

(NABL Accredited Laboratory TC - 8619)

(A Unit of Ashhirwaad Associates - Regd. No. 18/2000) (Approved by Government of India)

Civil Engineering Consultancy Services

- **Geotechnical Investigation**
- Survey and contouring
- Load testing on Piles
- ♦ Structural consultancy
- Material testing
- NDT Services
- "A Total Solution Provider In Civil Engineering Services"



Ref: AAL/9634/22

Date: 25 - 05 - 22

FORM – 5

(Bye - Law 18)

Building Completion & Structural Stability Certificate

I hereby certify that the school "Maharishi Vidya Mandir" functioning in the buildings of Block 'A' and 'C' located in No. R.S.No. 120/1, 120/2, 120/3, 124 & 127/6 at Keelparikalpet Village, Bahour Commune, Puducherry - 607402 confirm in all respect to all the requirements of the building Bye-Law in respect of structural safety, Fire safety, Hygienic and Sanitary condition inside and in the surroundings as per the pursuance of permission granted by the Pondicherry Planning Authority and completed the same.

The Present structure of buildings is suitable for running an educational institution and around 2000pupils can be accommodated in both buildings.

These buildings were inspected by me and it is structurally sound, the residual life of the buildings is more than 35 years under proper periodic maintenance. The Structural Stability certificate is to be revalidated after 3 yeras from the date of issue.

For ASHHIRWAAD ANALYTICAL LABORATOR

Proprietor



Er. N.J.L. RAMESH, M.Tech., M.Sc., MBA., (Ph.D). MIB., FIV., MICI., IIT Arb.

Chief-Consultant (Geotech & Structures) Regd.Geotechnical Engineer.LM 3148/2011

Regd.Grade-I Structural Engineer (3-969/PPA/LIC/2018. Regd.Quality Auditor.(3-1215/PPA/LIC/RQA/2021

Regd Engineer: (3-724/PPA/LIC/2011)

Office: 'Mayan Vihar' No:182, 4th Main Road, Mahaveer Nagar, Puducherry-605 008. South India

Head Office:

"Mayan Vihar" No.182, 2nd Floor, 4th Main Road, Mahaveer Nagar, Karuvadikuppam,

Puducherry-605008 Phone: 0413-2252663 Extn.27 & 31 Cell: 7598491505

Branch Office: No. 6C/20, First Floor, Cauvery-Street, Saligramam, Chennai - 93. Cell: 9629486505



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- Load testing on Piles
- NDT Services



NABL -TC-8619

ISO/IEC 17025:2005

Ref:

Date: 21. 62.20

FORM-5

(Bye - Law 18)

Building Completion & Structural Stability Certificate

I hereby certify that the school "Maharishi Vidya Mandir" functioning in Block 'C' – Sri Ganesh College Campus located in R.S. No. R.S.No. 120/1, 120/2, 120/3, 124 & 127/6 at Keelparikalpet Village, Bahour Commune, Puducherry – 607402 has been completed in all aspects.

I declare that the building confirms in all respects to all the requirements of the building Bye-Law in respect of structural safety, Fire safety, Hygienic and Sanitary condition inside and in the surroundings as per the pursuance of permission granted by the Pondicherry Planning Authority and completed the same.

The present structure is suitable for running educational institution and around 500 Pupils can be accommodated in this building.

This building was inspected by me and it is structurally sound, the residual life of the building is more than 35 years under proper periodic maintenance. The structural stability certificate is to be revalidated after 3 years from the date of issue.



Proprietor 21 02 2090

Er. N.J.L. RAMESH, M.Tech., M.Sc., MBA., MIE., FIV., MICI., IIT Arb.

Chief - Consultant (Geotech & Structures)

Regd. Geotechnical Engineer: LM 3148/2011 Regd. Grade-1 Structural Engineer: (3-969/PPA/LIC/2018)

Regd. Engineer: (3-724/PPA/LIC/2011)

Office: "Mayan Vihar" No.182, 4th Main Road,

Mahaveer Nagar, Puducherry - 605 008, South India.

Head Office: "Mayan Vihar" No.182, 2nd Floor, 4th Main Road, Mahaveer Nagar, Karuvadikuppam,

Puducherry-605008 Phone: 0413-2252663 Extn.27 & 31 Cell: 7598491505

Branch Office: No. 14/57C, Nerkundram Road, Vadapalani, Chennai – 26. Cell: 9629486505

FORM NO 8 CERTIFICATE OF UNDERTAKING FOR MULTISTOREYED/ SPECIAL/ GROUP DEVELOPMENT BUILDINGS SAFETY REQUIREMENT

To

The Member - Secretary, Planning Authority.

> Ref: EXISTING INSTITUTIONAL BUILDING "MAHARISHI VIDHYA MANDIR" (MAIN BLOCK 'A'- G+2) AT MULLODAI, PUDUCHERRY- 607402.

- (1) Certified that the building plans submitted for approval will satisfy the safety requirements as stipulated under Building Bye-law and Zoning Regulations and the information given therein is factually correct to the best of our knowledge and understanding.
- (2) It is also certified that the structural design including safety from natural hazards based on soil conditions shall be duly incorporated in the design of the building and these provisions shall be adhered to during the construction.

Signature of Owner with Date: Name in Block Letters Address

Signature of Developer with Date Name in Block Letters: Address:

Registered Structural Engineer on Record with date

Er. N.J.L. RAMESH, M. Tech., M. Sc., MBA., (Ph.D).,

MIB., FIV., MICI., IIT Arb.

Chief-Consultant (Geotech & Structures)

Regd.Geotechnical Engineer:LM 3148/2011
Regd.Grade-I Structural Engineer(3-969/PPA/LIC/2018
Regd.Quality Auditor:(3-1215/PPA/LIC/RQA/2021

Regd.Engineer:(3-724/PPA/LIC/2011)

Office: 'Mayan Vihar' No:182, 4th Main Road

Mahaveer Nagar, Puducherry-605 008. South Lodia

Signature of the Architect/ Engineer on Record with data

Name in Block Letters:

Address:

Er. N.J.L. RAMESH, M.Tech., M.Sc., MBA., (Ph.D).

MIB., FIV., MICI., IIT Arb.

Chief-Consultant (Geotech & Structures)

Regd.Geotechnical Engineer:LM 3148/2011

Regd. Grade-I Structural Engineer: (3-969/PPA/LIC/2018. Regd. Quality Auditor: (3-1215/PPA/LIC/RQA/2021 Regd. Engineer: (3-724/PPA/LIC/2011)

Office: 'Mayan Vihar' No: 182, 4th Main Road,

Mahaveer Nayar, Puducherry-605 008. South India

FORM NO: 10

CERTIFICATE OF UNDERTAKING OF REGISTERED STRUCTURAL ENGINEER

To

The Member – Secretary, Planning Authority.

REF: EXISTING INSTITUTIONAL BUILDING "MAHARISHI VIDHYA MANDIR" (MAIN BLOCK 'A'- G+2) AT MULLODAI, PUDUCHERRY- 607402.

Owner: Mr. S. SELVAMANI.

I am a Registered Structural Engineer (R.S.E.). This is to certify that I have been appointed as Structural Engineer to prepare the Structural design basis report, detailed structural design and detailed Structural drawings for above mentioned project. I am fully conversant of my duties and responsibility under the building Bye – laws and Zoning Regulations and assure that I shall fulfill them in all respects.

I have prepared and signed a structural design basis report (S.D.B.R.)

I undertake to carry out a detailed structural design and prepare detailed structural Drawings of proposed building as per the latest Indian Standard Specifications, and as indicated in the Structural Design basis report.

I undertake to supply the Owner and the supervisor the detailed Structural Drawings. If my services are terminated, I undertake to intimate the Authority in writing.

Signature:

Er. N.J.L. RAMESH, M Tech. M.Sc., MBA. (Ph.D).

enu

mief-Consultant (Geotech & Structures)

Regd.Geotechnical Engineer:LM 3148/2011
Regd.Grade-I Structural Engineer:(3-969/PPA/LIC/2018
Regd.Quality Auditor:(3-1215/PPA/LIC/2018

Office: Manage 18, 724/PPAR (C.2011)

Manaveer Nagar, Puducherry-605 008. South India

STRUCTURAL DESIGN BASIS REPORT

Part	1 Gener	ral Data	
S.No.		Information	Notes
(1)	Address of the building Name of the Building Plot Number Sub Plot Number Village a) Name b) R.S./T.S. Number Locality/Township District	EXISTING INSTITUTIONAL BUILDING "MAHARISHI VIDHYA MANDIR" (MAIN BLOCK 'A'- G+2) AT MULLODAI, PUDUCHERRY- 607402.	
(2)	Name of the owner	Mr. S. SELVAMANI.	14
(3)	Name of the Builder	-	aunt :
(4)	Name of Registered Architect/Engineer	Er. N.J.L. PAMEST	
(5)	Name of Registered Structural Engineer	Er. N.J.L. RAMESH	
(6)	Use of the building	EDUCATIONAL INSTITUTIONAL BUILDING	
(7)	Number of storey's above ground level (including storey's to be added later, if any)	(G+2)	
(9)	 Type of Structure Load bearing walls R.C.C. frame R.C.C. frame & shear walls Steel frame 	RCC Framed Structure with Brick in filled Partition walls	
(10	 Soil data Type of soil Design safe bearing capacity 	Not Available	
(11	 Dead loads (unit weight adopted) Earth Water Brick masonry Plain Cement Concrete Reinforced Cement Concrete 	1600 Kg/m ³ 1000 Kg/m ³ 1920 Kg/m ³ 2400 Kg/m ³ 2500 Kg/m ³	IS:875 Part 1
(12	 Floor finish Other fill materials Piazza floor fill and landscape Imposed (Live) loads	125Kg/m³ - -	
)	 Piazza floor accessible to Fire Tender Piazza floor not accessible to Fire Tender Tender Floor load 	- - 500 Kg/m ² 200Kg/m ²	IS: 875 Part 2

	Roof load		
(13)	Cyclone/Wind	50m/s 150Kg/m²	IS: 875
(14	Seismic Zone	Zone II	IS: 875(2002)
(15	Importance Factor	1.5	IS: 875(2002) Table 6
(16)	Seismic Zone Factor (Z)	0.10	IS: 1893 Table 2
(17	Response reduction factor	3(Ordinary moment Resistant Frame)	IS: 1893 Table 7
(18	Fundamental natural period – approximate	0.245 sec	IS: 1893 Cl.7.6
(19	Design horizontal acceleration spectrum value (Ah)	0.0147	IS: 1893 Cl.6.4.2
(20	Expansion / Separation Joints	Nil	

Part 2	Load bearing masonry buildings	Not
applicable		Applicable

Er. N.J.L. RAMESH, M.Tech.,M.Sc.,MBA., (Ph.D).,
MB., FIV., MICI., IIT Arb.
Chief-Consultant (Geotech & Structures)
Regd.Geotechnical Engineer:LM 3148/2011
Regd.Grade-1 Structural Engineer:(3-969/PPA/LIC/2018.
Regd.Quality Auditor:(3-1215/PPA/LIC/RQA/2021
Regd.Engineer:(3-724/PPA/LIC/2011)
Office: 'Mayan Vihar' No:182, 4th Main Road,
Mahaveer Nagar, Puducherry-805 008. South India

FORM No. – 12 (Continued)

ert :	Reinforced concrete	framed buildings	
S.No.	Description	Information	Notes
(1)	Type of Structure • Regular frames • Regular frames with shear wall • Irregular frames • Irregular frames with shear wall • Soft storey	Regular Frame	IS: 1893 Cl.7.1
(2)	Number of basement	Nil	
(3)	Number of floors including ground floor	3	
(4)	Horizontal floor system • Beam and Slabs • Waffles • Ribbed Floor • Flat slab with drop • Flat plats without drops	Beam and Slab	
(5)	 Soil Data Type of soil Recommended type of foundation Independent footings Raft Piles Recommended bearing capacity of soil Recommended, type, length diameter and load capacity of piles Depth of Water table Chemical analysis of ground water Chemical analysis of soil 	Not available	IS: 1498
(6)	Foundations • Depth below ground level • Type - Independent - Interconnected - Raft - Piles	Not available	
(7)	 System of interconnecting foundations Plinth beams Foundation beams 	Plinth beams Grade beams	
(8)	Grades of concrete used in different parts of building	M25	
(9)	Method of analysis used	P delta analysis	
(10)	Computer software used	Staad.Pro V8i-Software	

(12)	Base shear a. Based on approximate fundamental	36 KN	IS: 1893
	period	Based on Dynamic	Cl.7.5.3
	b. Based on dynamic analysis	Analysis	
	c. Ratio of a/b	7 mary 515	
(13)	Distribution of seismic forces along the height	Included in the 3D	IS: 1893 Cl.7.7
	of the building	Analysis	
(14)	The column of soft ground storey specially designed	N/A	IS: 1893 Cl.7.10
(15)	Clear minimum cover provided in		
	 Footing 	60mm	
	• Column	50mm	
	Beams	30mm	
	 Slabs 	20mm	
	 Walls 	20mm	
(16)	Ductile detailing of RC frame		
	 Type of reinforcement used 	Fe 500	IS: 456 Cl.5.6
	 Minimum dimension of beams 	230x300	IS:13920 Cl.6.1
	 Minimum dimension of columns 	230x230	IS:13920
	 Minimum percentage of reinforcement 	0.25%	Cl.7.1.2
	of beams at any cross section		IS: 456
	•		Cl.26.5.1(a)
	 Maximum percentage of reinforcement 	2.0%	IS:13920
	at any section of beam		Cl.6.2.1
			IS:456
	 Spacing of transverse reinforcement of 	100mm	Cl.26.5.1.1(b)
	2-d length of beams near the ends		IS:13920
		4.05	Cl.26.5.1.1(b)
	 Ratio of capacity of beams in shear to 	1.25	IS:13920
	capacity of beams in flexure		Cl.6.2.2
	Y Y	3.25%	IS:13920
	 Maximum percentage of reinforcement in column 	3.23%	Cl.6.3.5
	Confining stirrups near ends of columns		
	and in beam column joints	8mm	IS:456
	a) Diameter	100mm	Cl.26.5.3.1
	b) Spacing		
	-, -,	0.9	
	 Ratio of shear capacity of columns to 		
	maximum seismic shear in the storey	1 14	
- 1	,		IS:13920Cl.7.4

Part 4 **Buildings in Structural Steel** Not applicable

hief Consoltant (Geotech & Structures)
Regd Geotechnica: Engineer (J. 969/PPA/LIC/2018)
Regd Quality Auditor (3-1215/PPA/LIC/RQA/2021
Regd Engineer (J. 724/PPA/LIC/2011)
Office: Mayary Nagar Purturbary, 605 008



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Civil Engineering Consultancy Services

Geotechnical Investigation Survey and contouring Load testing on Piles Structural consultancy Material testing NDT Services

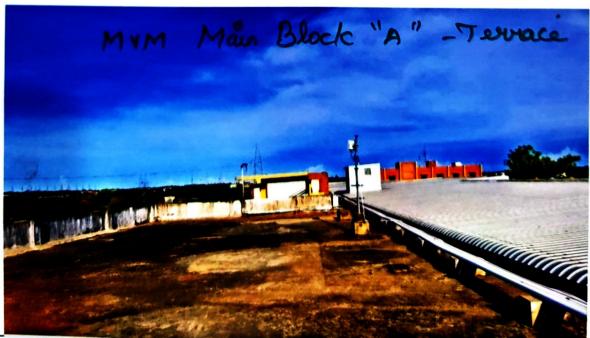


"A Total Solution Provider In Civil Engineering Services"

Act 9448 MVM - Stol. Stability Letiticate /2022-23

Date: |4|4|22





Head Office:

"Mayan Vihar" No.182, 2nd Floor, 4th Main Road, Mahaveer Nagar, Karuvadikuppam,

Puducherry-605008 Phone: 0413-2252663 Extn.27 & 31 Cell: 7598491505

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Civil Engineering Consultancy Services

Geotechnical Investigation Survey and contouring Load testing on Piles Structural consultancy Material testing NDT Services



"A Total Solution Provider In Civil Engineering Services"

Date: 14/04/22

Ref: 9448/MVM-Stal. Stability Cartificate /2022-23





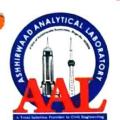


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Puducherry-605008 Phone: 0413-2252663 Extn.27 & 31 Cell: 7598491505

Branch Office: No. 6C/20, First Floor, Cauvery Street, Saligramam, Chennai - 93. Cell: 9629486505



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Civil Engineering Consultancy Services

Geotechnical Investigation Survey and contouring Load testing on Piles

Structural consultancy **Material testing NDT Services** "A Total Solution Provider In Civil Engineering Services"



Ref:

9448/MVM - Stel. Stability Costificate /2022-23 Date: 14/04/22 MVM Main Block A" - Staves





Head Office:

"Mayan Vihar" No.182, 2nd Floor, 4th Main Road, Mahaveer Nagar, Karuvadikuppam,

Puducherry-605008 Phone: 0413-2252663 Extn.27 & 31 Cell: 7598491505

Branch Office: No. 6C/20, First Floor, Cauvery Street, Saligramam, Chennai - 93. Cell: 9629486505

FORM NO 8 CERTIFICATE OF UNDERTAKING FOR MULTISTOREYED/ SPECIAL/ GROUP DEVELOPMENT BUILDINGS SAFETY REQUIREMENT

To

The Member – Secretary, Planning Authority.

Ref: EXISTING INSTITUTIONAL BUILDING "MAHARISHI VIDHYA MANDIR" (PRE-PRIMARY BLOCK 'C'- G+1) AT MULLODAI, PUDUCHERRY-607402.

- (1) Certified that the building plans submitted for approval will satisfy the safety requirements as stipulated under Building Bye-law and Zoning Regulations and the information given therein is factually correct to the best of our knowledge and understanding.
- (2) It is also certified that the structural design including safety from natural hazards based on soil conditions shall be duly incorporated in the design of the building and these provisions shall be adhered to during the construction.

Signature of Owner with Date: Name in Block Letters Address

Signature of Developer with Date Name in Block Letters: Address: Registered Structural Engineer on Record with date

Er. N.J.L. RAMESH, M. Tech, M.Sc., MBA., (Ph.D).

MIB., FIV., MICI., IIT Arb.
Chief-Consultant (Geotech & Structures)
Regd.Geotechnical Engineer:LM 3148/2011

Regd.Geotechnical Engineer:LM 3148/2011 Regd.Grade-I Structural Engineer:(3-969/PPA/LIC/2018)

Regd. Quality Auditor: (3-1215/PPA/LIC/RQA/2021

Regd.Engineer:(3-724/PPA/LIC/2011)
Office: 'Mayan Vihar' No. 182, 4th Main Road,

Mahaveer Nagar, Puducherry-806 008. South India

Signature of the Architect/ Engineer on Record with date.

Name in Block Letters:

Address:

Er. N.J.L. RAMESH, M. Tech. M.Sc., MBA., (Ph.D).

MIB FIV. MICI. IIT Arb.

Stand Continue on the Continue of the Continue

Regd.Quality Auditor.(3-1215/PPA/LIC/RQA/2 Regd.Engineer:(3-724/PPA/LIC/2011)

Office: 'Mayan Vihar' No:182, 4th Main Road

Mahaveer Nagar, Puducherry-805 008. South Indi

FORM NO: 10

CERTIFICATE OF UNDERTAKING OF REGISTERED STRUCTURAL ENGINEER

To

The Member - Secretary, Planning Authority.

> REF: EXISTING INSTITUTIONAL BUILDING "MAHARISHI VIDHYA MANDIR" (PRE-PRIMARY BLOCK 'C'- G+1) AT MULLODAI, PUDUCHERRY- 607402.

Owner: Mr. S. SELVAMANI.

I am a Registered Structural Engineer (R.S.E.). This is to certify that I have been appointed as Structural Engineer to prepare the Structural design basis report, detailed structural design and detailed Structural drawings for above mentioned project. I am fully conversant of my duties and responsibility under the building Bye - laws and Zoning Regulations and assure that I shall fulfill them in all respects.

I have prepared and signed a structural design basis report (S.D.B.R.)

I undertake to carry out a detailed structural design and prepare detailed structural Drawings of proposed building as per the latest Indian Standard Specifications, and as indicated in the Structural Design basis report.

I undertake to supply the Owner and the supervisor the detailed Structural Drawings. If my services are terminated, I undertake to intimate the Authority in writing.

Signature:

Er. N.J.L. RAMESH, M Tech, M.Sc. MBA, (Ph.D).

MIB., FIV., MICI., IIT Arb.

Chief-Consultant (Geotech & Structures)
Regd Geotechnical Engineer LM 3148/2011

Regd.Grade-I Structural Engineer: (3-969/PPA/LIC/2018. Regd.Quality Auditor: (3-1215/PPA/LIC/RQA/2021

Regd.Engineer:(3-724/PPA/LIC/2011)

Office: 'Mayan Vihar' No:182, 4th Main Road, Mahaveer Nagar, Puducherry-605 008. South India

STRUCTURAL DESIGN BASIS REPORT

1 Gener	al Data	
Description	Information	Notes
Address of the building Name of the Building Plot Number Sub Plot Number Village a) Name b) R.S./T.S. Number Locality/Township District	EXISTING INSTITUTIONAL BUILDING "MAHARISHI VIDHYA MANDIR" (PRE - PRIMARY BLOCK 'C'- G+1) AT MULLODAI, PUDUCHERRY - 607402.	
Name of the owner	Mr. S. SELVAMANI	
Name of the Builder	-	
Name of Registered Architect/Engineer	-	
Name of Registered Structural Engineer	Er. N.J.L. RAMESH	
Use of the building	EDUCATIONAL INSTITUTIONAL BUILDING	
Number of storey's above ground level (including storey's to be added later, if any)	(G+1)	
Type of Structure Load bearing walls R.C.C. frame R.C.C. frame & shear walls Steel frame	RCC Framed Structure with Brick in filled Partition walls	
 Soil data Type of soil Design safe bearing capacity 	Not Available	
 Dead loads (unit weight adopted) Earth Water Brick masonry Plain Cement Concrete Reinforced Cement Concrete Floor finish Other fill materials 	1600 Kg/m ³ 1000 Kg/m ³ 1920 Kg/m ³ 2400 Kg/m ³ 2500 Kg/m ³ 125Kg/m ³	IS:875 Part 1
 Piazza floor fill and landscape Imposed (Live) loads Piazza floor accessible to Fire Tender Piazza floor not accessible to Fire Tender 	- - - 500 Kg/m ²	IS: 875 Part 2
	Description Address of the building Name of the Building Plot Number Sub Plot Number Village a) Name b) R.S./T.S. Number Locality/Township District Name of the owner Name of the Builder Name of Registered Architect/Engineer Name of Registered Structural Engineer Use of the building Number of storey's above ground level (including storey's to be added later, if any) Type of Structure Load bearing walls R.C.C. frame R.C.C. frame R.C.C. frame Soil data Type of soil Design safe bearing capacity Dead loads (unit weight adopted) Earth Water Brick masonry Plain Cement Concrete Reinforced Cement Concrete	Description Address of the building Name of the Building Plot Number Sub Plot Number Village a) Name b) R.S./T.S. Number Locality/Township District Name of the owner Name of the Builder Name of the builder Name of Registered Architect/Engineer Name of Registered Structural Engineer Name of Registered Structural Engineer Was of the building Desd the building RCC Frame Shove ground level (including storey's to be added later, if any) Type of Structure Locad bearing walls R.C.C. frame Soil data Type of soil Design safe bearing capacity Dead loads (unit weight adopted) Earth Water Brick masonry Plain Cement Concrete Reinforced Cement Concrete Floor finish Other fill materials Piazza floor not accessible to Fire Tender Piazza floor not accessible to Fire Tender Piazza floor not accessible to Fire Tender Piazza floor not accessible to Fire

	Roof load		
(13	Cyclone/Wind		IS: 875
)	Speed	50m/s	
	Design pressure intensity	150Kg/m^2	
(14	Seismic Zone	Zone II	IS: 875(2002)
(15	Importance Factor	1.5	IS: 875(2002)
)			Table 6
(16	Seismic Zone Factor (Z)	0.10	IS: 1893
)			Table 2
(17	Response reduction factor	3(Ordinary moment	IS: 1893
)		Resistant Frame)	Table 7
(18	Fundamental natural period - approximate	0.245 sec	IS: 1893
)			Cl.7.6
(19	Design horizontal acceleration spectrum	0.0147	IS: 1893
)	value (Ah)		Cl.6.4.2
(20	Expansion / Separation Joints	Nil	

Part 2	Load bearing masonry buildings	Not
applicable	bundings	NOL

Er. N.J.L. RAMESH, M.Tech.M.Sc.,MBA. (Ph.D).

MIB., FIV., MCL, IIT Arb.

Chief-Consultant (Geotech & Structures)
Regd. Geotechnical Engineer: LM 3148/2011
Regd Grade-I Structural Engineer: (3-969/PPA/LIC/2018
Regd. Quality Auditor: (3-1215/PPA/LIC/RQA/2021
Regd. Engineer: (3-724/PPA/LIC/2011)
Office: 'Mayan Vihar' No:182, 4th Main Road,
Mahaveer Nagar, Puducherry-605 008. South India

FORM No. - 12 (Continued)

Part 3	Reinforced concrete	framed buildings	
S.No.	Description	Information	Notes
(1)	Type of Structure • Regular frames • Regular frames with shear wall • Irregular frames • Irregular frames with shear wall • Soft storey	Regular Frame	IS: 1893 Cl.7.1
(2)	Number of basement	Nil	
(3)	Number of floors including ground floor	2	
(4)	Horizontal floor system • Beam and Slabs • Waffles • Ribbed Floor • Flat slab with drop • Flat plats without drops	Beam and Slab	
(5)	 Soil Data Type of soil Recommended type of foundation Independent footings Raft Piles Recommended bearing capacity of soil Recommended, type, length diameter and load capacity of piles Depth of Water table Chemical analysis of ground water Chemical analysis of soil 	Not available	IS: 1498
(6)	Foundations Depth below ground level Type Independent Interconnected Raft Piles	Not available	
(7)	System of interconnecting foundations Plinth beamsFoundation beams	Plinth beams Grade beams	
(8)	Grades of concrete used in different parts of building	M25	
(9)	Method of analysis used	P delta analysis	
-	Computer software used	Staad.Pro V8i-Software	

(12)	Base shear		IS: 1893
	a. Based on approximate fundamental	36 KN	Cl.7.5.3
	period b. Based on dynamic analysis	Based on Dynamic Analysis	
	c. Ratio of a/b	Analysis	
(13)	Distribution of seismic forces along the height	Included in the 3D	IS: 1893 Cl.7.7
	of the building	Analysis	
(14)	The column of soft ground storey specially	N/A	IS: 1893 Cl.7.10
(15)	designed		
(13)	Clear minimum cover provided in • Footing	60mm	_
	• Column	50mm	
	Beams	30mm	
	Slabs	20mm	
	• Walls	20mm	
(16)	Ductile detailing of RC frame		
	 Type of reinforcement used 	Fe 500	IS: 456 Cl.5.6
	 Minimum dimension of beams 	230x300	IS:13920 Cl.6.1
	 Minimum dimension of columns 	230x230	IS:13920
	Minimum percentage of reinforcement	0.25%	Cl.7.1.2
	of beams at any cross section		IS: 456
	Maximum percentage of reinforcement	2.0%	Cl.26.5.1(a) IS:13920
	 Maximum percentage of reinforcement at any section of beam 	2.070	Cl.6.2.1
	acting section of beam		IS:456
	 Spacing of transverse reinforcement of 	100mm	Cl.26.5.1.1(b)
	2-d length of beams near the ends		IS:13920
		1.25	Cl.26.5.1.1(b)
	 Ratio of capacity of beams in shear to 	1.25	IS:13920
	capacity of beams in flexure	4 9	Cl.6.2.2 IS:13920
	Maximum noncentage of usinforcement	3.25%	Cl.6.3.5
	 Maximum percentage of reinforcement in column 		Gi.O.S.S
	iii coluliiii		
	 Confining stirrups near ends of columns 		
1	and in beam column joints	8mm	IS:456
	a) Diameter	100mm	Cl.26.5.3.1
	b) Spacing	0.9	
		0.9	
	Ratio of shear capacity of columns to		
	maximum seismic shear in the storey		IS:13920Cl.7.4

Part 4 **Buildings in Structural Steel** Not applicable

Chief-Consultant (Geotech & Structures)
Regd Geotechnical Engineer: LM 3148/2011
Regd Grade-I Structural Engineer: (3-969/PPA/LIC/2018.
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Ref:

ASHHIRWAAD ANALYTICAL LABORATORY

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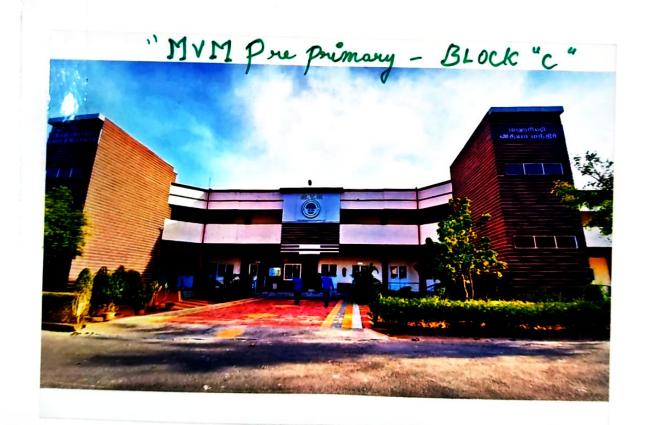
Geotechnical Investigation Survey and contouring Load testing on Piles

Structural consultancy **Material testing NDT Services** "A Total Solution Provider In Civil Engineering Services"



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Date: 14/04/2022



Head Office:

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Date: 14.04.2022

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