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ASHHIRWAAD ANALYTICAL LABORATORY PUDUCHERRY



International
Organization for
Standardization

“ISO/IEC:17025:2017 Certified Laboratory”

*Structural stability certificate
Maharishi Vidya Mandir Bala Bhavan
NO: 148, Murugapakkam to Velliánur
Road, Murugapakkam, Puducherry.*

- Geotechnical Investigation
- Structural Consultancy
- Survey and Contouring
- Material Testing
- NIT Services
- Quality Control & Assurance Programme

Phone: 0413-2252663 Extn. 26, 27, 30

Mobile: 94433 37023, 75984 91505

E-mail: aageotech@gmail.com

Website: www.ashhirwaadassociates.in

ASHHIRWAAD ANALYTICAL LABORATORY

(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"

Date: 01.02.2024

FORM – 5 (Bye – Law 18) Structural Stability Certificate

I hereby certify that "Mr.S.VIKNESH" owner of "Maharishi Vidya Mandir Bala Bhavan, functioning at No.148, Murugapakkam to Villianur Road, Murugapakkam, Puducherry, has been inspected by the undersigned on 30.01.2024, for the purpose of issuing structural stability certificate.

On the basis of my inspection I declare that the building confirms in all respects to all the requirements of the building Bye-Law in respect of structural safety and Sanitary condition inside and in the surroundings as per the pursuance of permission granted by the respective authorities.

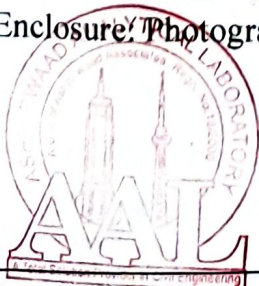
On the basis of visual and physical assessment made by the undersigned along with engineering team, it is here by ascertained that the building at the present stage of usage is in Good condition .The expected remaining life span of the above building is about **30 years** if the same state of maintenance and care is taken at regular intervals (i.e., at every two years)

This structural stability certificate is valid for a period of 36 months from the date of issue. Renewal of the same is mandatory on completion of the validity of the certificate.

Place : Puducherry

Date : 01.02.2024

Enclosure: Photograph.



Er.N.J.L. RAMESH, M.Tech.,M.Sc.,MBA.,(Ph.D.),
MIE.,FV.,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)
Officer: 'Mayan Vihar' No.182, 4th Main Road,
Mahaveer Nagar, Puducherry-605 008. South India

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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
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Date: 01.02.2024

Statement to Accompany the Certificate Structural soundness

1. Location of the building door number : MVM MAIN BLOCK
Street and name of the place :
**Maharishi Vidya Mandir Bala
Bhavan, No.148, Murugapakkam to
Villianur Road, Murugapakkam,
Puducherry.**
2. Age of the building : 2017-Eastern Block
(Based on the local enquiry) : 2023- Southern Block
: 2023- Toilet Block
3. Number of Stories : G+1
4. Short description of structures steel : RCC Framed Structure with Brick
RCC framed or load bearing masonry : infill walls
5. Purpose for which the building is : Educational Institutional building
Certified for use
6. The period for which building : Three Years
Will be structurally sound : (01.02.2024 to 01.02.2027)
7. Number of persons to be accommodated : 200 Pupil can be accommodated
8. Remarks : Nil

Date : 01.02.2024

Place : puducherry

Signature of Registered Engineer

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

Chief-Consultant (Geotech & Structures)

Regd. Geotechnical Engineer: LM 3148/2011

Regd. Structural Engineer: (1969/PPM/LIC/2018)

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

Regd. Engineer: (3-724/PPA/LIC/2011) / 598491505

Head Office: "Mayan Vihar" No.182, 2nd Floor, 4th Cross Road, Murugapakkam, Puducherry-605008 Phone: 0413-2252563, Fax: 0413-2252563, E-mail: www.ashhirwaadassociates.co.in

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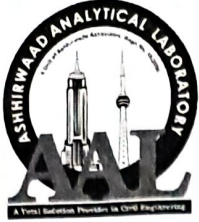
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Date: 01.02.2024

DECLARATION

I, **N.J.L RAMESH** Son of Thiru. **NAGA JAYARAMAN** residing at No: 86, 6th Main Road, Mahaveer Nagar, Karuvadikuppam, Puducherry-605008, do hereby declare the I possess the qualification and experience specified in the Table to rule 11, of the Madras Public Buildings (Licensing) Rules 1966, for issuing the certificate of Structural Soundness of the building covered by the certificate.

- | | | | |
|-------|---|---|----------------------------------|
| i. | Name and address
(in Block letters) | : | N.J.L RAMESH, |
| ii. | Engineering qualification | : | M.Tech., M.Sc., M.B.A., (Ph.D)., |
| iii. | No. of years of experience
And nature thereof. | : | 37 Years |
| iv. | Villupuram DTCP Reg. No | : | RSE/GR.II/VR/DECEMBER/2019/012 |
| v. | CMDA Registration No | : | SE/GR-II/19/05/090-TN |
| vi. | Registered Quality Auditor | : | CMDA: QA/19/07/030-TN |
| vii. | Registered Quality Auditor | : | 3-1215/PPA/LIC/RQA/2021-PDY |
| viii. | Pondicherry PPA Reg. No | : | 3-724/PPA/LIC/2011-PDY |
| ix. | Registered Structural Engineer | : | 3-969/PPA/LIC/2018-PDY |

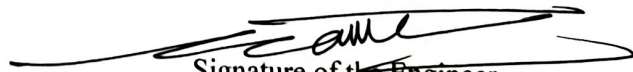
Note: This Certificate will not be valid in the event of:

- a. Fire Accident.
- b. Natural disasters like Earth quake, flood, cyclone, etc.,
- c. Any major changes like demolishing or alterations in the building-without Technically Qualified Engineers connections.
- d. Non-maintenance and unrepaired civil works in the building.
- e. Any accidents/ damages caused by the surrounding neighbor's building/factory.

(Form of opinion under sub – section (1) of section 5 of the Madras Public Buildings (Licensing) Act 1965 (Madras Act 13 of the 1965 referred to in rule 5 of the Madras Public Buildings(Licensing) Rules 1966)

I have inspected the building specified in the statement below and I have satisfied myself that the proposed building is structurally sound to be used as a Institutional Building for the purpose account the statement. The structural soundness of the building has been verified taking into account the loading as per the latest Indian Standards 875. I am therefore of the opinion that a license may be granted for the period of **Three years from 01.02.2024 to 01.02.2027.**

Place: **Puducherry**
Date: **01.02.2024**


Signature of the Engineer

Er. N.J.L. RAMESH, M.Tech., M.Sc., MBA., (Ph.D).,
MIE., FV., MCI., IIT Arb.

Chief-Consultant (Geotech & Structures)

Regd. Geotechnical Engineer: LM 3148/2011

Regd. Grade IV Structural Engineer: (3-969/PPA/LIC/2018)

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

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

Office: Mahaveer Nagar, Puducherry-605008

E-mail: aageotech@gmail.com, Website: www.ashhirwaadassociates.co.in

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Date: 01.02.2024

Statement Accompanying Form – A

1. Door Number of building : MVM Main Block
2. Location street and name of the place : **Maharishi Vidya Mandir Bala Bhavan,
No.148, Murugapakkam to Villianur
Road, Murugapakkam,Puducherry.**
3. Year of construction : 2017-Eastern B
(Based on local enquiry) : 2023-Southern Block
: 2023-Toilet Block
4. Approximate cost of construction as : Does not arise
Per Current Rates
5. Purpose for which the building is being : Educational Institutional Building
Used or purpose to be used
6. Purpose for which the building has now : - do-
Been used
7. Details of construction of the building
(Particulars of the foundation soil,
Specification of the various parts under) :
 - (a) Foundation : **RCC Isolated Column Footing**
 - (b) Basement : **Brick work with cement Mortar**
 - (c) Superstructure : **R.C.C Framed Structure**
 - (d) Floor Finishing : **Tiles**
 - (e) Roof : **R.C.C Roof**

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Date: 01.02.2024

(f) Plinth Area of the Building Occupied	:	GF	- 3791.21 Sqft
		FF	- 3361.78 Sqft
		Terrace	- 267.80 Sqft
		Total	- 7420.79 Sqft
8. Number of Class Rooms	:	8	
9. Number of Toilet for Pupils	:		
Boys	:	Toilet	Urinals
		6	8
Girls	:	7	-
Staff Room	:	2	
PWD Toilet	:	1	
Principal Room	:	1	
10. Number of Pupil can accommodate	:	200	
11. Number of Stair case	:	1	
Width of Stair case	:		
Riser	:	6.6"	
Tread	:	1'	
12. OHT Capacity	:	2000 litres	
13. Type of weathering course	:	No	
14. Red tiles used	:	No	
15. Overall status of the building	:		
Is there any structural cracks notices	:	Nil	
Is there any settlement notice in flooring	:	Nil	
Is there any crack in Roof slab & Deck	:	Nil	
Is there any Leaking in a Terrace	:	Nil	
16. Period for which certification is valid	:	01.02.2024 to 01.02.2027	

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"A Total Solution Provider In Civil Engineering Services"

Date: 01.02.2024

Date: 01.02.2024

Place: Puducherry


Signature of the Registered Engineer

Er. N.J.L. RAMESH, M.Tech., M.Sc., MBA., (Ph.D.),
MIE., 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)
Officer: 'Mayan Vihar' No 182, 4th Main Road,
Mahaveer Nagar, Puducherry-605 008. South India

"Certified that no addition of alteration has been made to the existing building or portion of a building for which this application has been made. I undertake to obtain a fresh license in case any addition or alteration is made to the existing building or portion of building. I also undertake to obtain a fresh certificate if the purpose for which the license was granted for the use of the building originally is changed or altered subsequently."

Date: 01.02.2024

Signature of the owner of the building.

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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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Date: 01.02.2024

Form - B

(Form of certificate of structural soundness under sub-section (4) of section 4 of the Tamil Nadu Public Building (Licensing) Act 1965 (Tamil Nadu At 13 of 1965) referred to in rule 4 of the Tamil Nadu Public Building (licensing) Rules 1966).

I certify that I have inspected the building mentioned in the statement and furnished below its salient technical features and the same is based on the data measurements and specifications found in the building physically:-

I. Foundation:

Depth below ground level flooring	:	1.75m
Nature of soil met with at foundation level	:	Sandy Clay
Pressure at foundation	:	80 KN/m ²
Probable safe bearing capacity of soil met with at foundation	:	100 KN/m ²


II. Superstructure:

Maximum stress in the most critical Section of masonry and concrete	:	160 KN/m ²
Nature of masonry and concrete and Its permissible stress	:	Brick masonry with cement mortar and RC 1:2:3- 250 KN/m ²

The structural soundness of the building has been verified by me with reference to ISI loading standard 878 (Latest version) and other relevant Indian standards code of practice and I declare that the building is structurally sound to be used as a public building for the purpose noted in three statement. A license may be granted for the period three years from 01.02.2024 to 01.02.2027.

Date: - 01.02.2024

Place: puducherry


Signature of Engineer

Er. N.J.L. RAMESH, M.Tech., M.Sc., MBA., (Ph.D.),
MIE., 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/ROA/2021)

Regd. Engineer. (3-724/PPA/LIC/2598491505)

Office: Choyan Vihar No.182, 4th Main Road,

Mahaveer Nagar, Puducherry-605 008, South India

Call: 9629986505

Head Office: "Mayan Vihar" No.182, 2nd Floor, 4th Main Road, Mahaveer Nagar, Kalyandikuppam, Puducherry-605008 Phone: 0413-2252663

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Date: 01.02.2024

Form – C

Form of report to be made to the component authority by inspecting authorities or officers appointed under other act under section 25 of the madras public building licensing Act 1965 (Madras act 13 of 1965) referred to rule 7 of the madras Public Building Licensing rule 1966.

- i. Name and designation of inspecting Authority or officer appointed or having Jurisdiction under any other act or law : **N.J. L RAMESH
NO: 182 4th MAIN ROAD
MAHAVEER NAGAR,
KARUVADIKUPPAM,
PUDUCHERRY.
MOBILE: 9443337023**
- ii. Location of the building inspected D No. Street No. Name of the place i.e., Municipal Corporation/ Municipality/ Panchayat/ Panchayat Union/ Township / Cantonment : **Maharishi Vidya Mandir Bala Bhavan,
No.148, Murugapakkam to Villianur
Road, Murugapakkam, Puducherry.**
- iii. Date of inspection : **30.01.2024**
- iv. Purpose for which the building is used : **Educational Institutional
building**
- v. Nature of defects noticed : **Nil**
- vi. Suggestion for rectifying defects : **No Defects**
- vii. If in dangerous condition immediate Action recommended to be taken : **Not Applicable**

Place : *Puducherry*
Date : *01.02.2024*


Signature of the Engineer

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

Officer: 'Mayan Vihar' No.182, 4th Main Road,
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FORM NO: 10

CERTIFICATE OF UNDERTAKING OF REGISTERED STRUCTURAL ENGINEER

To

The Member – Secretary,
Planning Authority.

REF: EXISTING INSTITUTIONAL BUILDING “MAHARISHI VIDHYA MANDIR BALA BHAVAN” (MAIN BLOCK G+1) AT NO.148, MURUGAPAKKAM TO VILLIANUR ROAD, MURUGAPAKKAM, PUDUCHERRY.

Owner : **Mr.S.VIKNESH**

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.),
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Regd. Geotechnical Engineer: LM 3148/2011
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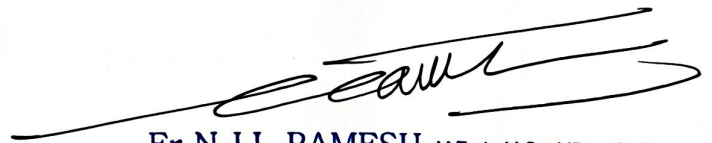
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STRUCTURAL DESIGN BASIS REPORT

Part 1		General Data	
S.No.	Description	Information	Notes
(1)	Address of the building <ul style="list-style-type: none"> Name of the Building Plot Number Sub Plot Number Village <ul style="list-style-type: none"> a) Name b) R.S./T.S. Number Locality/Township District 	EXISTING INSTITUTIONAL BUILDING "MAHARISHI VIDHYA MANDIR BALA BHAVAN" (MAIN BLOCK G+1) AT NO.148, MURUGAPAKKAM TO VILLIANUR ROAD, MURUGAPAKKAM, PUDUCHERRY.	
(2)	Name of the owner	Mr. S. VIKNESH	
(3)	Name of the Builder	-	
(4)	Name of Registered Architect/Engineer	-	
(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+1)	
(9)	Type of Structure <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Type of soil Design safe bearing capacity 	Sandy Clay	
(11)	Dead loads (unit weight adopted) <ul style="list-style-type: none"> Earth Water Brick masonry Plain Cement Concrete Reinforced Cement Concrete Floor finish Other fill materials Piazza floor fill and landscape 	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
(12)	Imposed (Live) loads <ul style="list-style-type: none"> Piazza floor accessible to Fire Tender Piazza floor not accessible to Fire Tender Floor load 	- - 500 Kg/m ² 200Kg/m ²	IS: 875 Part 2 P 16/18

	• Roof load		
(13)	Cyclone/Wind • Speed • Design pressure intensity	50m/s 150Kg/m ²	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 applicable	Load bearing masonry buildings	Not
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Part 3 Reinforced concrete framed buildings			
S.No.	Description	Information	Notes
(1)	Type of Structure <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Beam and Slabs • Waffles • Ribbed Floor • Flat slab with drop • Flat slabs without drops 	Beam and Slab	
(5)	Soil Data <ul style="list-style-type: none"> • Type of soil • Recommended type of foundation <ul style="list-style-type: none"> - 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 	Sandy Clay Independent Footings	IS: 1498
(6)	Foundations <ul style="list-style-type: none"> • Depth below ground level • Type <ul style="list-style-type: none"> - Independent - Interconnected - Raft - Piles 	1.75m Independent	
(7)	System of interconnecting foundations <ul style="list-style-type: none"> • 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	


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

Part 4

Buildings in Structural Steel

Not applicable



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

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
BALA BHAVAN” (MAIN BLOCK G+1) AT NO.148, MURUGAPAKKAM TO
VILLIANUR ROAD, MURUGAPAKKAM, PUDUCHERRY.**

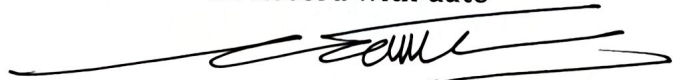
- (1) Certified that the building plans submitted for approval will satisfy the safety requirements as stipulated under Building Bye-law and Zoning Regulations and the information given therein is factually correct to the best of our knowledge and understanding.
- (2) It is also certified that the structural 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

Registered Structural Engineer
on Record with date



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Mahaveer Nagar, Puducherry-605 008. South India

Signature of Developer with Date

Name in Block Letters:

Address:

Signature of the Architect/ Engineer
on Record with date.

Name in Block Letters:

Address:



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Civil Engineering Consultancy Services

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



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Date: 01.02.2024



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“A Total Solution Provider in Civil Engineering Services”



“Pile Load Test”



“Pile Integrity Test”



“Surveying”



“UPV Test”



“Rebound Hammer Test”



“Laboratory”