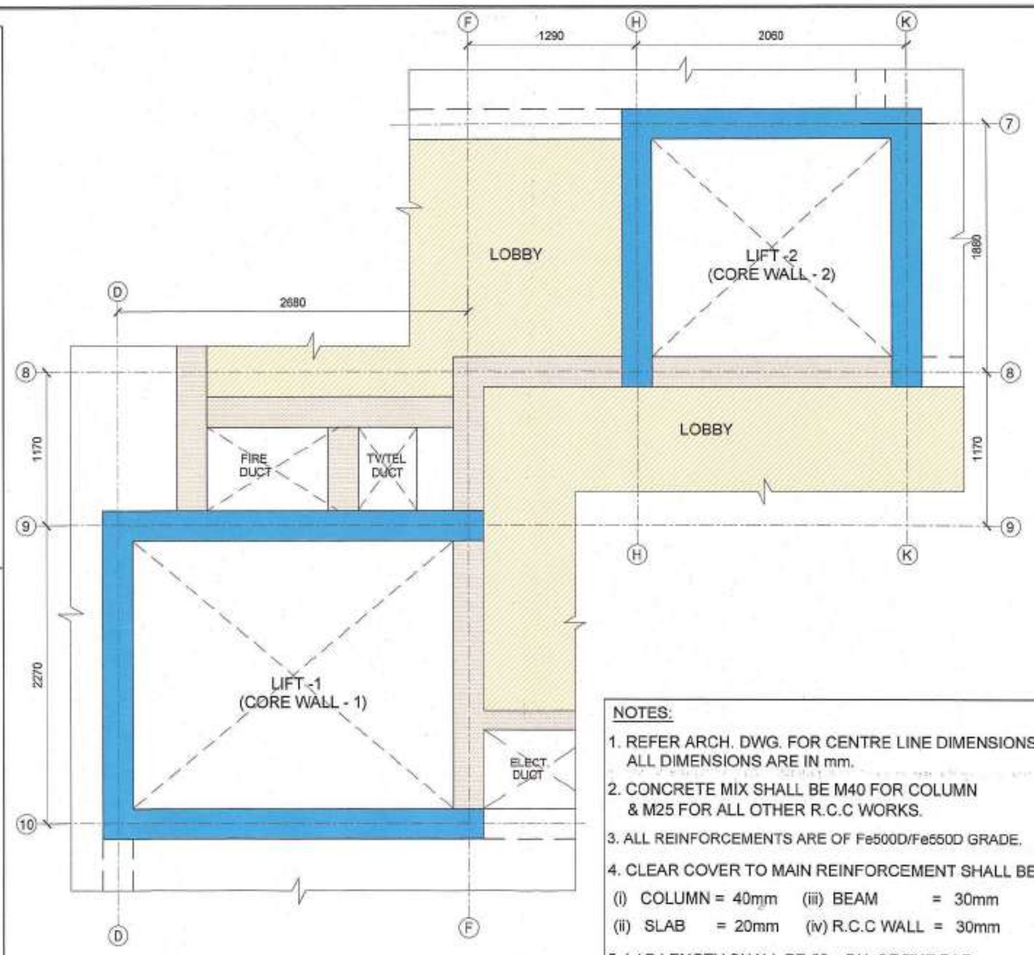
DRAWING TITLE:

PLINTH BEAM LAYOUT

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.
ZONE: IX; DIVISION:- 119

WALL I.D	FLOOR DETAILS	REINFORCEMENT DETAILS
CORE WALL - 1 (C.W - 1)	TERRACE FLOOR	
CORE WALL - 2 (C.W - 2)	TERRACE FLOOR	
CORE WALL - 1 (C.W - 1)	TYPICAL FLOOR (1st to 9th floor)	
CORE WALL - 2 (C.W - 2)	TYPICAL FLOOR (1st to 9th floor)	
CORE WALL - 1 (C.W - 1)	FOUNDATION TO BASEMENT TOP LEVEL	
CORE WALL - 2 (C.W - 2)	FOUNDATION TO BASEMENT TOP LEVEL	



TYPICAL FLOOR - PLAN
FOR CORE WALL - 1 & CORE WALL - 2

NOTES:

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   (ii) SLAB = 20mm (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.

SIGNATURE:

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
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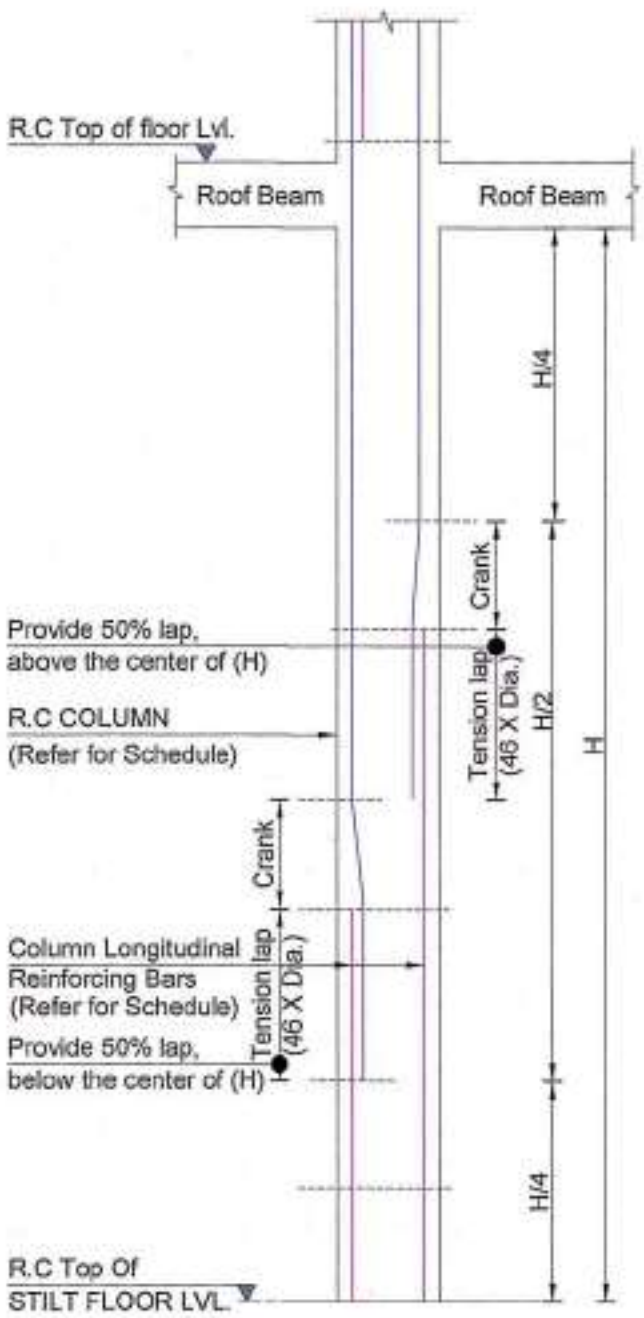
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R.C DETAILS OF CORE WALL - 1 & CORE WALL - 2

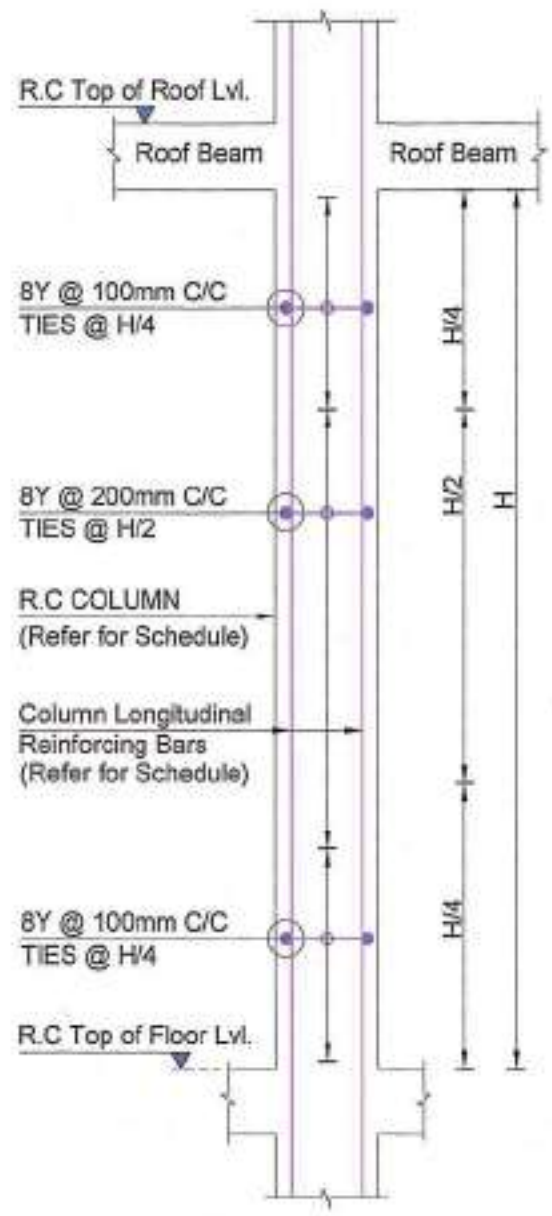
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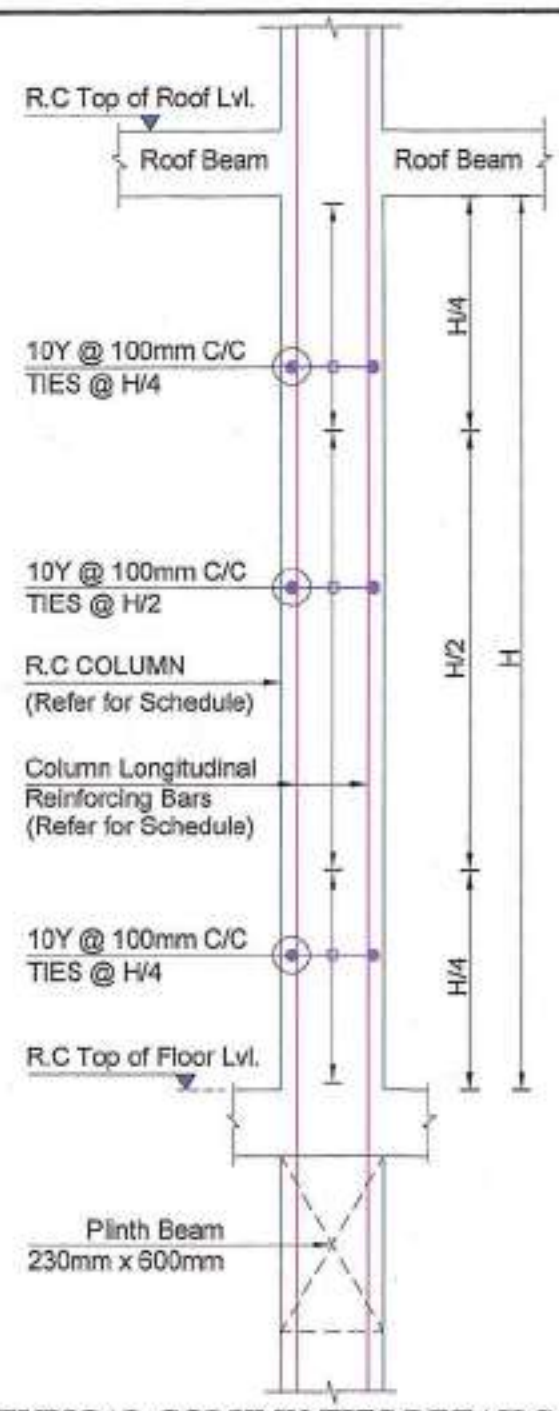
ZONE: IX; DIVISION:- 119



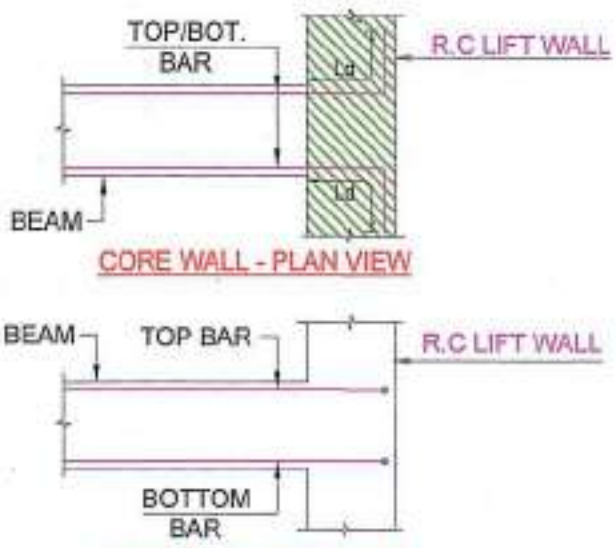
TYPICAL COLUMN REINFORCEMENT DETAILS FOR ABOVE FLOOR LEVEL

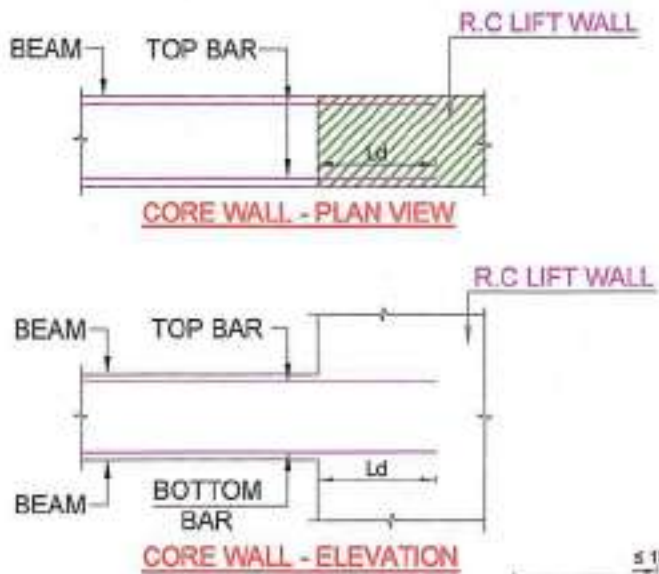


TYPICAL COLUMN TIES DETAILS FOR OTHER FLOORS



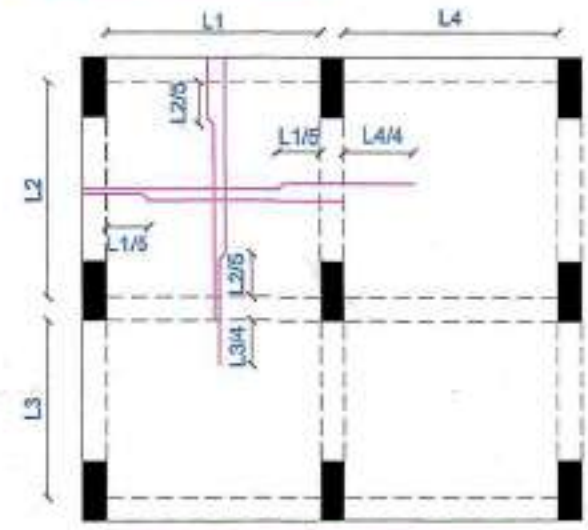
TYPICAL COLUMN TIES DETAILS UP TO STILT FLOOR ROOF LEVEL







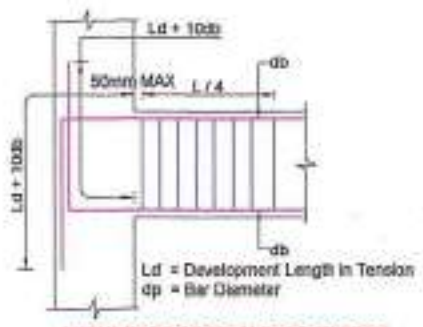
TYPICAL COLUMN TERMINATION DETAIL



TYPICAL CRANK LENGTH IN SLAB

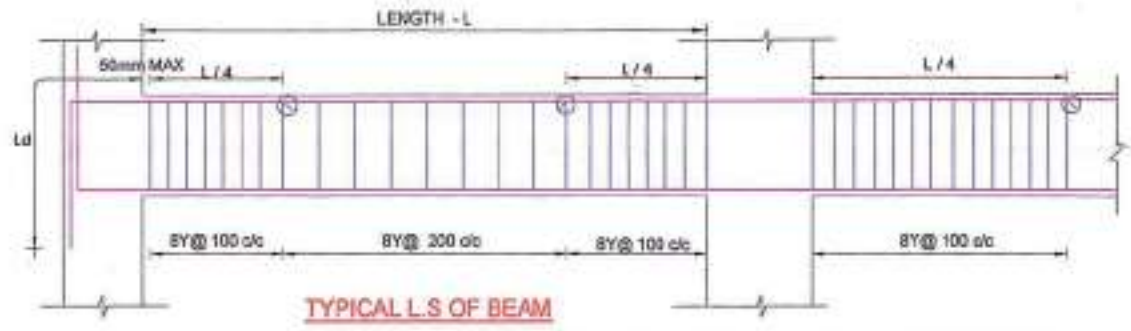
LAP / SPLICE IN BEAM

Note : Not more than 50 percent of the bars shall be spliced at one section.



ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

Note : In an internal joint, Both top & bottom bars of the Beam shall be taken continuously through the column.



TYPICAL L.S OF BEAM

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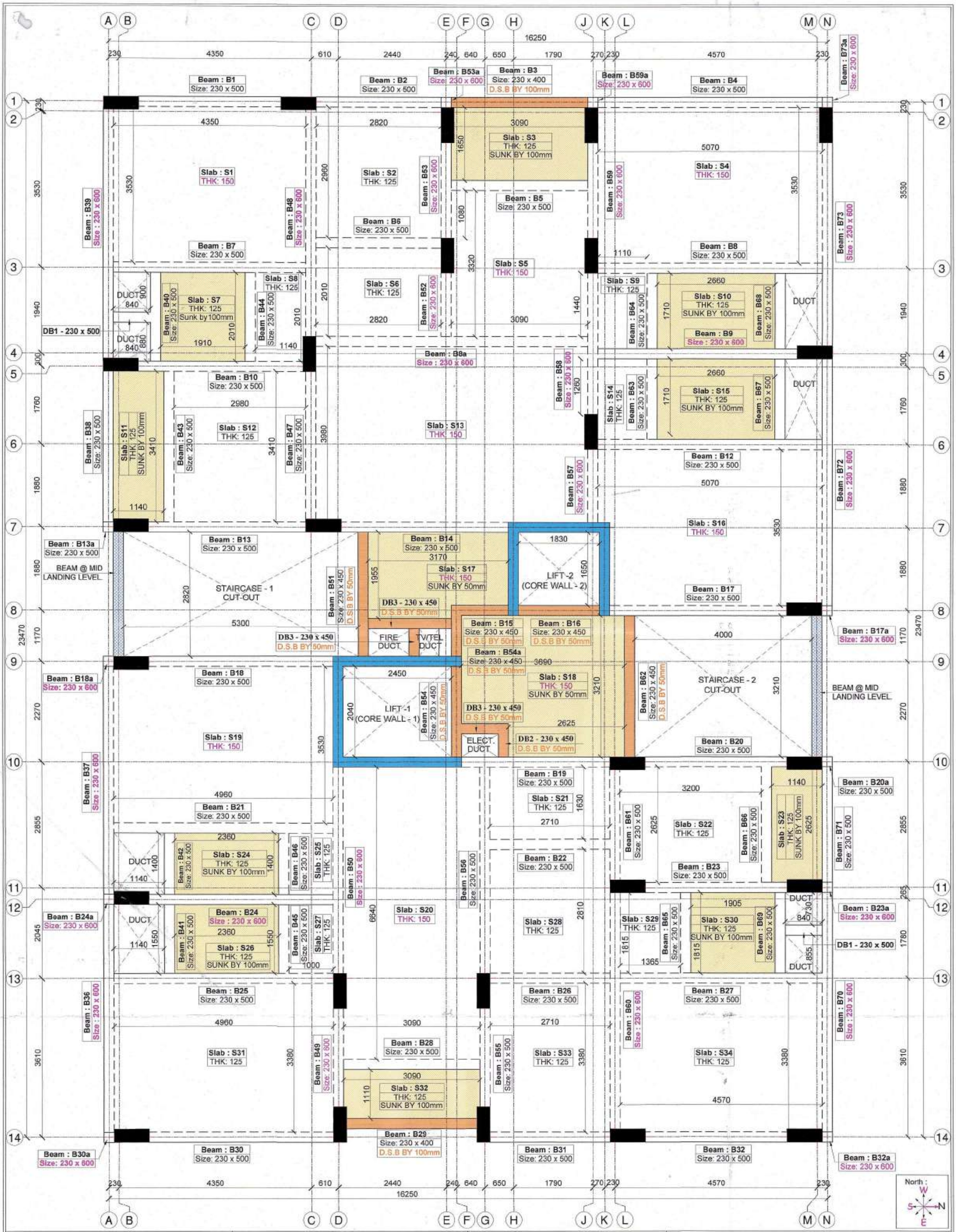
STANDARD DETAILS

SIGNATURE :

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

PROJECT:-

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ZONE: IX; DIVISION:- 119



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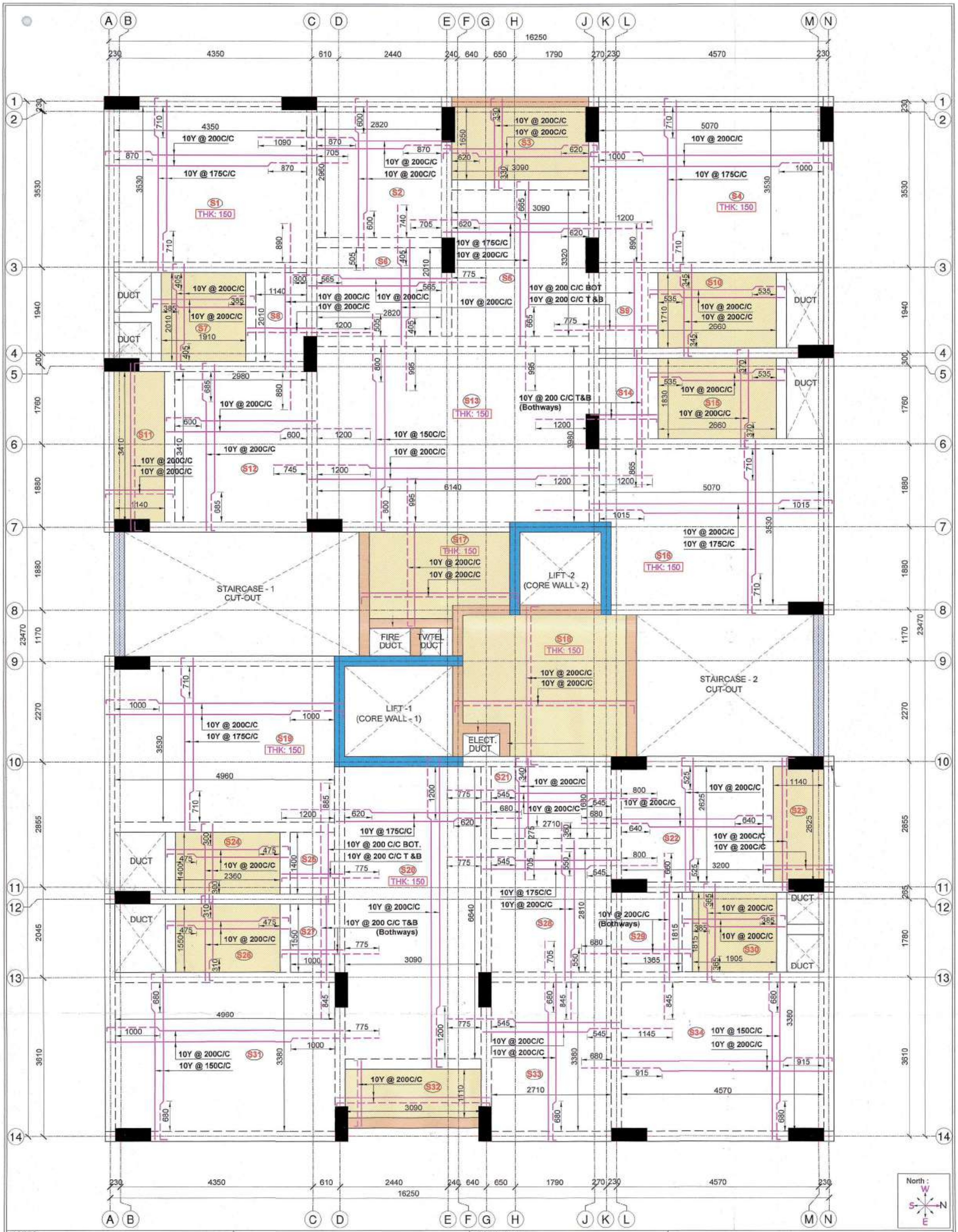
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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

DRAWING TITLE:-

STILT FLOOR ROOF BEAM FRAMING LAYOUT

PROJECT:-

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SIGNATURE :-

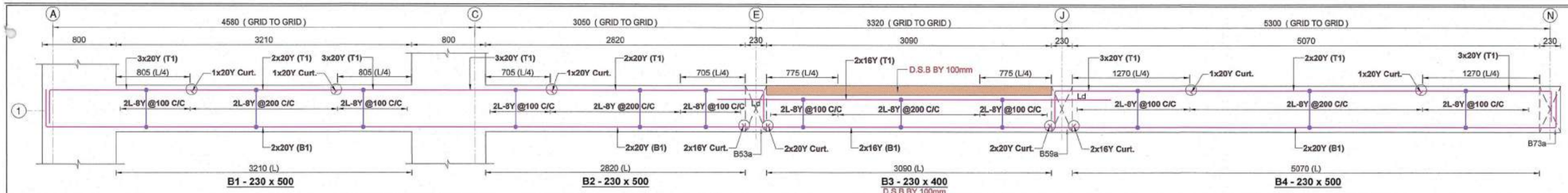
V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 20[illegible]/24, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

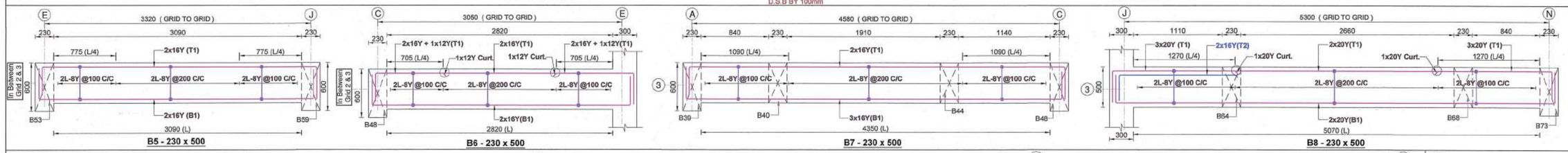
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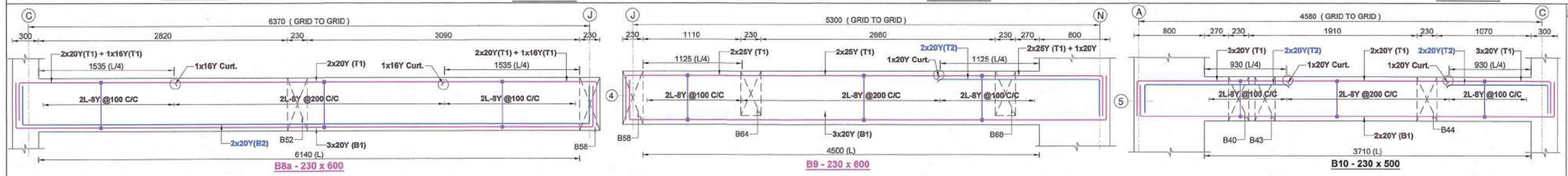
STILT FLOOR ROOF SLAB LAYOUT

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.
ZONE: IX; DIVISION:- 119

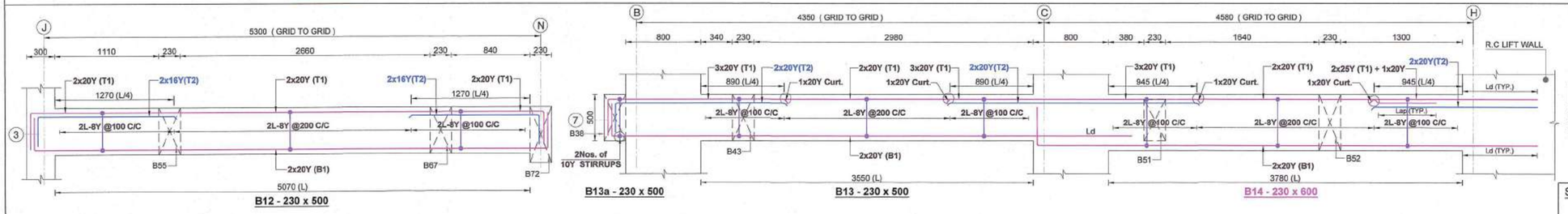






NOTES:

1. REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. ALL DIMENSIONS ARE IN mm.
2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M25 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
   (ii) SLAB = 20mm
   (iii) BEAM = 30mm
   (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.



SIGNATURE :-

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

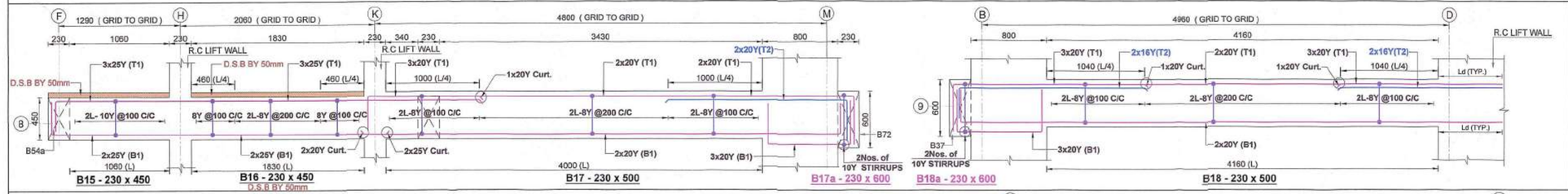
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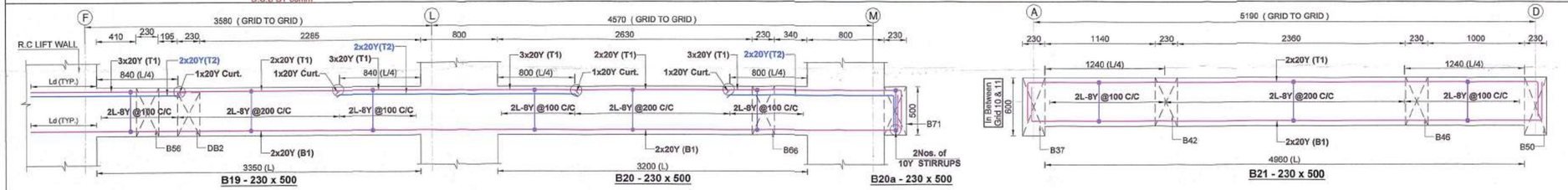
STILT FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 1 0F 3)

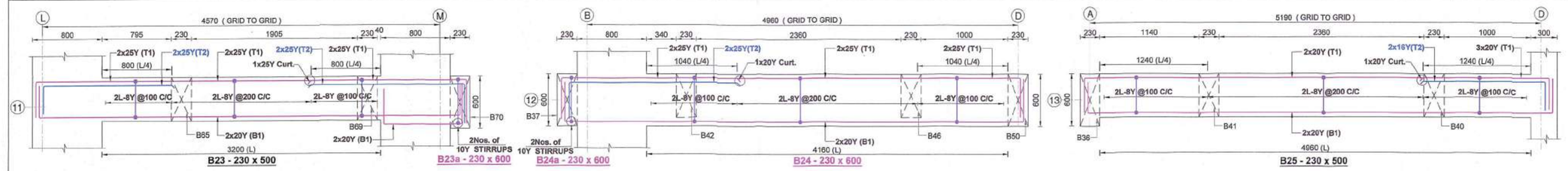
PROJECT:-

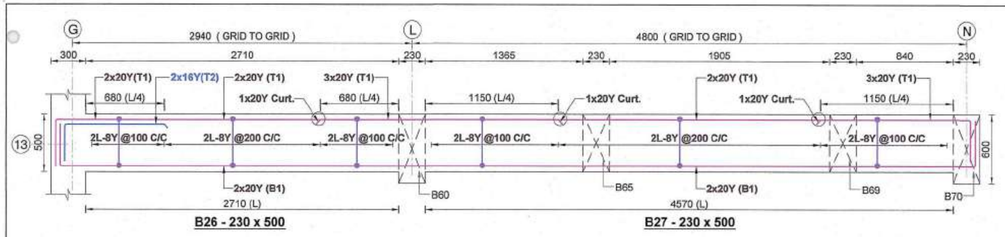
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

ZONE: IX; DIVISION:- 119



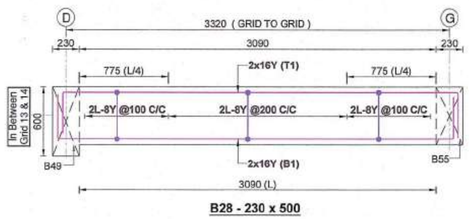




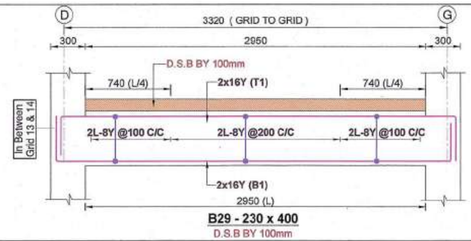


B26 - 230 x 500

B27 - 230 x 500

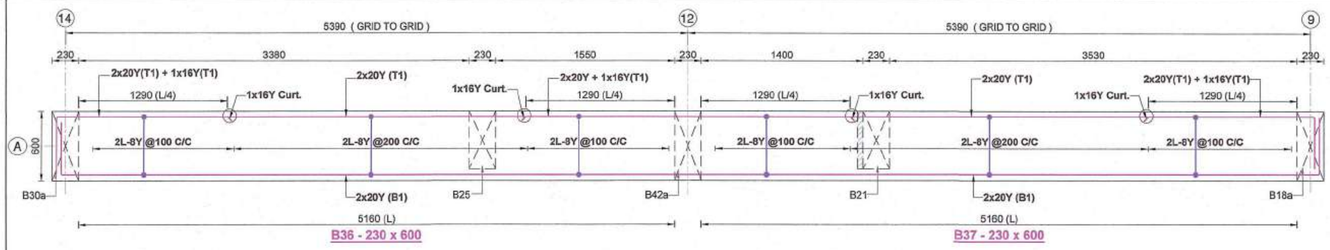


B28 - 230 x 500



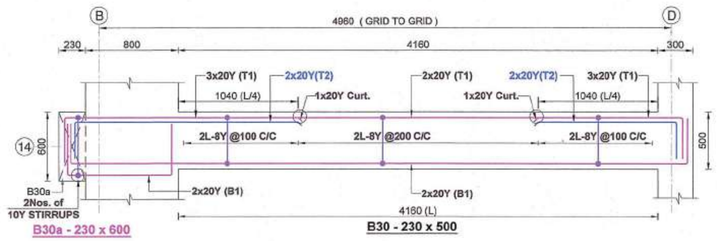
B29 - 230 x 400

D.S.B BY 100mm



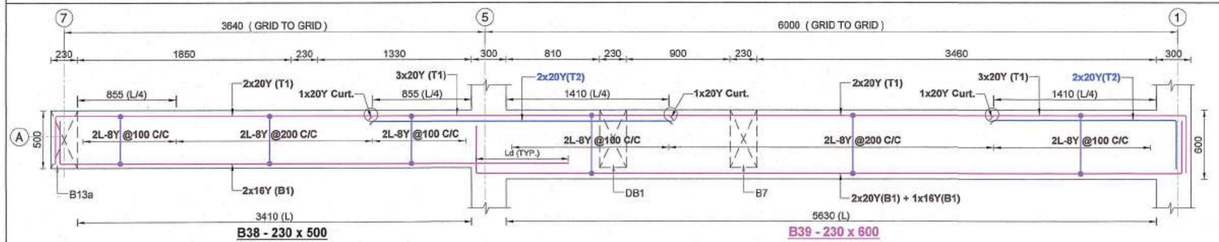
B36 - 230 x 600

B37 - 230 x 600



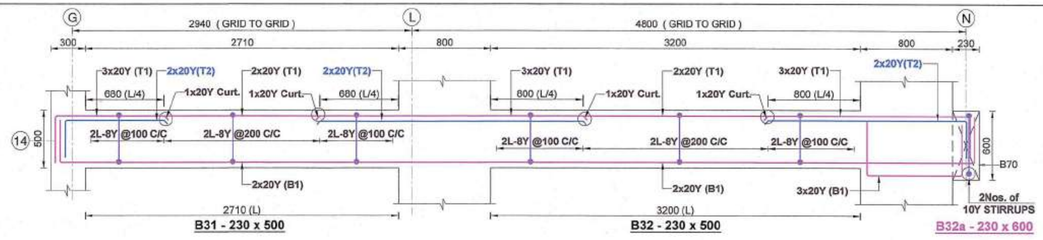
B30a - 230 x 600

B30 - 230 x 500



B38 - 230 x 500

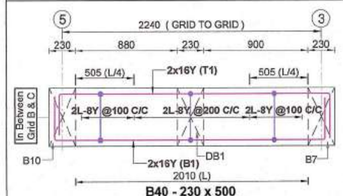
B39 - 230 x 600



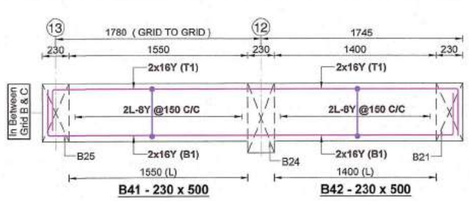
B31 - 230 x 500

B32 - 230 x 500

B32a - 230 x 600

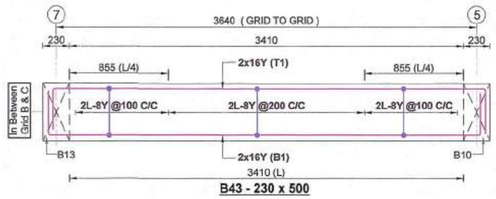


B40 - 230 x 500

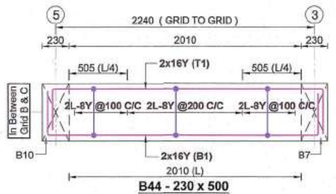


B41 - 230 x 500

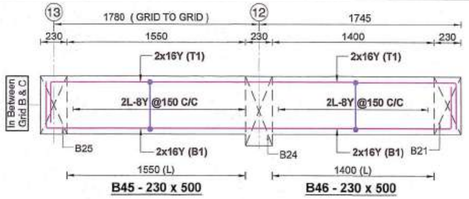
B42 - 230 x 500



B43 - 230 x 500

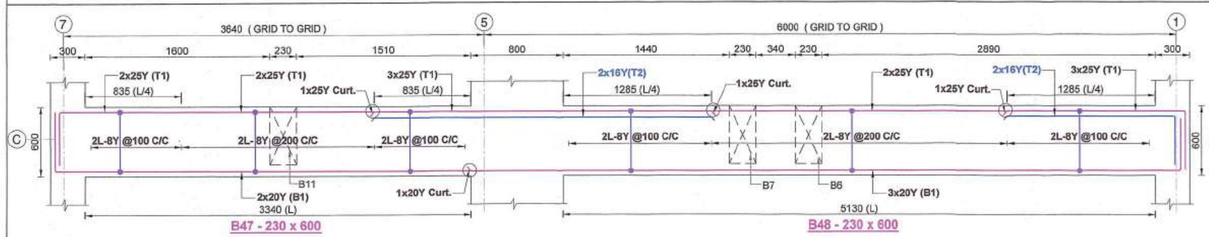


B44 - 230 x 500



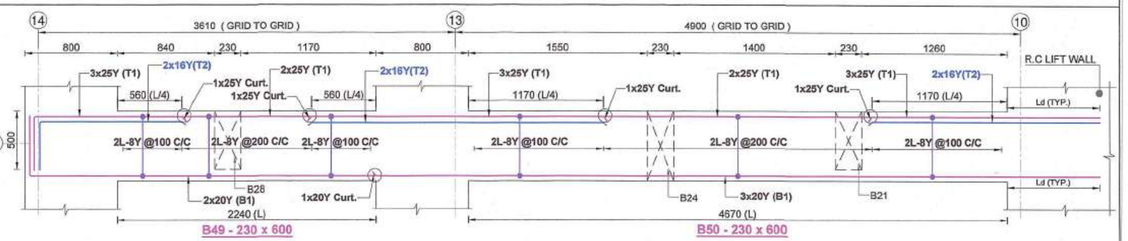
B45 - 230 x 500

B46 - 230 x 500



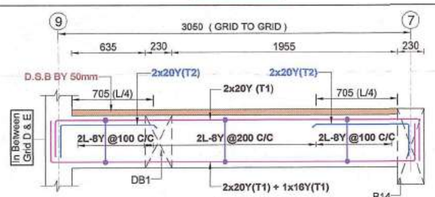
B47 - 230 x 600

B48 - 230 x 600



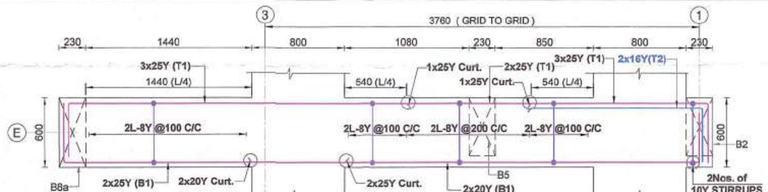
B49 - 230 x 600

B50 - 230 x 600



B51 - 230 x 450

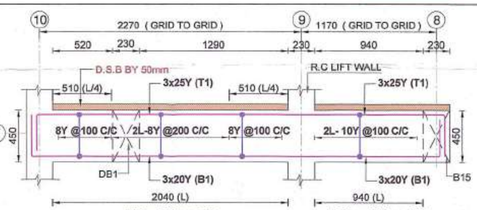
D.S.B BY 50mm



B52 - 230 x 600

B53 - 230 x 600

B53a - 230 x 600

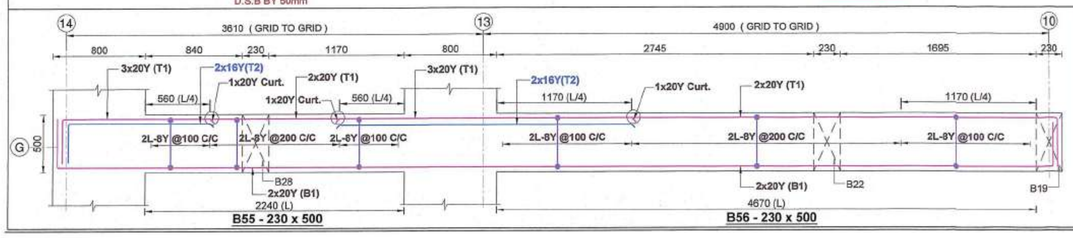


B54 - 230 x 450

D.S.B BY 50mm

B54a - 230 x 450

D.S.B BY 50mm



B55 - 230 x 500

B56 - 230 x 500

NOTES:

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   (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.

DRAWING TITLE:-

STILT FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 2 0F 3)

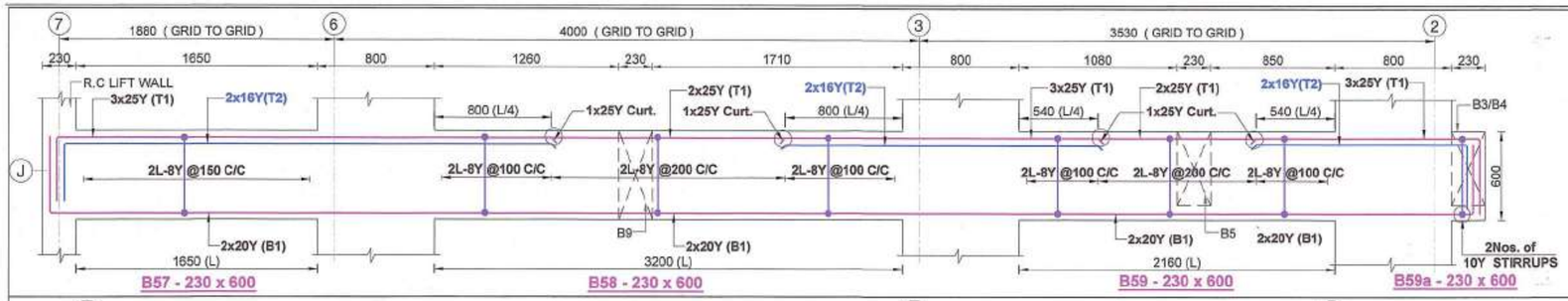
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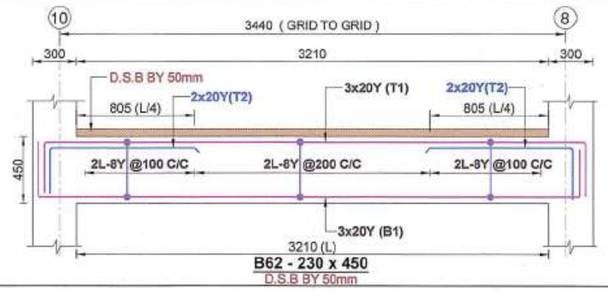
V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03024, CAJ/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841259154

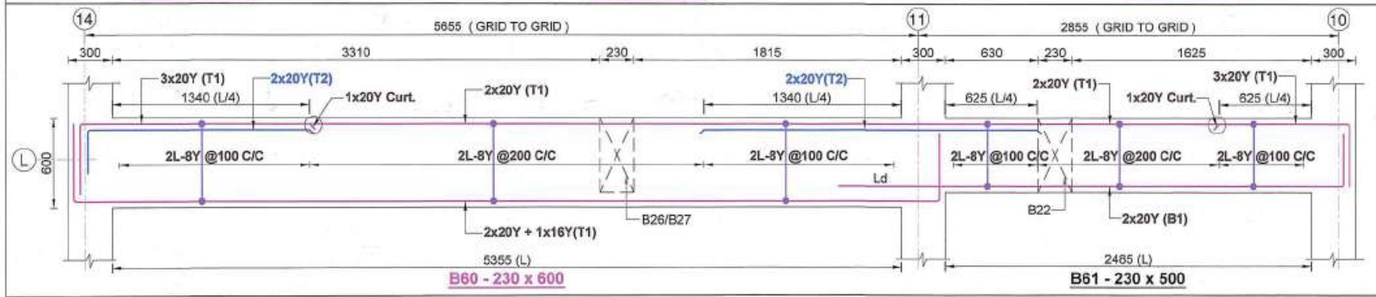
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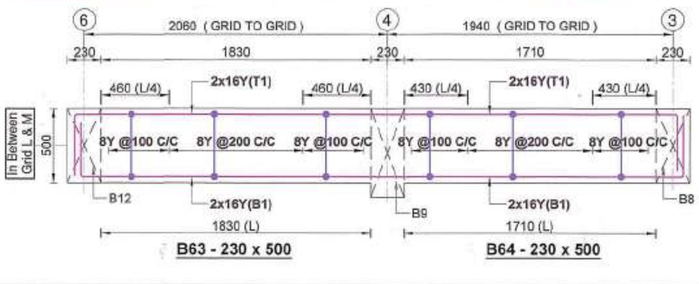
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

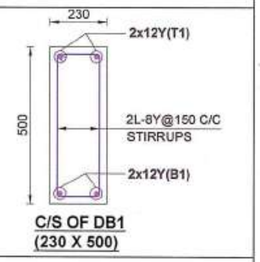
ZONE: IX; DIVISION:- 119







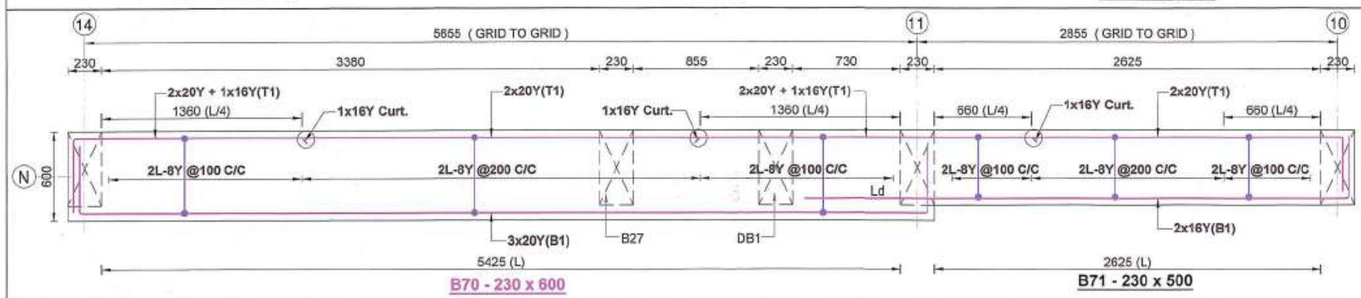


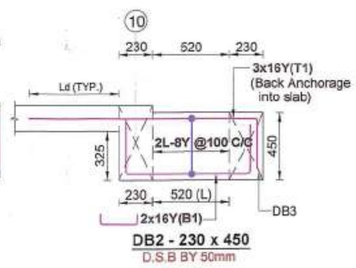


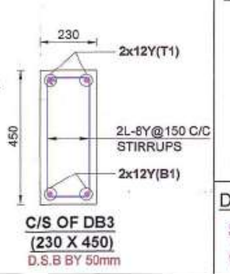
C/S OF DB1
(230 X 500)

NOTES:

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   (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.







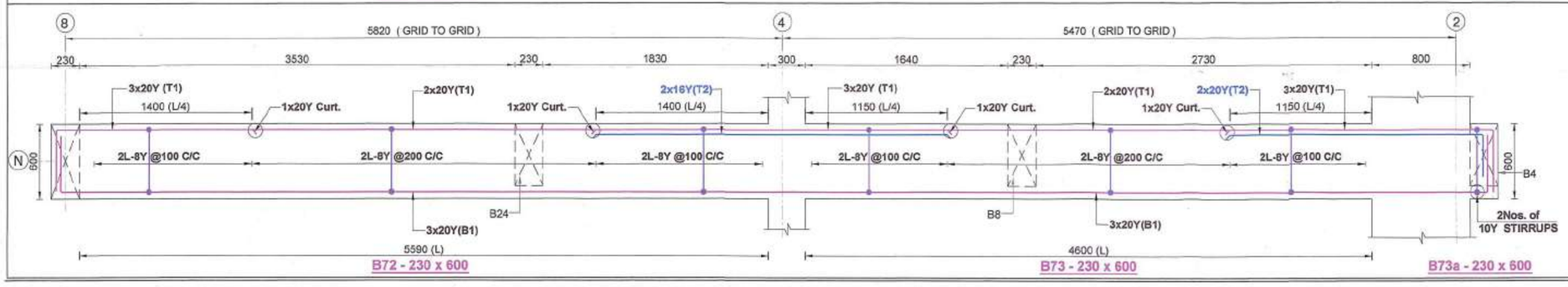
C/S OF DB3
(230 X 450)
D.S.B BY 50mm

SIGNATURE :-

V. JAGEN, B.E.,M.E.,(Struc), 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

DRAWING TITLE:-

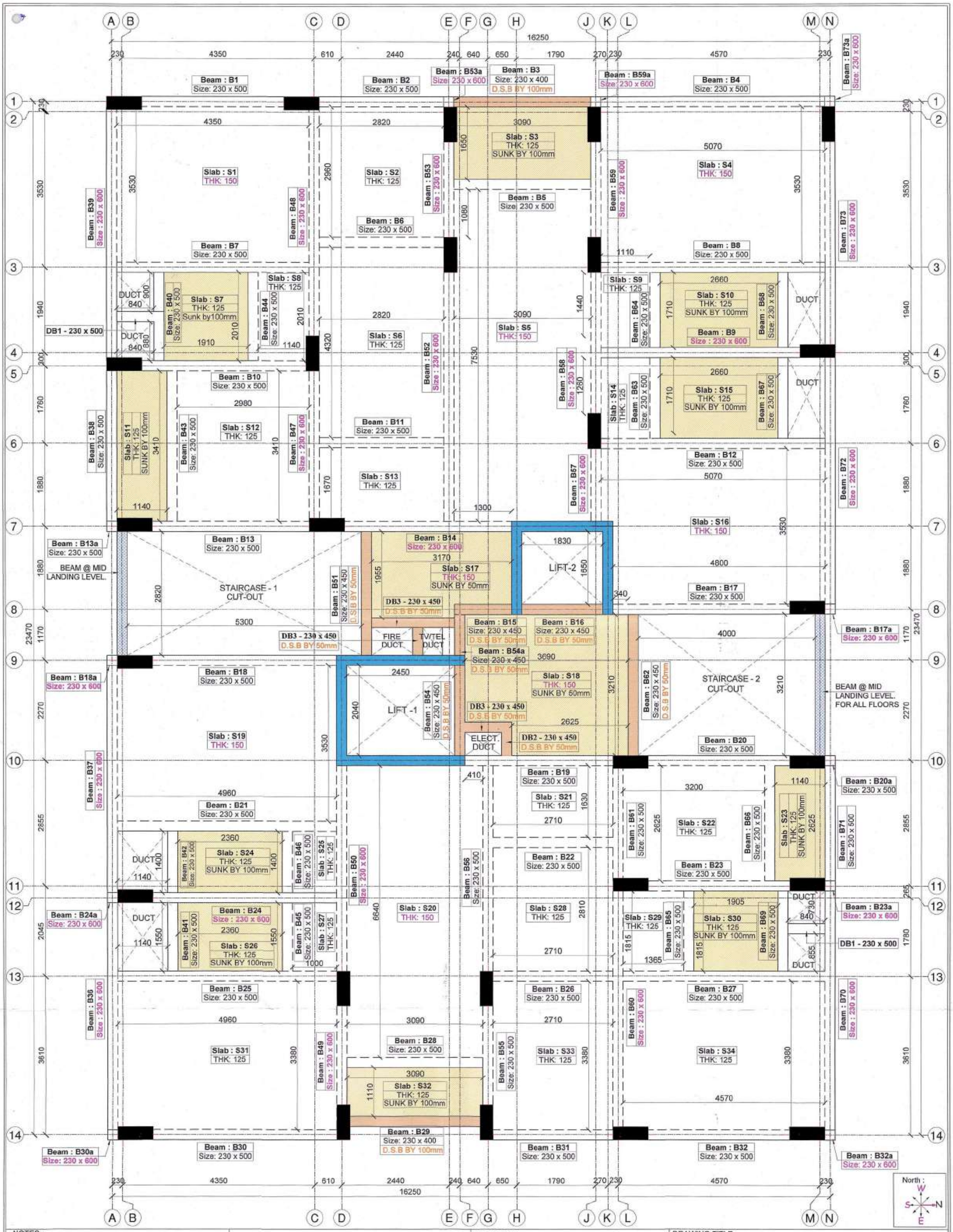
STILT FLOOR ROOF BEAM REINFORCEMENT DETAILS (SHEET 3 0F 3)



PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

ZONE: IX; DIVISION:- 119



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SIGNATURE :-

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
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Mobile: 9841269154

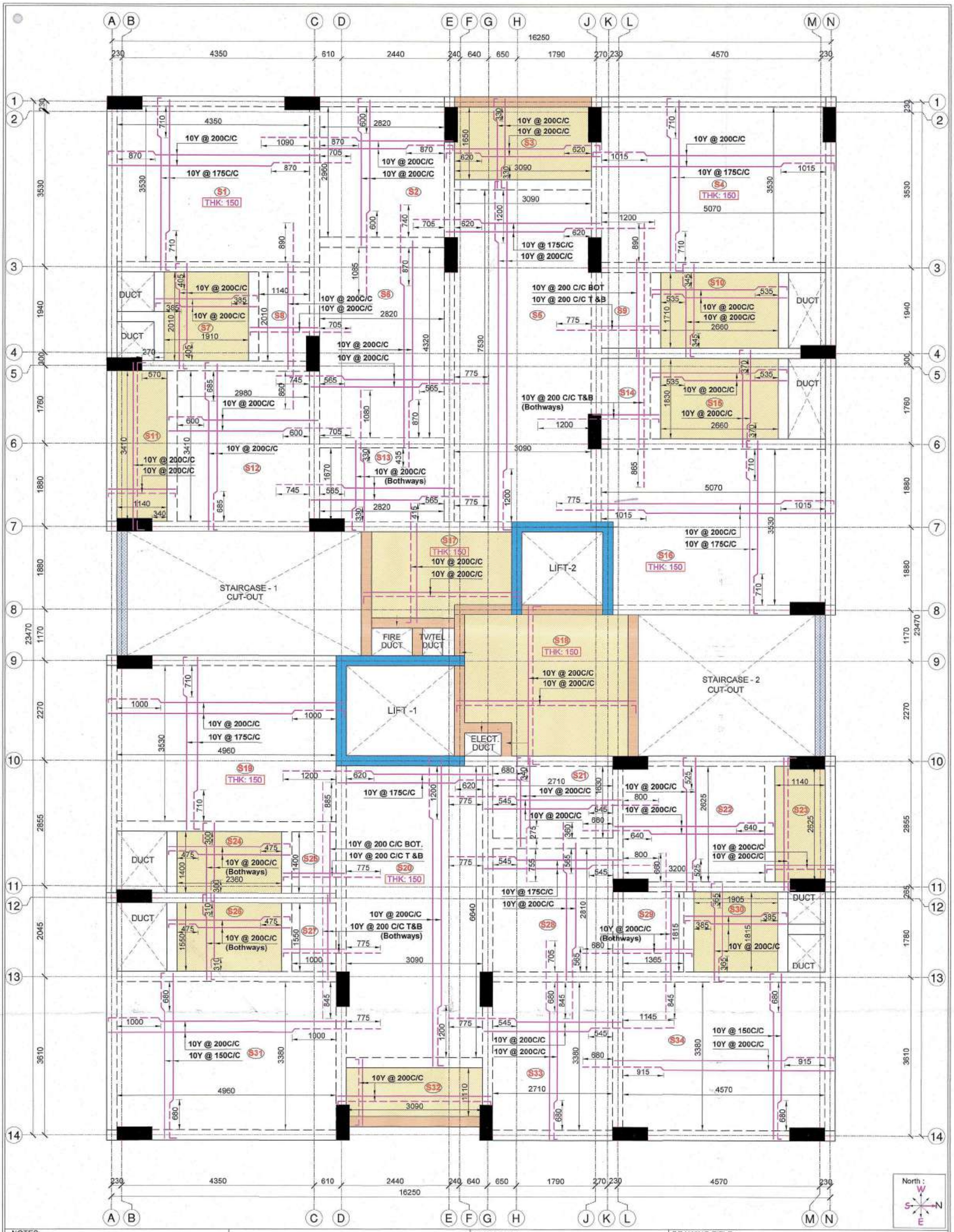
DRAWING TITLE:-

TYPICAL FLOOR ROOF BEAM FRAMING LAYOUT (1st TO 8th FLOOR ROOF)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

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SIGNATURE :-

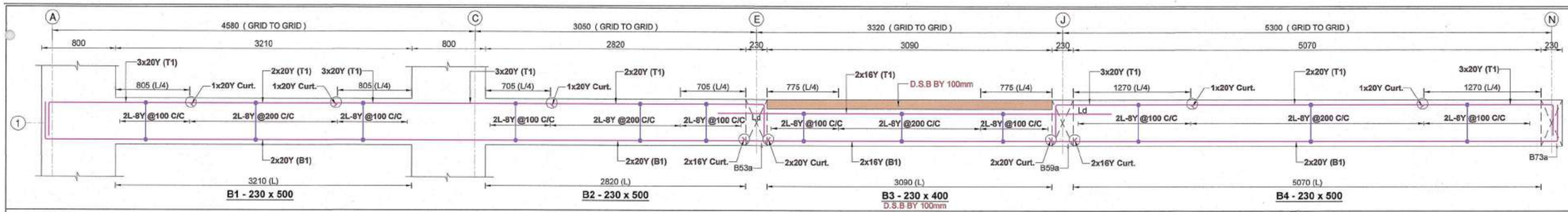
V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
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CHARTERED ENGINEER & APPROVED VALUER
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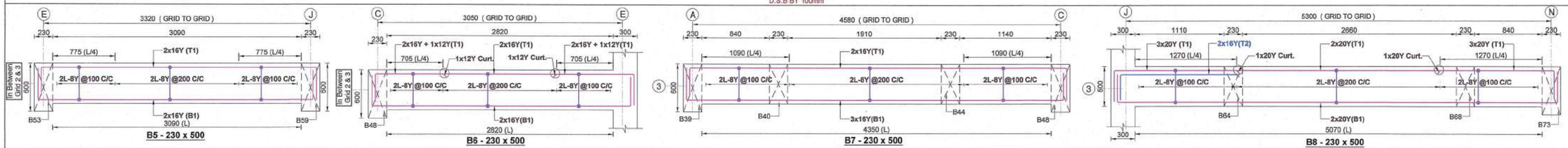
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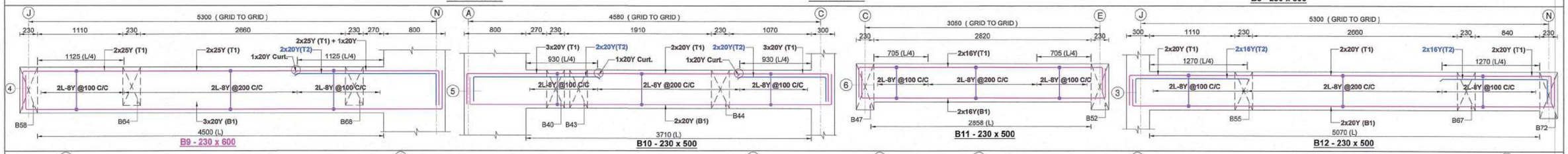
TYPICAL FLOOR ROOF SLAB LAYOUT (1st TO 8th FLOOR ROOF)

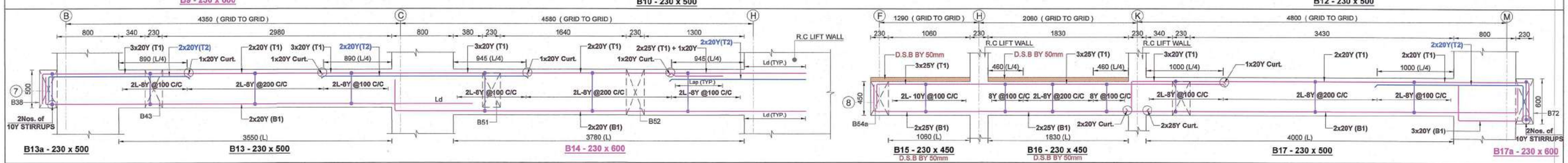
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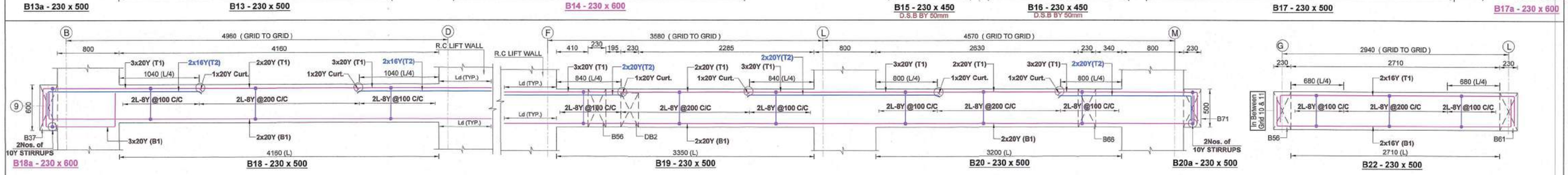
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.
ZONE: IX; DIVISION:- 119

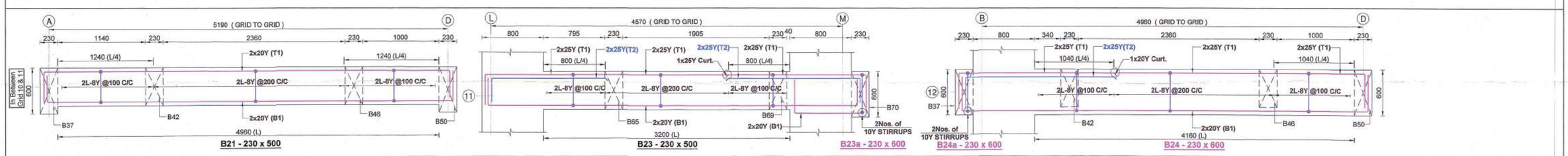


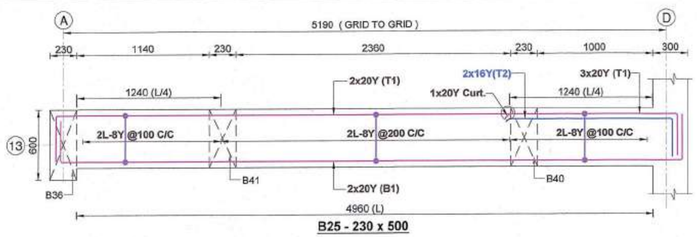












NOTES:

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2. CONCRETE MIX SHALL BE M40 FOR COLUMN & M25 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
   (ii) SLAB = 20mm
   (iii) BEAM = 30mm
   (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.

DRAWING TITLE:-

TYPICAL FLOOR ROOF BEAM REINFORCEMENT DETAILS (1st TO 8th FLOOR ROOF) (SHEET 1 OF 3)

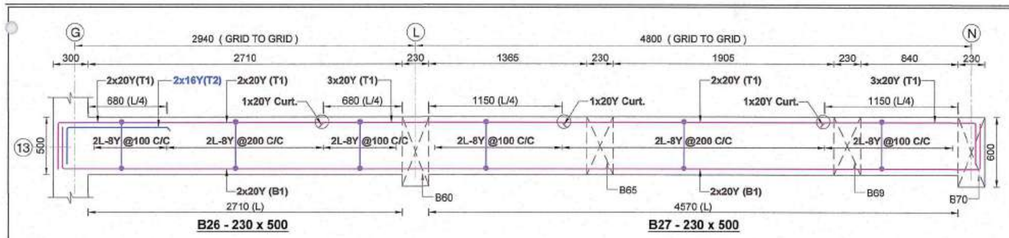
SIGNATURE :-

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 GAURAV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841289154

PROJECT:-

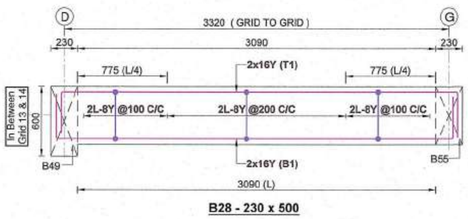
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

ZONE: IX; DIVISION:- 119

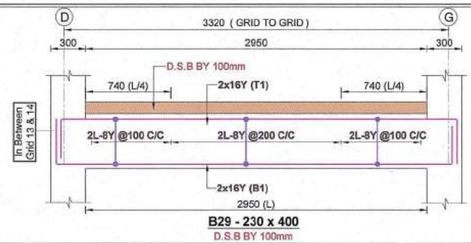


B26 - 230 x 500

B27 - 230 x 500

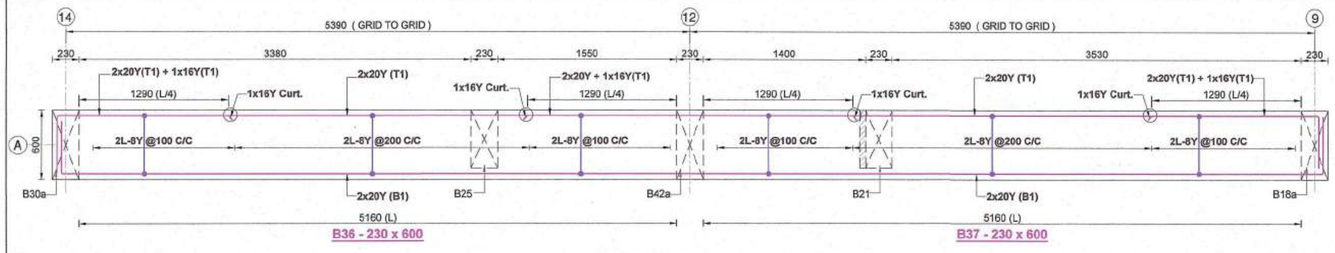


B28 - 230 x 500



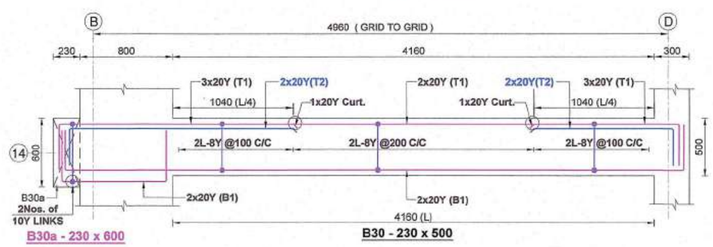
B29 - 230 x 400

D.S.B BY 100mm



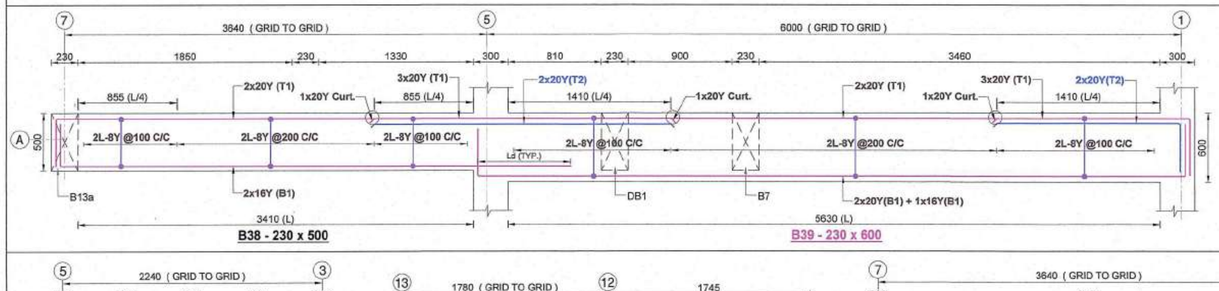
B36 - 230 x 600

B37 - 230 x 600



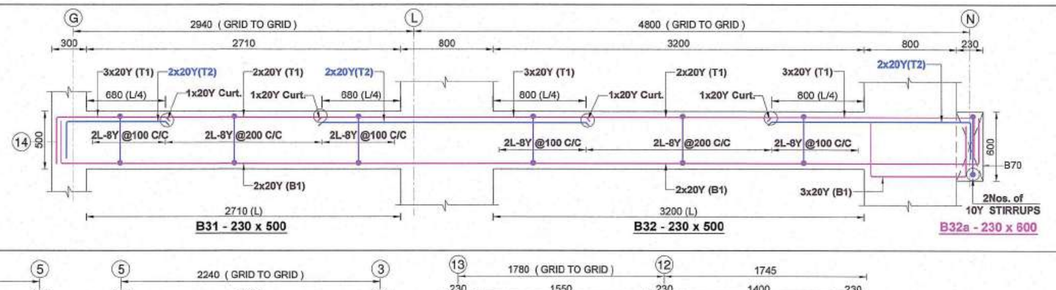
B30a - 230 x 600

B30 - 230 x 500



B38 - 230 x 500

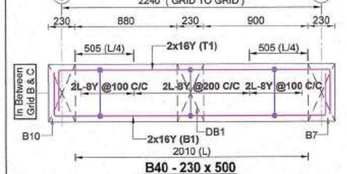
B39 - 230 x 600



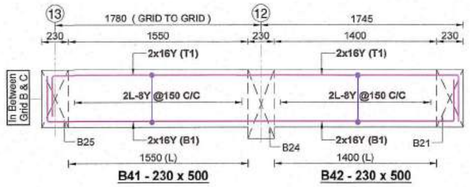
B31 - 230 x 500

B32 - 230 x 500

B32a - 230 x 600

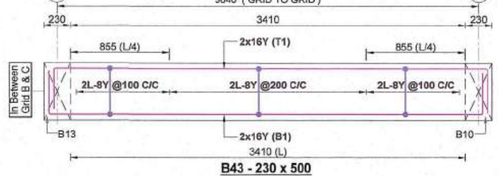


B40 - 230 x 500

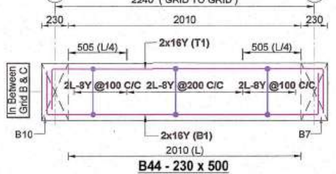


B41 - 230 x 500

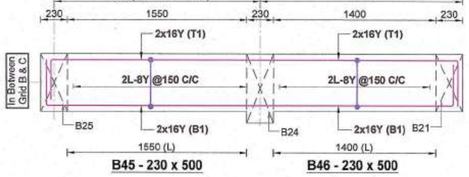
B42 - 230 x 500



B43 - 230 x 500

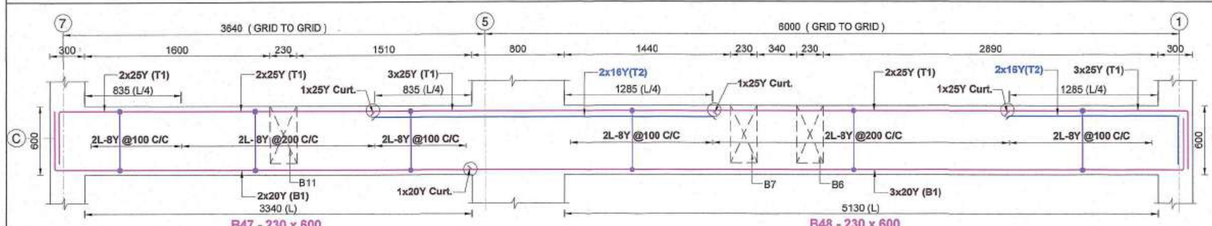


B44 - 230 x 500



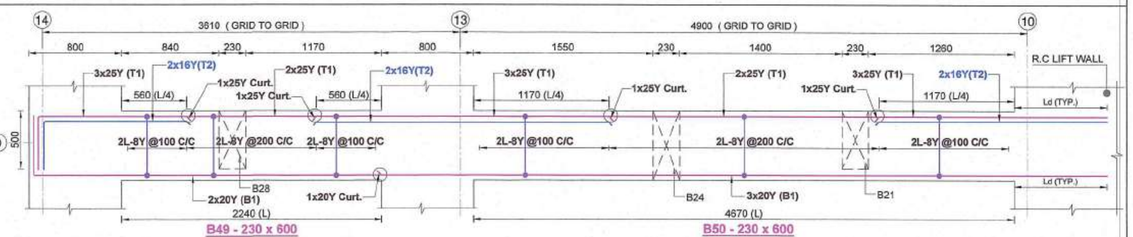
B45 - 230 x 500

B46 - 230 x 500



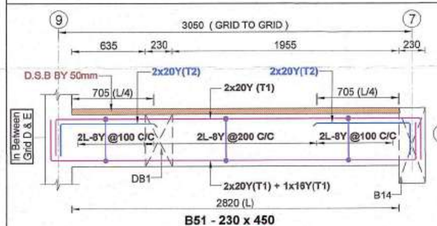
B47 - 230 x 600

B48 - 230 x 600



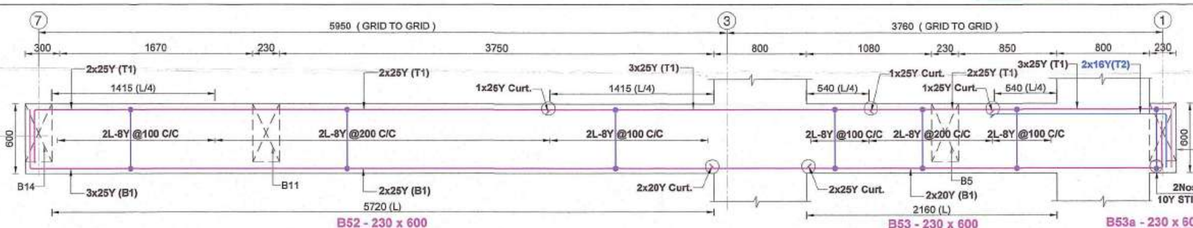
B49 - 230 x 600

B50 - 230 x 600



B51 - 230 x 450

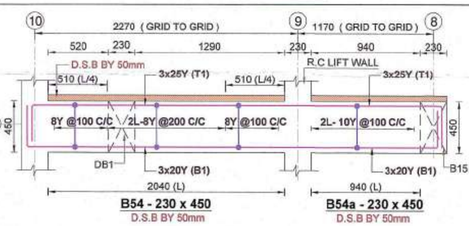
D.S.B BY 50mm



B52 - 230 x 600

B53 - 230 x 600

B53a - 230 x 600

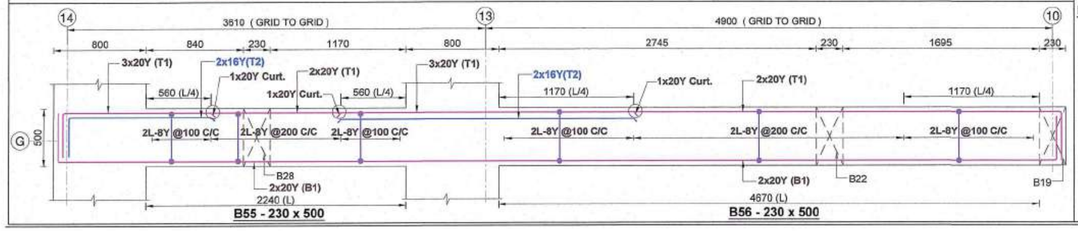


B54 - 230 x 450

D.S.B BY 50mm

B54a - 230 x 450

D.S.B BY 50mm



B55 - 230 x 500

B56 - 230 x 500

NOTES:

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   (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.

DRAWING TITLE:-

TYPICAL FLOOR ROOF BEAM REINFORCEMENT DETAILS (1st TO 8th FLOOR ROOF) (SHEET 2 OF 3)

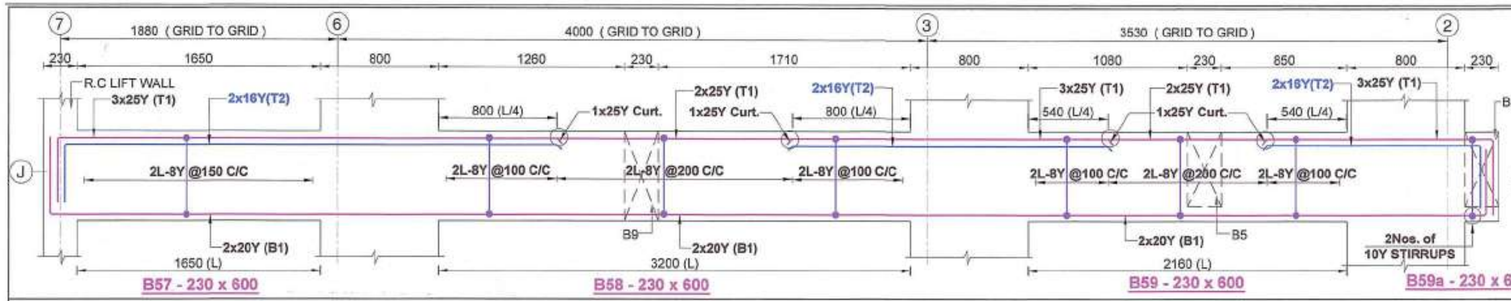
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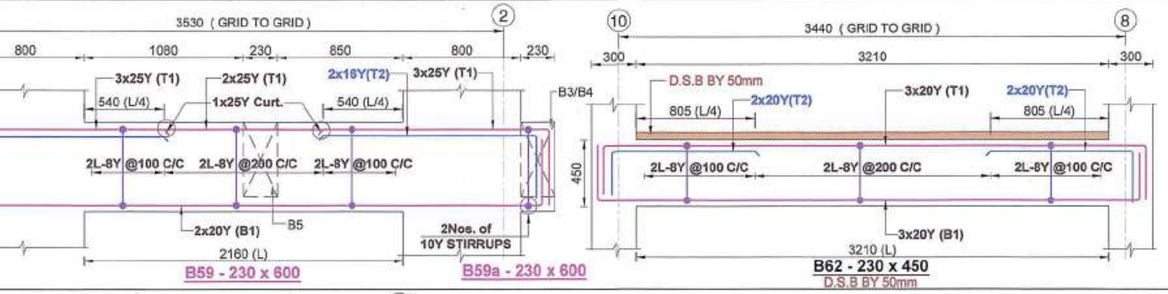
V. JAGEN, B.E.,M.E.,(Strct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2018/03/024, CA/2018/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269164

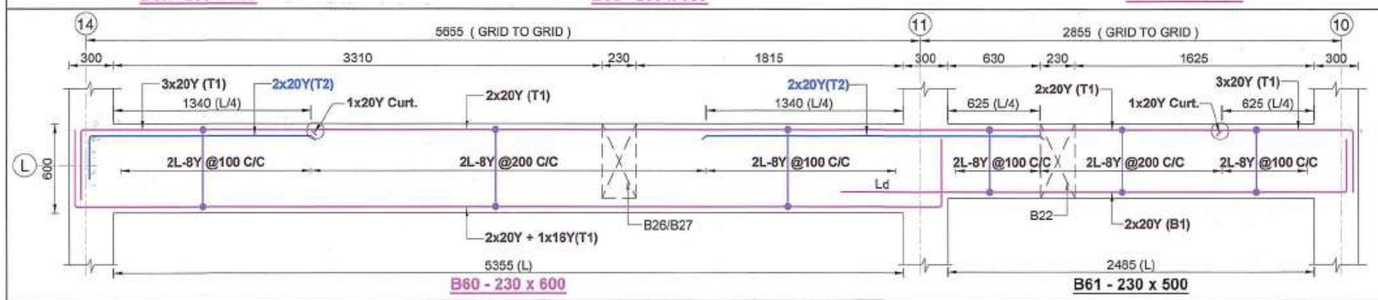
PROJECT:-

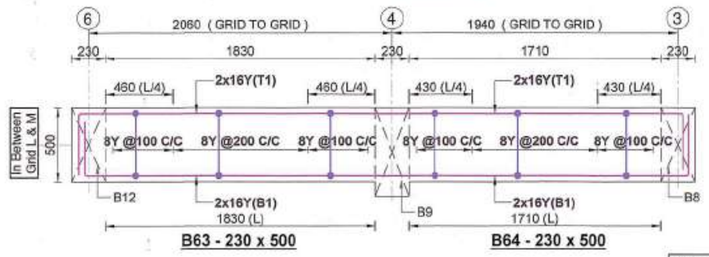
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

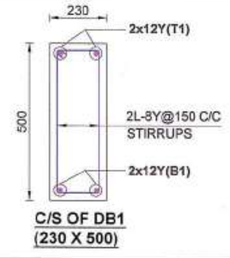
ZONE: IX; DIVISION:- 119

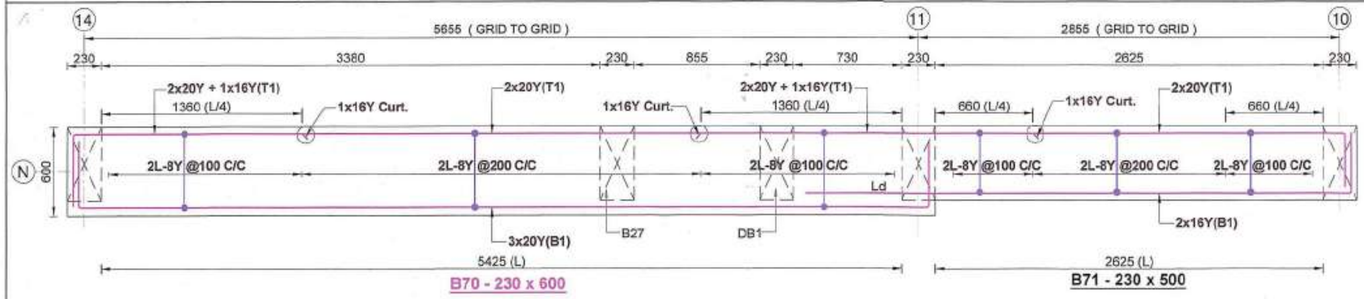


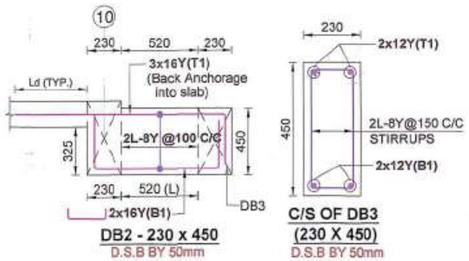


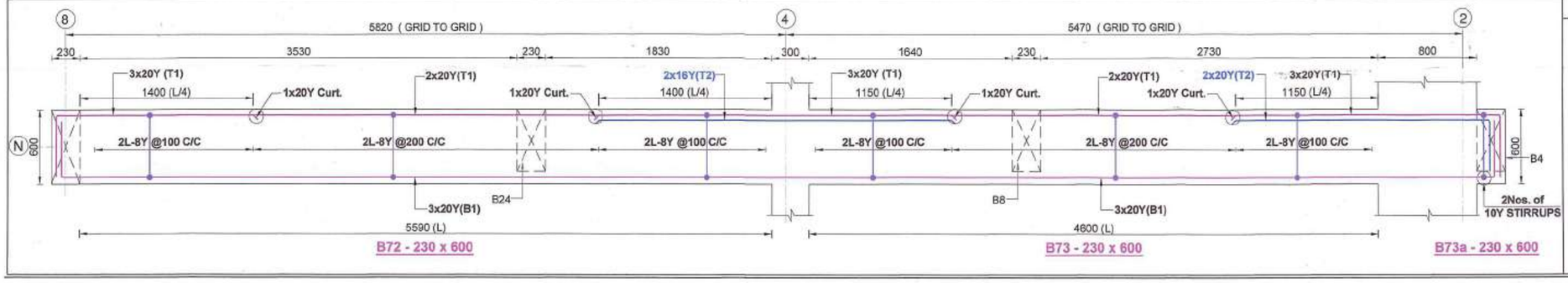












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   (iii) BEAM = 30mm
   (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.

SIGNATURE :-

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

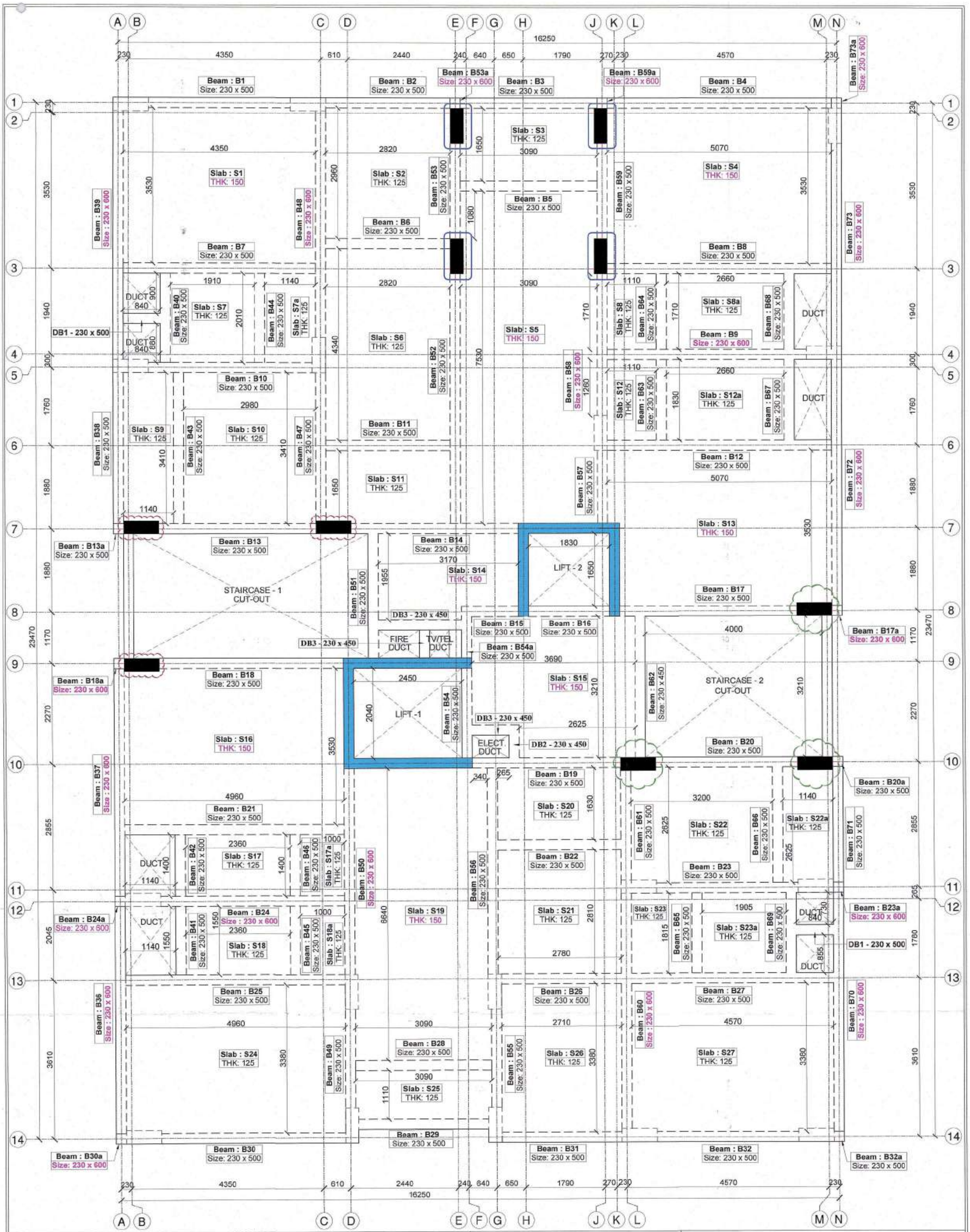
DRAWING TITLE:-

TYPICAL FLOOR ROOF BEAM REINFORCEMENT DETAILS (1st TO 8th FLOOR ROOF) (SHEET 3 OF 3)

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

ZONE: IX; DIVISION:- 119



MARKED COLUMNS ARE TERMINATED AT WATER TANK BASE SLAB LVL.,

MARKED COLUMNS ARE TERMINATED AT WATER TANK BASE SLAB LVL.,

MARKED COLUMNS ARE TERMINATED AT HEAD ROOM ROOF TOP LVL.,

NOTES:

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SIGNATURE :-

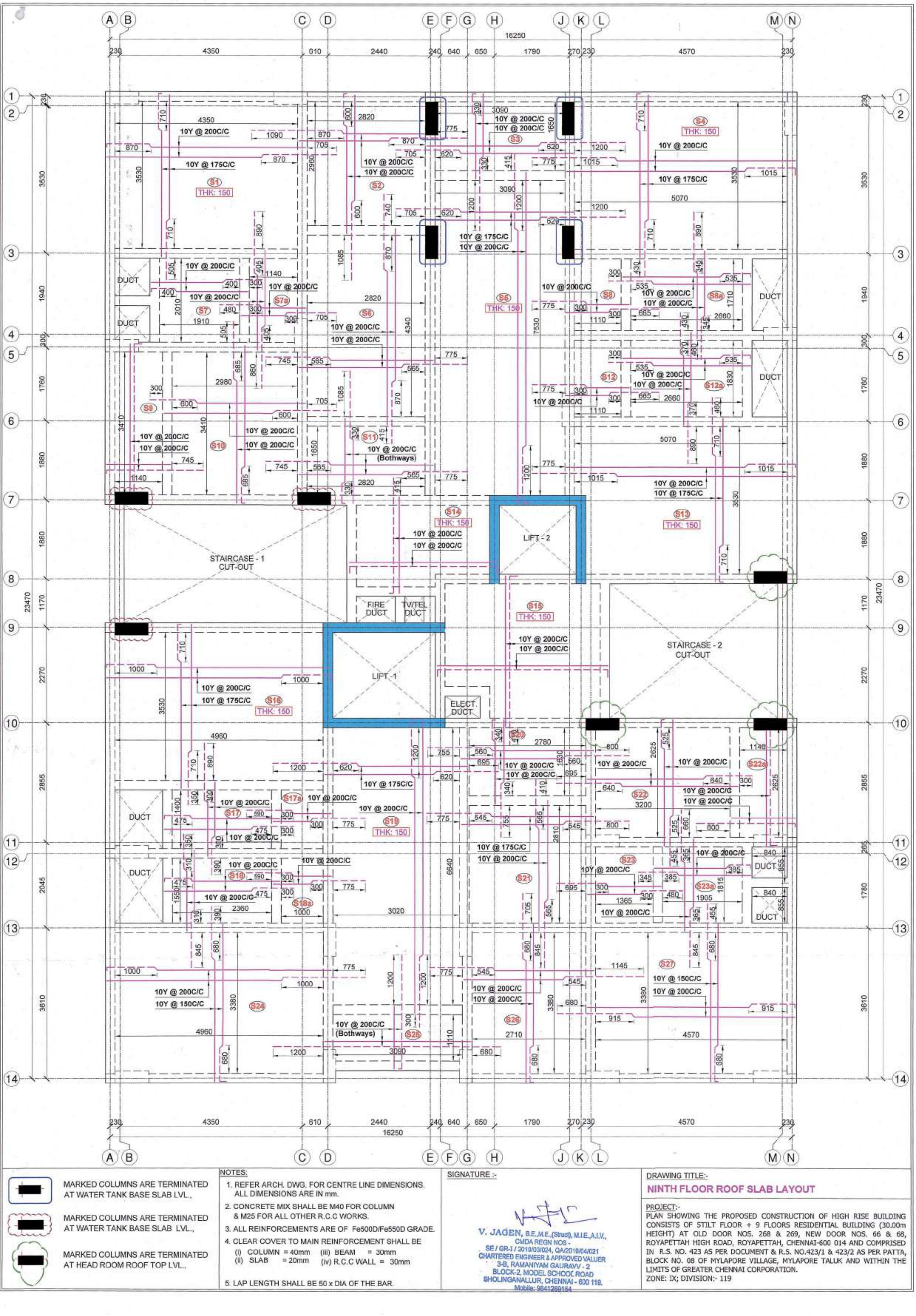
V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

DRAWING TITLE:-

NINTH FLOOR ROOF BEAM FRAMING LAYOUT

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.
ZONE: IX; DIVISION:- 119



MARKED COLUMNS ARE TERMINATED AT WATER TANK BASE SLAB LVL.,

MARKED COLUMNS ARE TERMINATED AT WATER TANK BASE SLAB LVL.,

MARKED COLUMNS ARE TERMINATED AT HEAD ROOM ROOF TOP LVL.,

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SIGNATURE :-

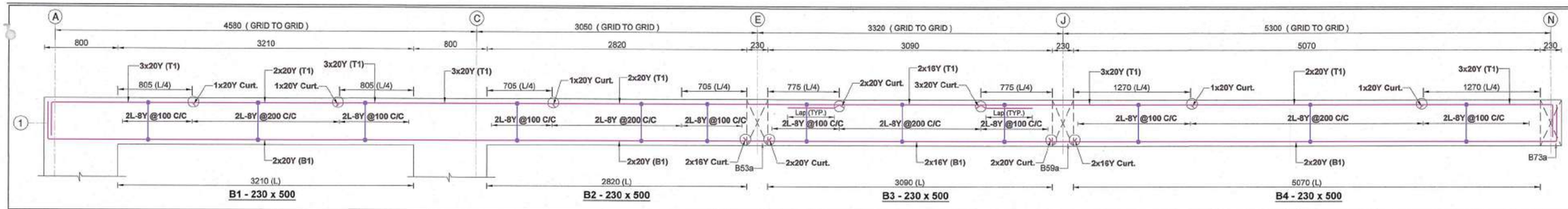
V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

DRAWING TITLE:-

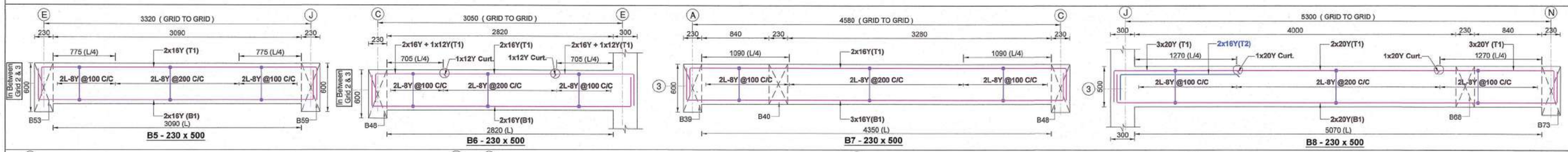
NINTH FLOOR ROOF SLAB LAYOUT

PROJECT:-

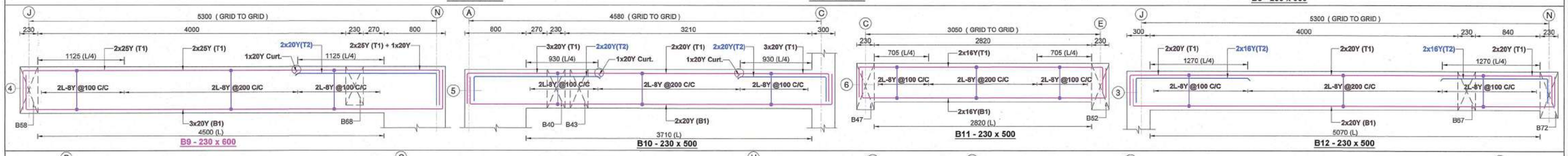
PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.
ZONE: IX; DIVISION:- 119



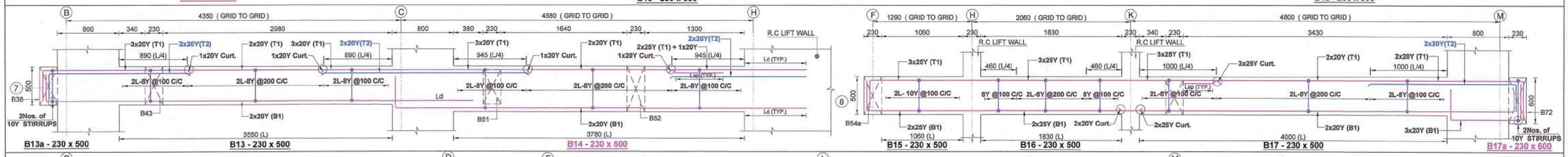
B1 - 230 x 500 | **B2 - 230 x 500** | **B3 - 230 x 500** | **B4 - 230 x 500**



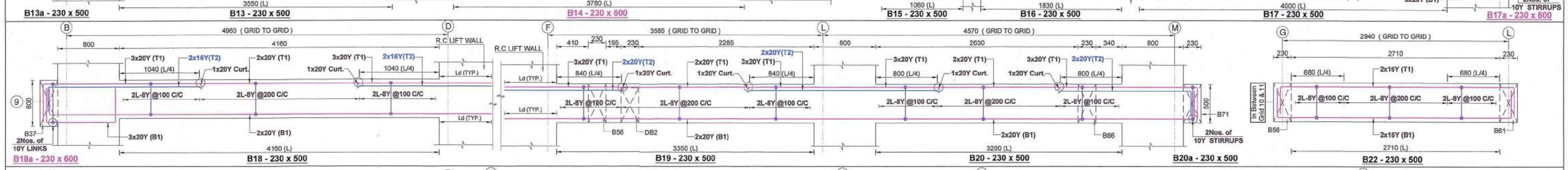
B5 - 230 x 500 | **B6 - 230 x 500** | **B7 - 230 x 500** | **B8 - 230 x 500**



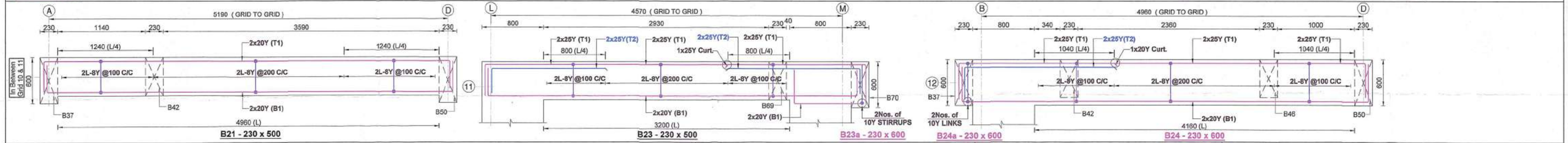
B9 - 230 x 600 | **B10 - 230 x 500** | **B11 - 230 x 500** | **B12 - 230 x 500**



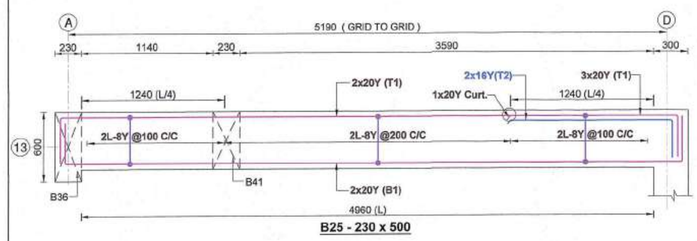
B13a - 230 x 500 | **B13 - 230 x 500** | **B14 - 230 x 600** | **B15 - 230 x 500** | **B16 - 230 x 500** | **B17 - 230 x 500** | **B17a - 230 x 600**



B18a - 230 x 600 | **B18 - 230 x 500** | **B19 - 230 x 500** | **B20 - 230 x 500** | **B20a - 230 x 500** | **B22 - 230 x 500**



B21 - 230 x 500 | **B23 - 230 x 500** | **B23a - 230 x 600** | **B24a - 230 x 600** | **B24 - 230 x 600**



B25 - 230 x 500

NOTES:

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   (ii) SLAB = 20mm
   (iii) BEAM = 30mm
   (iv) R.C.C WALL = 30mm
5. LAP LENGTH SHALL BE 50 x DIA OF THE BAR.

SIGNATURE :-

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

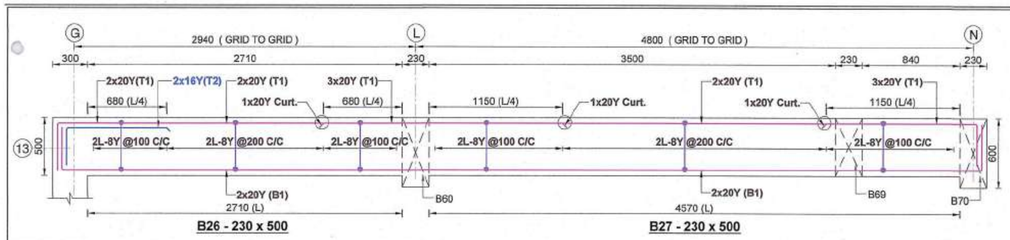
DRAWING TITLE:-

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

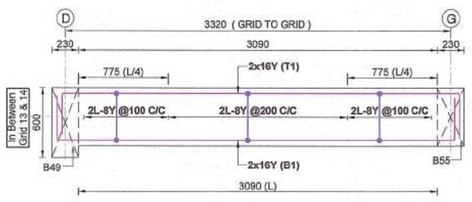
PROJECT:-

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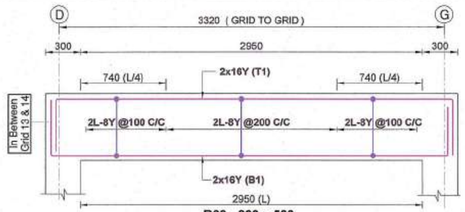
ZONE: IX; DIVISION:- 119



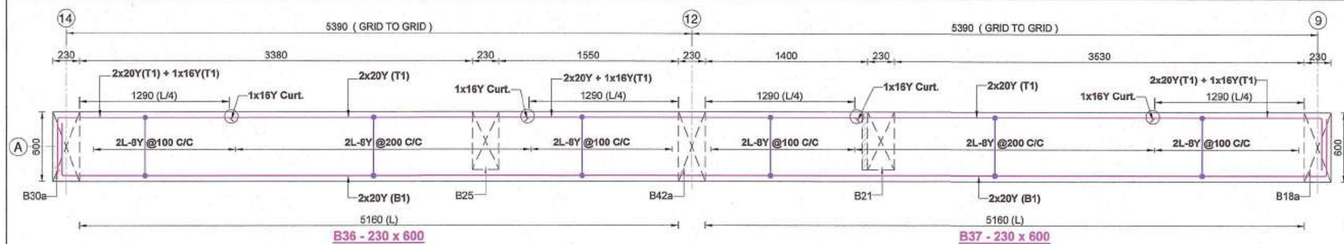
B26 - 230 x 500 B27 - 230 x 500



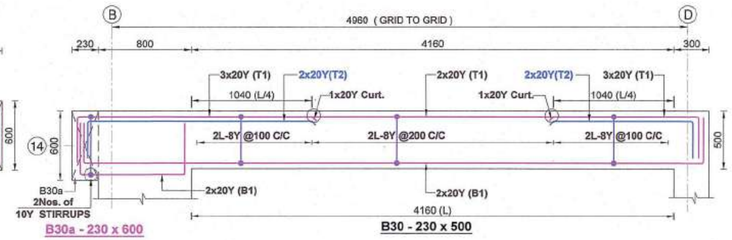
B28 - 230 x 500



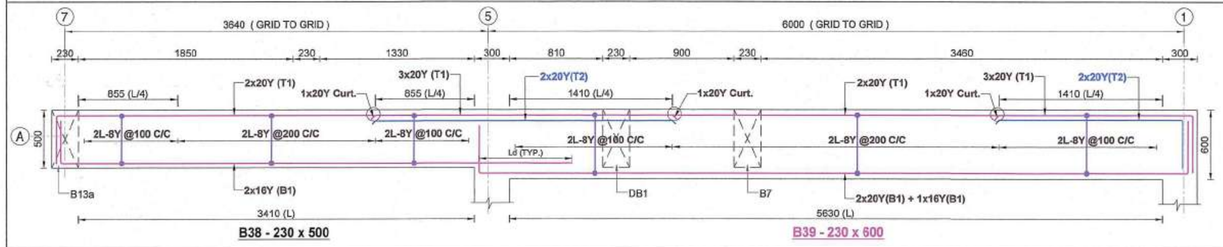
B29 - 230 x 500



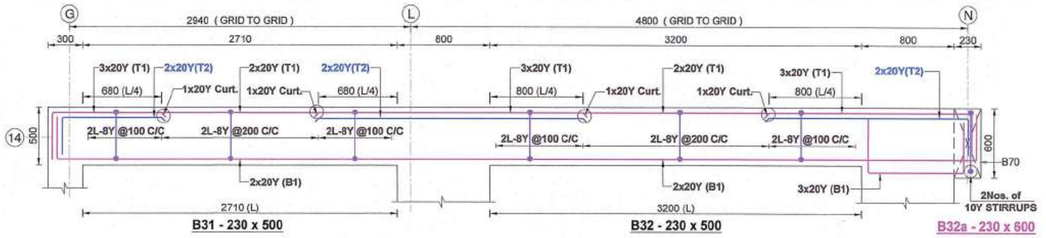
B36 - 230 x 600 B37 - 230 x 600



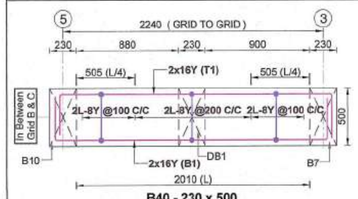
B30a - 230 x 600 B30 - 230 x 500



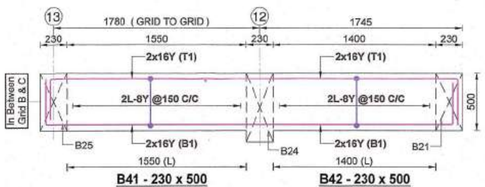
B38 - 230 x 500 B39 - 230 x 600



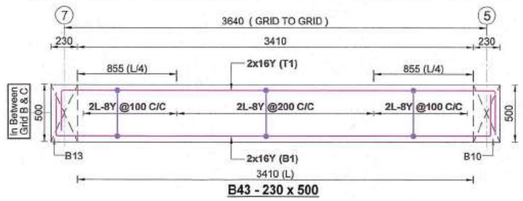
B31 - 230 x 500 B32 - 230 x 500 B32a - 230 x 600



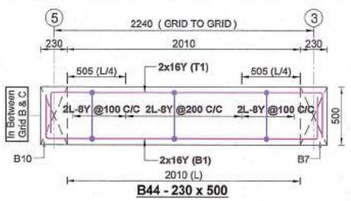
B40 - 230 x 500



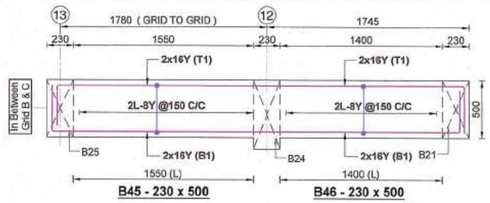
B41 - 230 x 500 B42 - 230 x 500



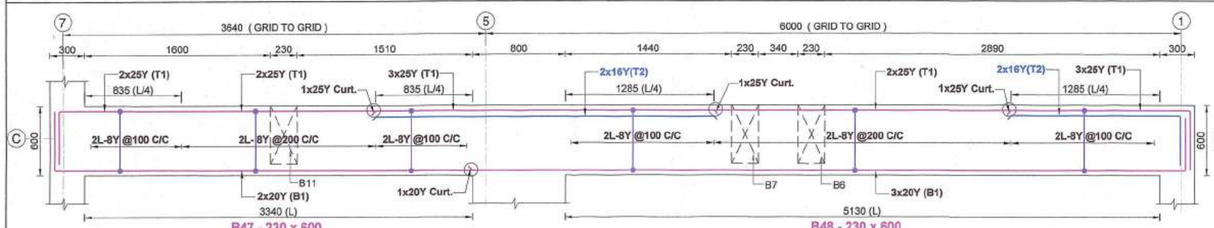
B43 - 230 x 500



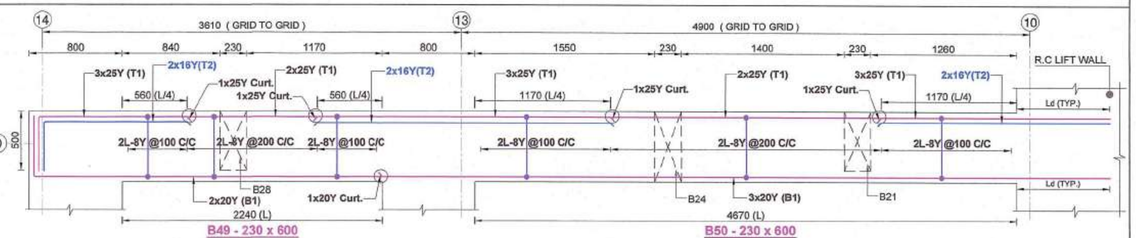
B44 - 230 x 500



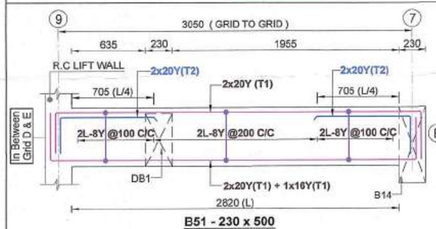
B45 - 230 x 500 B46 - 230 x 500



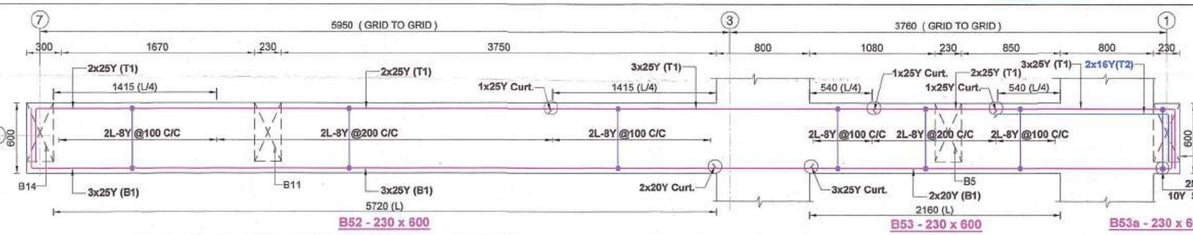
B47 - 230 x 600 B48 - 230 x 600



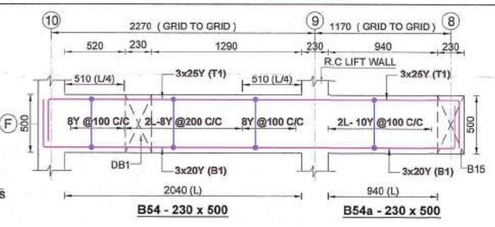
B49 - 230 x 600 B50 - 230 x 600



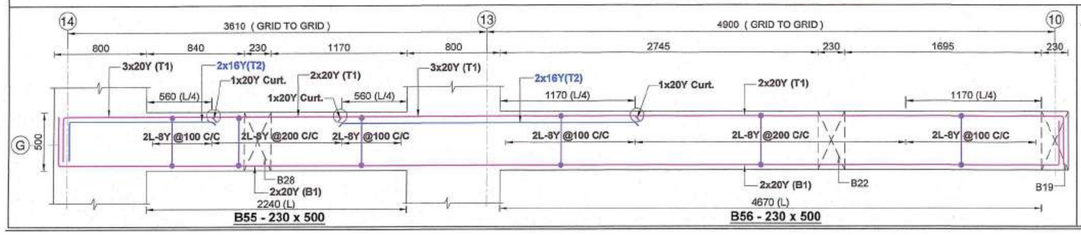
B51 - 230 x 500



B52 - 230 x 600 B53 - 230 x 600 B53a - 230 x 600



B54 - 230 x 500 B54a - 230 x 500



B55 - 230 x 500 B56 - 230 x 500

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DRAWING TITLE:-

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

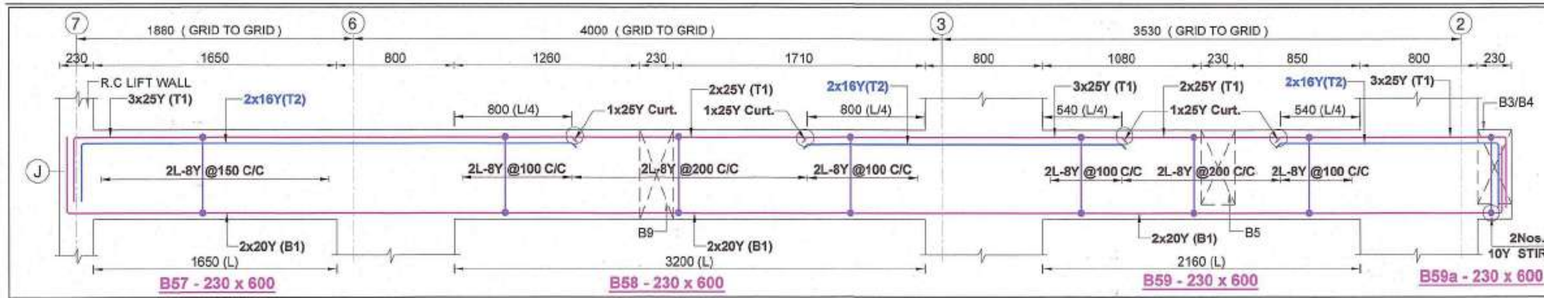
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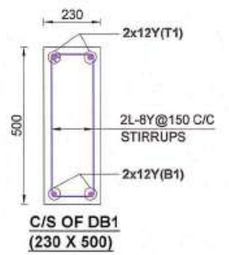
V. JAGEN, B.E.M.E.,(Strucl), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2018/03/004, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
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Mobile: 9841269154

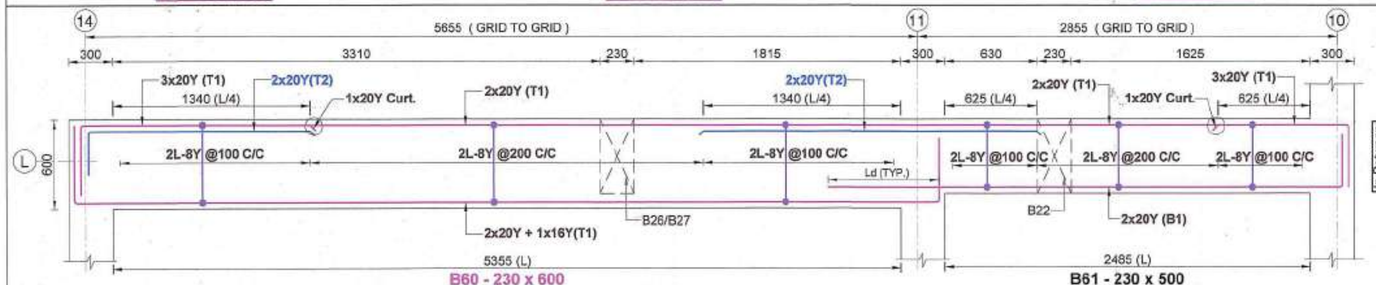
PROJECT:-

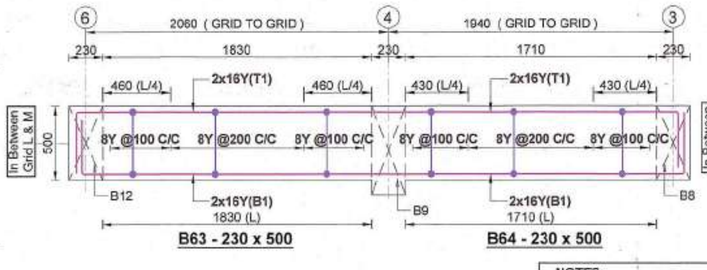
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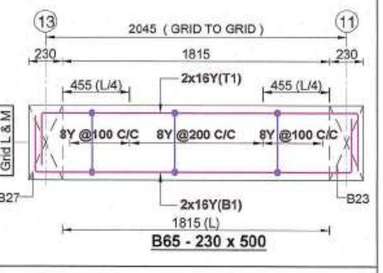
ZONE: IX; DIVISION:- 119

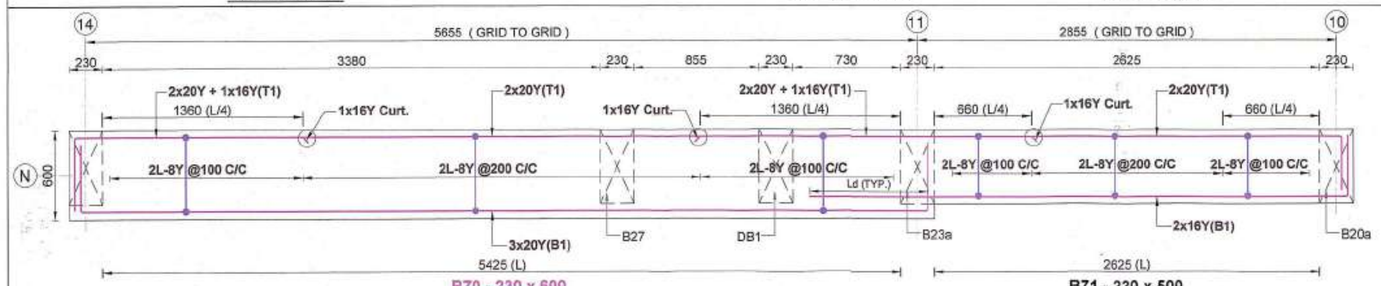


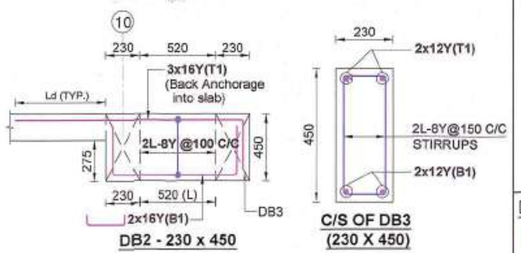












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CMDA REGN NOS :-
SE / GR-I / 2019/03/024, CA/2018/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

DRAWING TITLE:-

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

PROJECT:-

PLAN SHOWING THE PROPOSED CONSTRUCTION OF HIGH RISE BUILDING CONSISTS OF STILT FLOOR + 9 FLOORS RESIDENTIAL BUILDING (30.00m HEIGHT) AT OLD DOOR NOS. 268 & 269, NEW DOOR NOS. 66 & 68, ROYAPETTAH HIGH ROAD, ROYAPETTAH, CHENNAI-600 014 AND COMPRISED IN R.S. NO. 423 AS PER DOCUMENT & R.S. NO.423/1 & 423/2 AS PER PATTA, BLOCK NO. 08 OF MYLAPORE VILLAGE, MYLAPORE TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

ZONE: IX; DIVISION:- 119

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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OMR Thoraipakkam,
Chennai 600 097, India
hello@verified.realestate
+91 9996 12 9996

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.