



Ref. No.

February 8, 2019

**To whom so ever it may concern**

This is to certify that D.A.V. PUBLIC SCHOOL which is situated at A.C.C. COLONY, WADI, GULBARGA DIST. KARNATAKA, is being inspected by the undersigned on 08.02.2019. The School building has been found structurally fit & sound and constructed comprehensively for the safe conduct of classes.

Junior Engineer  
Town Municipal Council  
WADI

**PRINCIPAL**  
**DAV PUBLIC SCHOOL**  
CBSE Affn. 830029, ACC Colony,  
Wadi, Karnataka - 585 225.



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**STRUCTURAL SAFETY AUDIT REPORT OF D.A.V PUBLIC  
SCHOOL BUILDING AT ACC COLONY, WADI IN KALABURAGI  
DISTRICT OF KARNATAKA STATE.**

**Observations from site& drawings:**

- 1) The existing structure is found to be stable and intact.
- 2) The columns of the existing structure is supported on isolated footing.
- 3) The columns and footings are in good and stable conditions resting on rocky strata.
- 4) The grade of concrete used is M20 and grade of steel used is Fe415.
- 5) The structure is resting on hard rocky strata.

**Suggestions:**

- 1) Regular maintenance of building structure must be carried out.

**Conclusions:**

On the basis of physical observation and structural investigation the existing structure is safe and stable from strength and serviceability criteria.

Site Inspected & Analysed By:


**Er. Vikram Desurkar**

M.Tech (Structural Engineering)

**Er. Hemant Sonawadekar**

M.Tech (Structural Engineering)

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## Repair and Maintenance of Building Structure:

### General Structures:

- 1) **Foundations:** Must be checked for settlement, rising dampness.
- 2) **Masonry works:** Must be checked (dampness in walls, cracks in walls of buildings ,shrinkage cracks in plaster, green stains in brick work, etc).
- 3) **Concrete and reinforced concrete work:** Must be checked for corrosion of steel and cracking of concrete, defects in design and methods of repair of defects in reinforced concrete (RC) members).
- 4) **Steel members:** Must be checked for corrosion and loss of paint on steel members.
- 5) **Finishing works:** (painting, polishing etc of all the components of the building).
- 6) **Underground and overhead storage tanks:** They need regular maintenance, after some period of their use, they both need repairs. if regular maintenance works are not made, then major repair and rehabilitation is to be made soon.
- 7) **Water supply inside the building:** Modern ultraviolet UV-resistant plastic pipes are more preferred.
- 8) **Electric Supply:** Safety devices like earth leakage circuit breaker switch and modern safety electric appliances should be installed.
- 9) **Cleaning of manholes, sumps and septic tanks:** maintenance must be carried out regular basis.
- 10) **Rain water harvesting:** maintenance of manholes and connecting pipes must be carried out regular basis.
- 11) **Special repairs :**
  - a) After few years it is better to remove the existing paint from various members completely and repaint them as everything in this world has a period of good performance.
  - b) Waterproofing work of members will work well only for a limited period but regular maintenance and special repairs are required after that period.
  - c) Repair of water closet, lock of the doors
  - d) Repair or replacement of doors, windows, etc.
  - e) Repair of water tanks, water cistern etc.



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12) Good Drainage system all round the Building/Structure must be maintained to runoff the discharge of water.

**Building/Structures which has a good programme of regular maintenance performs very well and efficiently for a very long time.**

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