



**ACHARYA'S NRV SCHOOL OF ARCHITECTURE**  
**SOLADEVANAHALLI, BENGALURU -560107**

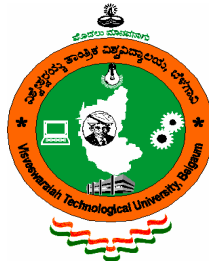
**GOVT. RESIDENTIAL SCHOOL**  
**ARCHITECTURE DESIGN PROJECT (THESIS) – 2023-24**

**Submitted in partial fulfillment of the Requirements for the**  
**“Bachelor of Architecture” Degree Course**

Submitted by : KUSHAL R SETTY  
USN : 1AA18AT029  
Guide : Ar. PAVITHRA T

A project report submitted to  
**VISVESHWARAYA TECHNOLOGICAL UNIVERSITY**  
**“Jnana Sangama”, Machhe, Belgaum – 590018**

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ - ೫೯೦೦೧೮



## **CERTIFICATE**

This is to certify that this thesis report titled GOVT. RESIDENTIAL SCHOOL by KUSHAL R SETTY of IX SEMESTER B. Arch, USN No. 1AA18AT029, has been submitted in partial fulfillment of the requirements for the award of under graduate degree **Bachelor of Architecture (B.Arch)** by Visveshwaraya Technological University VTU, Belgaum during the year 2023- 24.

**Guide: Ar. PAVITHRA T**

**Principal**

**Examined by :**

1)Internal Examiner :

2)External examiner 1 :

3)External examiner 2 :

## **DECLARATION**

This thesis title “GOVT. RESIDENTIAL SCHOOL”, submitted in partial fulfillment of the requirement for the award of the under graduate of Bachelor of architecture is my original work to the best of my knowledge.

The sources for the various information and the data used have been duly acknowledged.

The work has not been submitted or provided to any other institution/ organization for any diploma/degree or any other purpose.

I take full responsibility for the content in this report and in the event of any conflict or dispute if any, hereby indemnify Acharya’s NRV School of Architecture and Visveshwaraya Technological University, Belagavi, and its official representatives against any damages that any raise thereof.

**KUSHAL R SETTY**

**1AA18AT029**

## ABSTRACT

The architectural design project aims to develop an innovative and sustainable government school. Focused on low-cost structures and materials, the design prioritizes functionality, and environmental responsibility.

Key design elements include the use of rammed earth, and other locally sourced materials to create structurally sound, cost-effective buildings. The integration of renewable energy sources, rainwater harvesting, and smart building systems further aligns the project with principles of sustainability.

The project aligns with global priorities of ensuring access to quality education for all. By creating an innovative school, it aims to make a positive social impact on the local community, providing a unique design that inspires future educational spaces.

The integrated educational ecosystem encompasses a government school, PU colleges, coaching centers, and vocational training programs on one campus, offering a seamless educational pathway. Specialized coaching for competitive exams and vocational training empowers students with practical skills, ensuring a comprehensive educational experience.

## **TABLE OF CONTENTS**

ABSTRACT.....	4
INTRODUCTION.....	7
AIM.....	7
OBJECTIVE.....	7
JUSTIFICATION.....	7
SCOPE.....	8
PROJECT HIGHLIGHTS.....	8
SAMAGRA SHIKSHA SCHEME.....	9
LITERATURE STUDY.....	11
RAJKUMARI RATNAVATI GIRL'S SCHOOL.....	11
ENGLAND ELEMENTARY SCHOOL.....	13
CASE STUDY.....	17
KENDRIYA VIDYALAYA NO. 1.....	17
RANE VIDYALAYA.....	20
COMPARATIVE ANALYSIS.....	25
STANDARD STUDY.....	26
AREA STATEMENT.....	29
SPECIAL STUDY.....	31
SITE ANALYSIS.....	33
BIBLIOGRAPHY.....	37

## **INTRODUCTION**

- The project aims to design a school that caters to the educational needs of children in Karnataka with a futuristic approach. The school offers a favorable environment for the overall development of students. The design of the school will focus on creating an inspiring and safe space that nurtures and supports students' growth and development.
- The goal is to break the traditional mold of schools and bring in new design approaches that can promote creativity and innovation, among students.

## **AIM:**

To design an innovative school in Chitradurga, that provides an inspiring learning environment for students, enhances their educational experience, and promotes their comprehensive development.

## **OBJECTIVE:**

- Designing the school in a way that allows for flexibility in its usage. The spaces should be adaptable to different teaching methods and activities, so that the school can evolve with changing educational needs.
- Incorporating modern technology integrated into its design, such as smart classrooms and digital libraries.
- Design spaces that encourage collaboration and interaction among students, teachers, and staff, such as open spaces, break-out areas, and multipurpose rooms.
- Ensure that the design of the school promotes the well-being and comfort of the students and staff. This can be achieved through natural light, ample ventilation, and comfortable furniture.

## **JUSTIFICATION:**

- The education system in India is constantly evolving, and there is a need to design schools that cater to the needs of students in the 21st century.