

**ER. R. PREMKUMAR, B.E (Civ & Stru)., M.E (Geo-Tech)., M.Sc (Rev)., MIE, FIV, IIT Arb, (Ph.D),**  
 Reg. Structural Engineer Gr-I: 126/KPA/RSE/2018-19, Reg. Geotechnical Engineer: TJR/RGTE/2019/014  
 Registered Structural Engineer Grade-I in Karaikal Planning Authority, Competent person to release  
 structural soundness certificate for public buildings.

Certificate of Structural Soundness for the School  
Statement Accompanying From – A

|   |   |          |
|---|---|----------|
| 1. Door number of building  | : M/s. SMV School   |          |
| 2. Location (Street, Name, Ward Number, Name of place, i.e. Corporation/Municipality/Panchayat/ Panchayat Union/Township/Contonment, etc.,) | : Madukarai Road, Madagadipet, Puducherry -605107.  |          |
| 3. Year of construction   | : Newly Constructed   |          |
| 4. Approximate cost of construction as per current rates  | : Rs.22,00,00,000/- (Rupees Twenty Two Crores Only)   |          |
| 5. Purpose for which the building is being used or proposed to be used  | : Class room, Administrative office, Principal room, Staff room, Laboratories, Multipurpose hall and Toilets. |          |
| 6. Purpose for which building has now been used   | : -do-  |          |
| 7. Details of construction of the building (particular of the foundation soil, specification of the various parts under)                    |   |          |
| a) Foundation   | : RCC Footings  |          |
| b) Basement   | : Brick Masonry with Cement Mortor  |          |
| c) Superstructure   | : ACC Blocks and Monolithic Wall  |          |
| d) Floor Finishing  | : Vitrified Tiles and Granite Finishing   |          |
| e) Roof   | : RCC Roof  |          |
| f) Area of the Building (Main Building (G+3))   | :   | Sq.Ft.   |
|   | Basement- Amphitheater & Pump Room  | - 3,035  |
|   | Ground Floor  | - 41,474 |
|   | First Floor   | - 36,810 |
|   | Second Floor  | - 28,900 |
|   | Third Floor   | - 29,443 |
|   | Terrace Floor   | - 28,016 |



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From – B

(Form of certification of structural soundness under sub-section (4) of section 4 of the Tamil Nadu Public Building (Licensing) Act. 1965 (Tamil Nadu Act. 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 of “M/s. SMV School” at Madukarai Road, Madagadipet, Puducherry. Mentioned in the statement and furnish below its salient technical features and the same is based on the data measurements and specifications found in the site of the subject school physically.

**I) Foundation :**

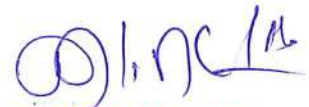
- |   |                          |
|---|--------------------------|
| 1.Depth below ground level  | : 2.0 m                  |
| 2.Nature of soil met with at foundation level                       | : Brown Silty Sand       |
| 3.Pressure at foundation  | : 3.0 T/m <sup>2</sup>   |
| 4.Probable safe bearing capacity of the soil met with at foundation | : 13.50 T/m <sup>2</sup> |

**II) Superstructure :**

- |   |   |
|---|---|
| 1.Maximum stress in the most critical section of masonry and concrete | : 1600 ksc  |
| 2.Nature of masonry and concrete and its permissible stress           | : Brick masonry with cement mortar – 3000 ksc and concrete – 5000 ksc |

The structural soundness of the building has been verified by me with reference to ISI loading standards 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 the statement. A licence may be granted for the period from 13.07.2023 to 12.07.2026.

Date : 13.07.2023



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 structural soundness certificate for public buildings.

From – C

Statement to Accompany the Certificate of Structural Soundness

- |  |  |
|--|--|
| 1.Location of the building, door number, street and name of the place        | : M/s. SMV School,<br>Madukarai Road, Madagadipet,<br>Puducherry.  |
| 2.Age of the building  | : Newly Constructed  |
| 3.Number of storeys  | : Kindergarten - Three Storeyed<br>Main Building - Four Storeyed   |
| 4.Short description of structures steel / RCC framed or load bearing masonry | : RCC framed structure with Monolithic and Shear Wall  |
| 5.Purpose for which the building is certified for use                        | : Class room, Administrative office, Principal room, Staff room, Laboratories, Multipurpose hall and Toilets |
| 6.The period for which the building will be structurally sound               | : Three years 13.07.2023 to 12.07.2026   |
| 7.Number of persons to be accommodated                                       | : 2000 Nos. (capacity)   |
| 8.Remarks  | : Building is Structural Sound, Strong and Safe and Fit for habitation                                       |

Date : 13.07.2023

**Er. R. PREMKUMAR,**

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 Reg. Geo-Technical Engineer (DTCP) : TJR/RGTE/2019/014  
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 Registered Structural Engineer Grade-I in Karaikal Planning Authority, Competent person to release  
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From – E

(Form of report to be made to the competent authority by inspecting authorities or officers appointed under other Act Under Section 28 of the Madras Public Building Licensing) Act. 1965 (Madras Act 13 of 1985) referred to in rule 7 of the Madras Public Building Licensing Rules. 1966.

- |   |   |
|---|---|
| 1.Name and designation of inspecting authority or officer appointed or having jurisdiction under any other Act or Law   | : Er. R. Premkumar<br>B.E (Civ & Stru)., M.E (Geo-Tech)., M.Sc (Rev)., MIE, FIV, IIT Arb, (Ph.D),<br>Reg. Structural Engineer Gr-I:<br>126/KPA/RSE/2018-19.<br>No.286, Bharathiyar Road, Karaikal – 609 602.<br>Branch: Nagapattinam, Chidambaram & Puducherry. |
| 2.Location of the building inspected D.No. Street No. Name of place i.e. Municipal corporation / Municipality / Panchayat or Panchayat Union / Township / Contonment. | : M/s. SMV School,<br>Madukarai Road, Madagadipet,<br>Puducherry -605107.   |
| 3.Date of Inspection  | : 13.07.2023  |
| 4.Purpose for which the building is used  | : Class room, Administrative office, Principal room, Staff room, Laboratories, Multipurpose hall and Toilets  |
| 5.Nature of defects noticed   | : Nil   |
| 6.Suggestion of rectifying defects  | : Nil   |
| 7.If in a dangerous condition immediate action recommended to be taken  | : Nil   |

Date : 13.07.2023

**Er. R. PREMKUMAR,**  
 B.E (Civ & Stru), M.E (Geo-Tech), M.Sc (REV), M.I.E, F.I.V, IIT Arb,  
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 Reg. Structural Engineer GR-I (KPA) : 126/KPA/RSE/2018-19  
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**FORM NO 8**  
**CERTIFICATE OF UNDERTAKING**  
**FOR MULTISTOREYED/ SPECIAL/ GROUP DEVELOPMENT BUILDINGS**  
**SAFETY REQUIREMENT**

To  
The Commissioner,  
Puducherry Municipality,  
Puducherry - 605001.

REF: NEWLY CONSTRUCTED "KINDERGARTEN BLOCK AND MAIN BUILDING BLOCK" FOR M/s. SMV SCHOOL AT MADUKARAI ROAD, MADAGADIPET, PUDUCHERRY -605107.

- (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



CORRESPONDENT


SMV SCHOOL

Madukarai Road, Madagadipet,  
Puducherry-605 107.

Signature of Developer with Date

Name in Block Letters:

Address:

  
Registered Structural Engineer on

Record with Date

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Branch: Nagapattinam, Chidambaram & Puducherry.  
Mobile: 9443859977

Signature of the Architect/ Engineer  
on Record with date.

Name in Block Letters:

Address:



**FORM NO: 10**

**CERTIFICATE OF UNDERTAKING OF REGISTERED STRUCTURAL ENGINEER**

To

The Commissioner,  
Puducherry Municipality,  
Puducherry - 605001.

**REF: NEWLY CONSTRUCTED "KINDERGARTEN BLOCK AND MAIN BUILDING BLOCK"  
FOR M/s. SMV SCHOOL AT MADUKARAI ROAD, MADAGADIPET, PUDUCHERRY -605107.**

Owner : **M/s. SMV SCHOOL,  
Madukarai Road, Madagadipet,  
Puducherry -605107.**

Tel No.:

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. R. PREMKUMAR,**

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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"> <li>Name of the Building</li> <li>Plot Number</li> <li>Sub Plot Number</li> <li>Village <ul style="list-style-type: none"> <li>a) Name</li> <li>b) R.S./T.S. Number</li> </ul> </li> <li>Locality/Township</li> <li>District</li> </ul>    | <b>REF:NEWLY CONSTRUCTED<br/>"KINDERGARTEN BLOCK<br/>AND MAIN BUILDING<br/>BLOCK" FOR M/s. SMV<br/>SCHOOL AT MADUKARAI<br/>ROAD, MADAGADIPET,<br/>PUDUCHERRY -605107.</b> |                |
| (2)    | Name of the owner   | <b>M/s. SMV SCHOOL</b>  |                |
| (3)    | Name of the Builder   |   |                |
| (4)    | Name of Registered Architect/Engineer   |   |                |
| (5)    | Name of Registered Structural Engineer  | Er. R. Premkumar  |                |
| (6)    | Use of the building   | Institutional Building<br>(Kindergarten and Main Building<br>Block)   |                |
| (7)    | Number of storey's above ground level<br>(including storey's to be added later, if any)   | G+2 & G+3   |                |
| (9)    | <b>Type of Structure</b> <ul style="list-style-type: none"> <li>Load bearing walls</li> <li>R.C.C. frame</li> <li>R.C.C. frame &amp; shear walls</li> <li>Steel frame</li> </ul>  | RCC Framed Structure with some<br>monolithic and AAC block work   |                |
| (10)   | <b>Dead loads (unit weight adopted)</b> <ul style="list-style-type: none"> <li>Earth</li> <li>Water</li> <li>Brick masonry</li> <li>Plain Cement Concrete</li> <li>Reinforced Cement Concrete</li> <li>Floor finish</li> <li>Other fill materials</li> <li>Piazza floor fill and landscape</li> </ul> | 1600 Kg/m <sup>3</sup><br>1000 Kg/m <sup>3</sup><br>1920 Kg/m <sup>3</sup><br>2400 Kg/m <sup>3</sup><br>2500 Kg/m <sup>3</sup><br>125Kg/m <sup>3</sup><br>-<br>-          | IS:875 Part 1  |
| (11)   | <b>Imposed (Live) loads</b> <ul style="list-style-type: none"> <li>Piazza floor accessible to Fire Tender</li> <li>Piazza floor not accessible to Fire Tender</li> <li>Floor load</li> <li>Roof load</li> </ul>   | -<br>-<br>500 Kg/m <sup>2</sup><br>200Kg/m <sup>2</sup>   | IS: 875 Part 2 |
| (12)   | Cyclone/Wind <ul style="list-style-type: none"> <li>Speed</li> <li>Design pressure intensity</li> </ul>   | 50m/s<br>150Kg/m <sup>2</sup>   | IS: 875        |
| (13)   | Seismic Zone  | Zone II   | IS: 875(2002)  |



|      |   |                                       |                      |
|------|---|---------------------------------------|----------------------|
| (14) | Importance Factor   | 1.5                                   | IS: 1893<br>Table 8  |
| (15) | Seismic Zone Factor (Z)   | 0.10                                  | IS: 1893<br>Table 2  |
| (16) | Response reduction factor                                       | 3(Ordinary moment Resistant<br>Frame) | IS: 1893<br>Table 7  |
| (17) | Fundamental natural period – approximate                        | 0.245 sec                             | IS: 1893<br>Cl.7.6   |
| (18) | Design horizontal acceleration spectrum value (A <sub>h</sub> ) | 0.0147                                | IS: 1893<br>Cl.6.4.2 |
| (19) | Expansion / Separation Joints                                   | Nil                                   |                      |

|        |                                |                |
|--------|--------------------------------|----------------|
| Part 2 | Load bearing masonry buildings | Not applicable |
|--------|--------------------------------|----------------|

  
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FORM No. – 12 (Continued)

| Part 3 Reinforced concrete framed buildings |   |   |                    |
|---|---|---|--------------------|
| S.No.                                       | Description   | Information   | Notes              |
| (1)   | <b>Type of Structure</b> <ul style="list-style-type: none"> <li>• Regular frames</li> <li>• Regular frames with shear wall</li> <li>• Irregular frames</li> <li>• Irregular frames with shear wall</li> <li>• Soft storey</li> </ul>                                    | Regular Frame   | IS: 1893<br>Cl.7.1 |
| (2)   | Number of basement  | Nil   |                    |
| (3)   | Number of floors including ground floor   | 4   |                    |
| (4)   | <b>Horizontal floor system</b> <ul style="list-style-type: none"> <li>• Beam and Slabs</li> <li>• Waffles</li> <li>• Ribbed Floor</li> <li>• Flat slab with drop</li> <li>• Flat slabs without drops</li> </ul>   | Beam and Slab<br>Flat slab with drop                                      |                    |
| (5)   | <b>Foundations</b> <ul style="list-style-type: none"> <li>• Depth below ground level</li> <li>• Type                             <ul style="list-style-type: none"> <li>- Independent</li> <li>- Interconnected</li> <li>- Raft</li> <li>- Piles</li> </ul> </li> </ul> | Soil particulars attached vide<br>GT Report Project No: Ref:<br>G(C)9605A |                    |
| (6)   | <b>System of interconnecting foundations</b> <ul style="list-style-type: none"> <li>• Plinth beams</li> <li>• Foundation beams</li> </ul>   |   |                    |
| (7)   | Grades of concrete used in different parts of building  | M25 & M30   |                    |
| (8)   | Method of analysis used   | P delta analysis  |                    |
| (9)   | Computer software used  | Staad.Pro V8i-Software  |                    |
| (10)  | Base shear <ol style="list-style-type: none"> <li>a. Based on approximate fundamental period</li> <li>b. Based on dynamic analysis</li> <li>c. Ratio of a/b</li> </ol>  | 36 KN<br>Based on Dynamic Analysis  | IS: 1893 Cl.7.5.3  |
| (11)  | Distribution of seismic forces along the height of the building   | Included in the 3D Analysis   | IS: 1893 Cl.7.7    |
| (12)  | The column of soft ground storey specially designed   | N/A   | IS: 1893 Cl.7.10   |
| (13)  | Clear minimum cover provided in <ul style="list-style-type: none"> <li>• Isolated</li> <li>• Column</li> <li>• Beams</li> <li>• Slabs</li> <li>• Walls</li> </ul>   | 60mm<br>50mm<br>30mm<br>20mm<br>20mm                                      |                    |

|      |   |  |   |
|------|---|--|---|
| (14) | <b>Ductile detailing of RC frame</b> <ul style="list-style-type: none"> <li>• Type of reinforcement used</li> <li>• Minimum dimension of beams</li> <li>• Minimum dimension of columns</li> <li>• Minimum percentage of reinforcement of beams at any cross section</li> <br/> <li>• Maximum percentage of reinforcement at any section of beam</li> <br/> <li>• Spacing of transverse reinforcement of 2-d length of beams near the ends</li> <br/> <li>• Ratio of capacity of beams in shear to capacity of beams in flexure</li> <br/> <li>• Maximum percentage of reinforcement in column</li> <br/> <li>• Confining stirrups near ends of columns and in beam column joints <ul style="list-style-type: none"> <li>a) Diameter</li> <li>b) Spacing</li> </ul> </li> <br/> <li>• Ratio of shear capacity of columns to maximum seismic shear in the storey</li> </ul> | Fe 500<br>230x380<br>230x230<br>0.25%<br><br>2.0%<br><br>100mm<br><br>1.25<br><br>3.25%<br><br>8mm<br>100mm<br><br>0.9 | IS: 456 Cl.5.6<br>IS:13920 Cl.6.1<br>IS:13920 Cl.7.1.2<br>IS: 456<br>Cl.26.5.1(a)<br>IS :13920 Cl.6.2.1<br>IS:456<br>Cl.26.5.1.1(b)<br>IS:13920<br>Cl.26.5.1.1(b)<br>IS:13920 Cl.6.2.2<br>IS:13920 Cl.6.3.5<br><br>IS:456 Cl.26.5.3.1<br><br>IS:13920Cl.7.4 |
|------|---|--|---|

Part 4

Buildings in Structural Steel

Not applicable



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Branch: Nagapattinam, Chidambaram & Pudukcherry.

Mobile: 9443859977



## CERTIFICATE OF STRUCTURAL SOUNDNESS

This is to certify that the **REF: NEWLY CONSTRUCTED "KINDERGARTEN BLOCK AND MAIN BUILDING BLOCK" FOR M/s. SMV SCHOOL AT MADUKARAI ROAD, MADAGADIPET, PUDUCHERRY -605107** is designed by me and the salient technical details are furnished below.

- |  |   |   |
|--|---|---|
| 1. Type of Structures                                    | : | R.C.C framed structure with monolithic and AAC block walls. |
| 2. Safe bearing capacity of soil at 2.0m depth below NGL | : | 13.5T/m <sup>2</sup>  |
| 3. Maximum load at critical Column section.              | : |   |
| 4. Suggested depth of Foundation.                        | : | 2.0m  |

### II SUPER STRUCTURE:

- |                          |   |   |
|--------------------------|---|---|
| (I) Type of construction | : | R.C.C Framed Structure with Monolithic and Shear Wall |
| (II) Class of Building   | : | Type – I class construction                           |
| (III) Usage              | : | Institutional Building                                |
| (IV) Concrete Grade      | : | M25 & M30   |
| (V) Steel Grade          | : | Fe 500  |

The structural soundness of the building has been verified by me with ref. to IS875 and IS 456-2000 and I have taken into consideration of the earth quake resistant design as per IS 1893-2000 and I declare that the building would be structurally sound for the institutional purpose. The design details and drawings are enclosed in the annexure.

  
ENGINEER SIGNATURE

**Er. R. PREMKUMAR,**  
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