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SRI RATHNA ASSOCIATES

Er.S.Pradeep,ME.,

STABILITY CERTIFICATE

1. The detailed engineering and structure design of the proposed building comprising of **Stilt, First, Second, Third, Fourth, Fifth floor & Terrace floor** of Site no: **17,18 & 19 in T.S.no:129,130 &132** at **Sri Ragavendra Nagar of vilankurichi village, East zone, Coimbatore north Taluk, Coimbatore Corporation and District, and Total 19 dwellings** has been done by me/us based on the report of Geotechnical investigation (soil test) done by **GEODESIGN INDIA PRIVATE LIMITED Coimbatore-641038,** Report No **GEO-G-221-2024-25** Dated **08.11.2024-09.11.2024** and considering the functional requirement of the building.

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

3. I/We further certify that:

(i) The minimum grade of concrete is **M20.**

(ii) The design and analysis has been done using the code of practice for plain and reinforce concrete as per IS 456, design loads as per IS Codes No **456** and design of earthquake resistant structure as per IS code **No.456**

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

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28.11.2024 Stamp and Signature

Ph.No: +91 96 55 00 80 64
srirathnaassociates@gmail.com
55/2A, Near Ganapathi Fire Service, FCI Road,
Gandhi Maa Nagar, Ganapathy, Coimbatore- 641006.

STRUCTURAL DESIGN REPORT

PROPOSED RESIDENTIAL APARTMENT BUILDING IN T.S.NOS: 129, 130 & 132, WARD NO:Y, BLOCK NO:16 AT VILANKURICHI VILLAGE, COIMBATORE EAST ZONE, COIMBATORE NORTH TALUK, COIMBATORE CORPORATION

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1.1 FOREWORD

1.1.1 -DescriptionofProject

PROPOSED RESIDENTIAL APARTMENT BUILDING IN T.S.NOS: 129, 130 & 132, WARD NO:Y, BLOCK NO:16 AT VILANKURICHI VILLAGE, COIMBATORE EAST ZONE, COIMBATORE NORTH TALUK, COIMBATORE CORPORATION.

1.1.2 –ObjectiveoftheReport.

Theobjectiveofthereportistoprovideandfurnishdetailsrelatedto Projectandstructuralconsid erations.

1.1.3 –ScopeoftheReport.

The Structural Report covers the complete Structural Elements design(column)considerationsforanalysisoflateralloads&gravityloads.

1.2 CODES,STANDARDS

ANDREFERENCESStatutoryRequirements:

Thedesignofstructuralandotherbuildingserviceswillcomplywiththefollowingrequirements:

- NationalBuildingCode
- TheBuildingRegulations
- TheEnvironmentalProtectionActinliaisonwiththeEnvironmentalAgency.
- Firepreventionanddetectionincompliancewiththelocal FireRegulation.

DESIGNSTANDARDS:

Specificapplicablecodesandstandardswillbeidentifiedandadopted in t h e designphilosophiesasappropriatetothestructuralelements.The latesteditionsoftheCod esandStandardswillbeusedindesigns.Alldesignworkshallbebasedon IndianStandards andCodes withlatest revision,withamendments ifany, as on date.**Loads:**

IS:875-

1893CodeofPracticefordesignloads(otherthanearthquake)for Buildingsandstructure(Allpa rts)

IS:1893-2016Criteriaforearthquakeresistantdesignofstructure

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Foundations:

IS:1080-1985(2016) Code of Practice for design and construction of shallowfoundationsonsoils(otherthanraft,ringandshell)

IS:1904-1986(2015)CodeofPracticefordesignandconstructionoffoundationsinsoilsgeneralrequirement

IS:2950-1981(2013)Codeof Practice for design and construction of raftfoundations

IS:2974-1998(2013/2015)CodeofPracticefordesignandconstructionofmachinefoundations(Allparts)

IS:8009-1976/1980(2013/2015) Code of Practice for calculation of settlement offoundations(Allparts)

RCC:

IS:456-2000:CodeofPracticeforplainandreinforcedconcreteIS:458-1988Specificationforprecastconcretepipes

IS:3370-2009CodeofPracticeforconcrete structuresforthestorageofliquids:(Allparts)

IS:4326-2013CodeofPracticeforearthquakeresistantdesignandconstructionofbuildings

IS:5525-1969(2013) Recommendation for detailing of reinforced concrete works IS:1786-2008Specificationforhighstrengthdeformedsteelbarsandwiresforconcretereinforcement

IS:10262-2009Recommendedguidelinesforconcretemixdesign

IS:1893 (Part-1)-2016 Criteria for earthquake resistant design of structures(Generalprovisionsandbuilding).

IS:13920-1993:Ductiledetailingofreinforcedconcretestructures.

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Miscellaneous:

IS:432(part 2)-1995Specificationformildsteelandmediumtensilesteel barsandhard-drawnsteelwireforconcretereinforcement

IS:6313(partII)-2001Standardsforanti-termitetreatment

IS:1905-1998CodeofPracticeforstructuraluseofunreinforcedmasonry

IS:3067-1995CodeofPracticeforgeneraldesigndetailsandpreparatoryworksfordampproofingandwaterproofingofbuildings

SP:6-1998Handbookforstructuralengineers(allparts)SP:7-2005NationalBuildingCodeofIndia

SP:16-1999DesignAidsforreinforcedconcretetoIS:456-1978

SP:22-1982Explanatoryhandbookoncodesforearthquake engineering(IS:1982-1975andIS:4326-1976)

SP:24-1983ExplanatoryhandbookonIndianStandardcodeofPracticeforplainandreinforcedconcrete

SP:34-1987Handbookofconcretereinforcementanddetailing(SCIP)

WhereverappropriateIndianRegulationdoesnotexistforanyparticularitem,appropriateBritishstandardswillbeused.

Material:

IS:269-2015SpecificationforOrdinary,rapidhardening andlow heat Portlandcement.

IS:455-1995SpecificationforPortlandblastfurnaceslagcement.IS:1489-1991SpecificationforPortlandpozzolanacement

IS:4031-1991MethodofphysicaltestsforPortlandcement.

IS:383-2016Specificationforcoarseandfineaggregatesfromnaturalsourcesforconcrete.

IS:516–1999Methodoftestforstrengthofconcrete.

IS:1199-1999Methodofsamplingandanalysisofconcrete.

IS:1566-2000Specificationforplainharddrawnsteelwirefabricforconcretereinforcement.

IS:4990-1998Specificationforplywoodforconcreteshutteringworks.

IS:2645-1999Specificationforintegralcementwaterproofingcompounds.

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1.3 –DESCRIPTIONOFSTRUCTURE

1.3.1 –Location

T.S.NOS: 129, 130 & 132, WARD NO:Y, BLOCK NO:16 AT VILANKURICHI VILLAGE, COIMBATORE EAST ZONE, COIMBATORE NORTH TALUK, COIMBATORE CORPORATION

1.3.2 –BuildingDescription.

TheResidentialBuildingConsistsofthefollowing:Kindlystudythearchitecturaldrawingsforbe tterunderstanding

- Stilt + 5 floors + Terrace

1.3.3 –StructuralArrangement:

- TheStructuralSystemisaRCCframedStructurecomprisingofC o nventional RCC Slab& RCC BeamsupportedbyRCstructuralcolumns/wallswithPrimary&Secondarybeams.Flatslabsbeams and Columns areconsideredtoactasarigiddiaphragmtotransferthelateralforcestothelateralloadresisting elements.

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1.4 –DESIGNAPPROACH

1.4.1 –

DesigndataLoads:

Deadloads:

Dead load shall include weight of all structural and Architectural components. Self-weightofthematerialsshallbecalculatedonthebasisofunitweightsgiveninIS:875.

- Floorfinishof75mmthickness
  Forfloors :180kg/sq.m(1.8kN/sq.m)
- Falseceiling/ducting+Sprinklers :20kg/sq.m(0.2kN/sq.m)
- DryPartition :100kg/sq.m(1.0kN/sq.m)
- Self-weightofPlainconcrete :2400kg/cu.m(24kN/cu.m)
- Self-weightofRCC :2500kg/cu.m(25kN/cu.m)
- Solidblockmasonry :2500kg/cu.m(25kN/cu.m)
- Soil(Dry) :1800kg/cu.m(18KN/cu.m)
- Soil(Wet) :2000kg/cu.m(20kN/cu.m)
- Water :1000kg/cu.m(10kN/cu.m)

Liveloads:

ThesuperimposedloadsshallbecalculatedinaccordancewithIS:875(Part-2)basedon Occupancy Classification. For multiple occupancies of use in the buildingshallbereferredwith the other appropriate comparable occupancy classification as per Table.1ofIS875(Part-2)-1987.

Following live loads are considered while designing the structural elements apart fromthedead loads

Floors

- Typicalfloors :200kg/sq.m(2.0kN/sq.m)
- Terrace :150kg/sq.m(1.5kN/sq.m)

Actualloadingduetoliftsloadsshall be ascertained and design live loads aresuitablymodified(ifrequired)andconsidered.

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Loadcalculation:

RoofSlabLoad		Thicknessinm	UnitWeight-kN/m3	Load	
DeadLoad-Floor					
Falseceiling				0.200	kN/sq.m
Partition				1	
Floorfinishes		0.075	24	1.800	kN/sq.m
			Total=	**3**	kN/sq.m
LiveLoad-Floor		a)For Typicalfloors		**2.0**	kN/sq.m
LiveLoad–Roofaccessible				**1.5**	kN/sq.m

Allsunkenareasadditionalsunkenfillingloadof0.75kN/m^2isconsideredinDeadload.

200mmSolidBlockwallLoadonGradeBeam =(4.114-0.3)x0.2x25=19.1kN/mSolidBlockwall@Typicalfloor =(3-0.3)x0.2x25=13.5kN/m

Parapetwallloadonterrace =1.2x0.2x25=6.0kN/m

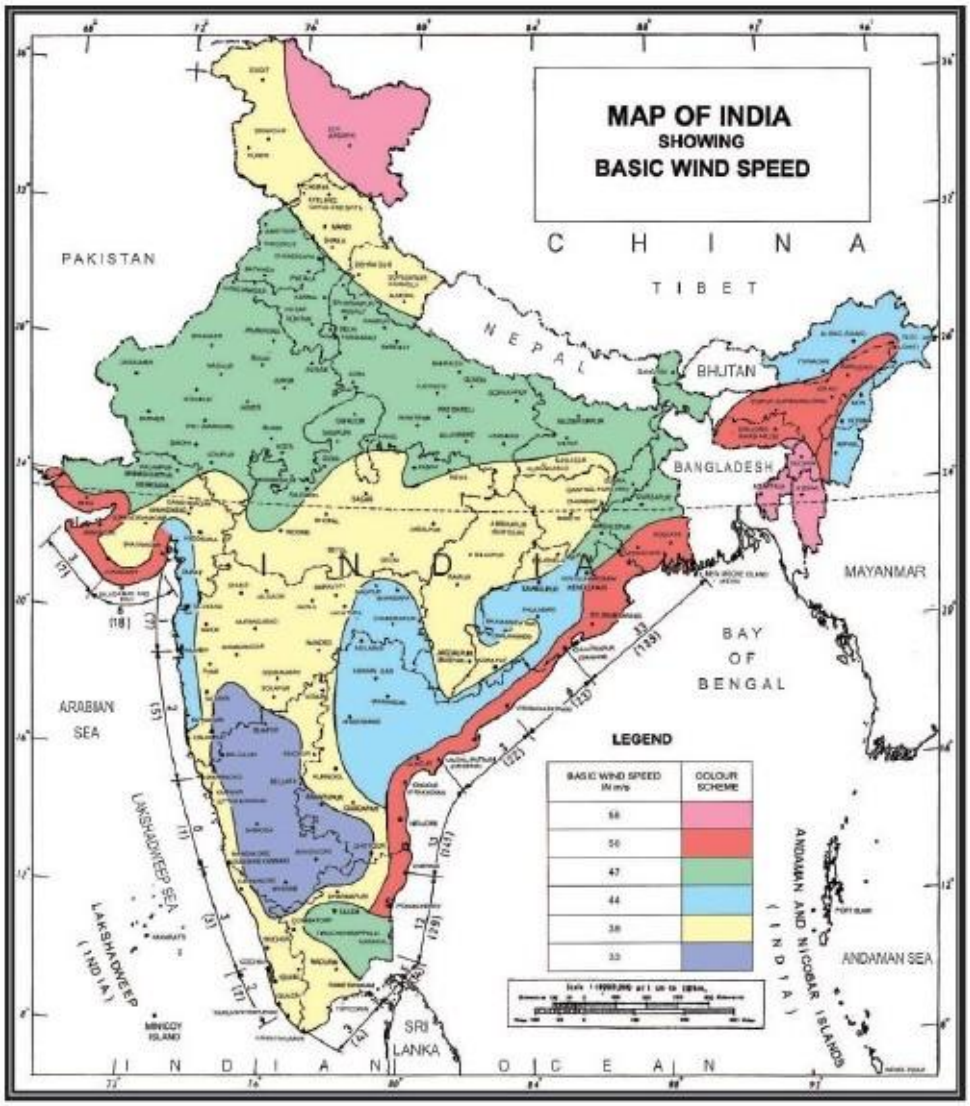
Headroomload =2.5x0.2x25=12.5kN/m

WindLoads

TheWindpressureshallbecalculatedinaccordancewithIS:875(Part-3)-2015.ForCoimbatore,thebasicwindspeedsareconsideredat39m/sec.

BasicWindSpeed	Vb	:39m/s
RiskCoefficient	k1	:1(k1correspondsto50years MeanProbableDesignLifeofStructure)
Terrain,height,structure sizefactor	k2	:Tosuittheheightofthestructureforterraincategory2
Topographyfactor	k3	:1.00
Cycloneregionfactor	k4	:1.00
Designmeanhourlywindspeed	Vh,d	:Vb×k2×k2×k3Xk4
Designhourlywindpressure	pd	:0.6×Vz²

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SeismicForces:

Coimbatore falls under seismic zone III as per IS 1893-2016 (Part 1) (Sixth Revision) andhasthe followingfactorstobe considered for designs. Ductile detailing is required forthestructuralelements.

(Pleasereferattachedmap)

SeismicZone	:III
SeismicZonefactor(Z)	:0.16(AsperTable3-IS:1893-2016CL-6.4.2)
Designhorizontalseismiccoefficient(Ah)	:(Z/2)*(Sa/g)*(I/R)
Importancefactor(I)	:1.5(RefTable8-IS:1893-2016CL7.2.3)
ResponsereductionFactor(R)	:4(RefTable9(iv)-IS-1893-2016CL7.2.6)
Soiltype	:1(WeightedaverageofNvalueofsoillayersfrom depthoffoundingisconsidered.)
DampingRatioforRCC	:5%

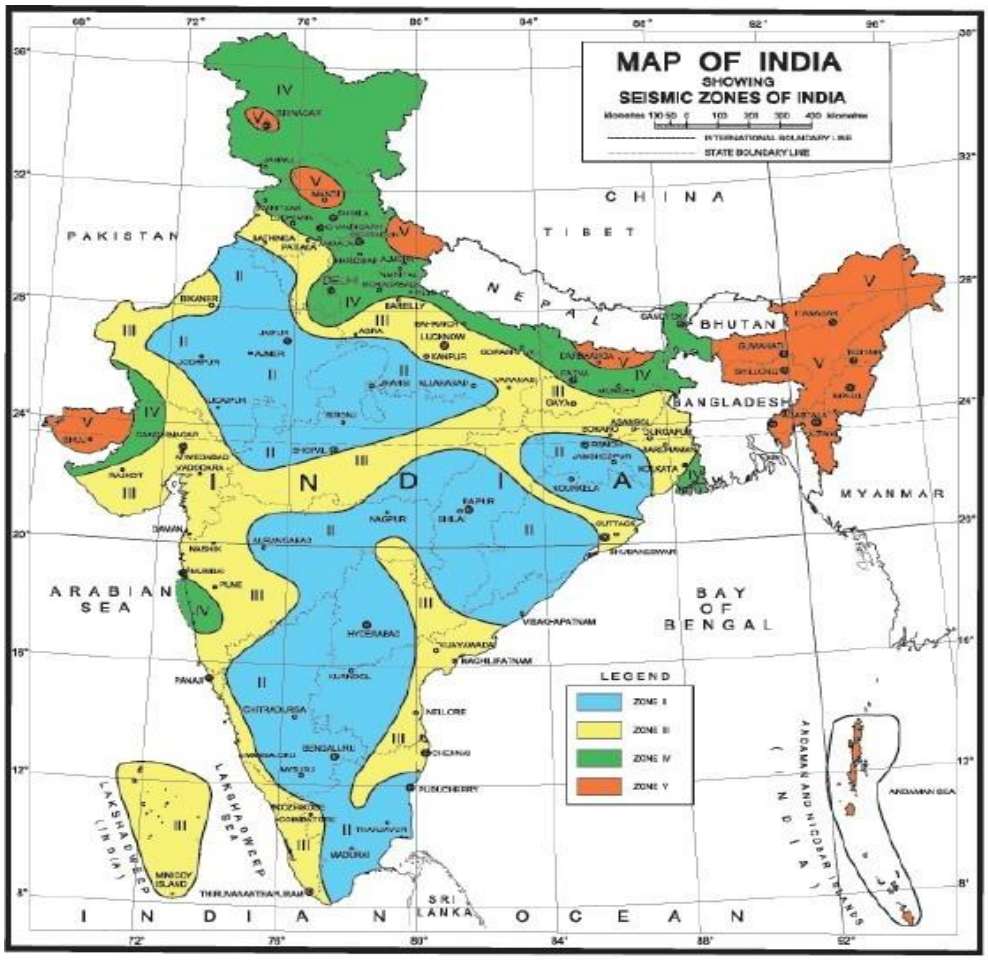
Ras perTable9(v)of IS: 1893-2016isbasedonBuildingwithductileRCstructuralwallswithRCOMRF

Sa/g – Average response acceleration coefficient for soilsites as per Fig.2 of IS:1893-2016anditisarrivedbasedonappropriatefundamentalnaturalperiodofstructurecalculatedas perclause:7.6.2.

Designhorizontalseismiccoefficient (Ah)	:(Z/2)*(Sa/g)*(I/R)
	:(0.16/2)*(1.5/4)*(Sa/g)
	Ah :0.03*(Sa/g)
Designseismicbaseshear,Vb	:Ah*Wwhere,W-seismicweightofbuilding
TimePeriodconsidered	:BuildingwithRCStructural Walls
DynamicAnalysiswithP-Deltaeffect(IS1893-2016CL 6.4.3)	:Notconsideredintheanalysis

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TableNo:03				
ZoneFactor,Z				
(Clause6.4.2)				
SeismicZone	II	III	IV	V
SeismicIntensity	Low	Moderate	Severe	VerySevere
Z	0.10	0.16	0.24	0.36



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Expansionjoint

Expansionjointsarenotprovidedinbuilding.

1.4.2 -DurabilityConsiderations:

EnvironmentalconditionsCorrosionandFireprotectionforconcreteandstructuralsteel

Environment :Moderate

Exposureconditions :ConcretesurfacesexposedtosevererainorOccasional freezing whilst wet or severeCondensation.

Fireprotection :Thicknessofthestructuralelementsasper table15,16&16Aclause26.4ofIS456-2000.

Minimumgradeofconcrete :Moderateexposure–M20

Nominalcovertoreinforcement :ForModerateExposureNominalcovershouldnotbelesthan30mmforwalls, 50mmforfootings,40mmforcolumn,25mmforbeamsand20mmforslabs.

1.4.3-FireRating:

- Thickness of the structural elements as per table 15, 16 & 16A clause 26.4 of IS 456-2000.TwoHoursfireratingisconsideredwithwallthicknessof160mm&withminimumpercentageofsteel0.4%(includingbothverticalandhorizontalreinforcement)asperIS:456-2000,Cl:21,Fig:1.
- Nominalcoversfor1.5hr.fireresistance:

NominalCover						
BEAM		**Slabs**		**Ribs**		**Columns / shear wall**
Simply support	continuous	Simplysupported	continuous	Simply support	Continuous	
mm	mm	mm	mm	mm	mm	mm
20	20	25	20	35	20	40/25

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1.5 -ANALYSISMETHODOLOGY:

This structure has physical interface with almost all the disciplines like Geotechnical, MEP Servicesand Landscape etc. The Structure proposed is of cast in-situ concrete construction with shear wallssuitably placed. The core walls around lifts are of cast in-situ concrete to resist lateral forces. TheStructural design of the proposed project is based on Indian Standard Codes and is analysed for Dead,Live, Wind and Seismic Load conditions taking into relevant load combinations recommended by thecodes.

The Vertical Loads including the dead and super imposed loads are transferred tothe soil throughbeams, core walls and footings. Footings are sized with consideration to the safe bearing capacity ofsoil at the level of transfer of load recommended by specialist soil investigation consultants. The Lateralloadsduetowindandseismicforcesaredissipated to soil through the proposed ReinforcedConcreteCoreWalls/columns.

1.6 -LOADCOMBINATIONS:

LoadcombinationsUsedforStrength,Serviceabilityaretabulatedbelow:

LoadCombination	LimitStateofCollapse				LimitStateofServiceability		
	DL+SDL	*LL*	*WL/EL*	*TL*	*DL+SDL*	*LL*	*WL/EL/TL*
DL+LL	1.5	1.5	—	—	1	1	—
DL+WL	1.5or0.9*	—	1.5	—	1	—	1
DL+EL	1.5or0.9*	—	1.5	—	1	—	1
DL+LL+WL	1.2	1.2	1.2	—	1	0.8	0.8
DL+LL+EL	1.2	1.2	1.2	—	1	0.8	0.8

The various loads are combined in accordance with the stipulations in IS: 875(Part5)-1987; whichever combination produces the most unfavourable effect in thebuildingfoundationorstructuralmemberconcernedmaybeadopted.

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1.7 -DESIGNMETHODOLOGY:

- All R.C.C structures shall be designed according to the Limit State Method asspecifiedinIS:456–2000andinaccordancewithclausesmentionedforstructuralelement sizesinIS13920-2016.
- Forces and moments from the 3D analysis output for the worst combinations areusedforthedesignofthestructure.
- Thefoundationsaredesignedforcriticalloadcombination.
- The structure is analysed for specific loads like dead load, live load, wind andseismicloadsandfortheloadcombinationsasgivenintherelevantcodes.

1.8 -ACCEPTANCECRITERIA:

1.8.1 -DeflectionLimits:

ForReinforcedconcreteworks:

- Limiting values of deflection (Short and Long term) as per clause 35.3 of IS: 456-2000isfollowedinthedesign.
- Limiting value for long term deflection is considered as span/250 and for the long-term deflection after erection of partitions& finishes is considered as span/350or20mmwhicheverlessasperIS456–2000.

1.8.2 -CrackingLimits:

- Limitingvaluesofcrackwidthasperclause35.3ofIS:456-2000isfollowedinthedesign.
- Ingeneral,forslabsandbeams,thecrackwidthislimitedto0.2mm.
- Forbasementretainingwallandwaterretainingstructures,crackwidthislimitedto 0.1mm.

1.8.3 -PermissibleDriftLimits:

- As per IS-1893 (Part1) :2016, clause 7.11.1, Storey drift in any storey duetominimumspecifieddesignseismic lateral force shall not exceed 0.004 timesthestoreyheightdesign.
- AsperIS-456-2000clause20.5,Lateralswayduetowindload should notexceedH/500(Histhetotalheightofstructure).

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1.8.4 -Soildata:

FoundationsaredesignedbasedonGeoTechnicalinvestigationreport and willdissipate all the vertical and horizontal loads safely to the soil below. As per thesoilinvestigationreportreceivedfromgeotechnicalconsultantsis**Isolated Footing**.

5. RECOMMENDATION

For the site, "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH STILT + 5 FLOORS OF PLINTH AREA 4,000 SQ. FT., @ SF. NO. : 340/1, TS. NO. : 129, 130 & 132, WARD NO. : Y, BLOCK NO. : 16, ADDRESS NO. : 17, 18, 19, RAGAVENDRA NAGAR, VILANKURUCHI VILLAGE, PEELAMEDU POST, COIMBATORE DISTRICT – 641004." The borehole investigation was conducted and SBC was determined.

- In this site, up to 12.00m, SOFT DISINTEGRATED ROCK is obtained.
- The **ISOLATED FOOTING** is recommended for this site.

RECOMMENDATION FOR BOREHOLE LOCATION: 1 AREA

- **Rest the Foundation at 3.00m from the Existing Ground Level For Borehole Location 1.**
- The **SBC at 3.00m is 36.85 Ton/m^2** is determined in Borehole Location: 1 Area @ Foundation Level.

RECOMMENDATION FOR BOREHOLE LOCATION: 2 AREA

- **Rest the Foundation at 2.00m from the Existing Ground Level For Borehole Location 2.**
- The **SBC at 2.00m is 36.15 Ton/m^2** is determined in Borehole Location: 2 Area @ Foundation Level.

1.9 -DetailingRequirements:

- Detailingforthestructuralelementsshallbedoneinaccordancewith IS:13920-2016,takingR=3asperTable9(v)ofIS:1893-2016isbased onperimeterRCOrdinaryMoment-ResistingFrames
- DetailingforallstructuralmembersshallbeinaccordancewithIS:456& SP:34.

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DIRECTORATE OF TOWN & COUNTRY PLANNING

OFFICE OF THE ASSISTANT DIRECTOR OF TOWN & COUNTRY PLANNING

NAMAKKAL DISTRICT

D.no-6/1217, Paramathi Road (South Side)
Namakkal-637001.
Ph: 04286-290067
E-mail: dtcp.namakkal@gmail.com



PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that **Thiru.S.PRADEEP** has enrolled as **REGISTERED STRUCTURAL ENGINEER GRADE-II(SE-II)** with Directorate of Town & Country Planning (DTCP) Who has the qualification of **B.E. (CIVIL ENGINEERING)** and experience in the relevant field for **THREE** Years and **SIX** Month.

He/She has been given the Registration No. **DTCP/NAMAKKAL/RSE-II/001/2022.** He/She Shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part V, "Registration of Professionals ", Tamil Nadu Combined Development and Building Rules,2019, approved vide G.O.(MS) No.18 Municipal Administration and water Supply (MA1) Department, Dated 04.02.2019.

This Registration is Valid up to: 24.03.2027

25 MAR 2022

Place: Namakkal-01
Date: 25.3.22

ASSITANT DIRECTOR
DISTRICT TOWN &COUNTRY PLANNING OFFICE, NAMAKKAL DISTRICT
NAMAKKAL-637001.



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Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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