

**Mini Project Report**  
**on**  
**PLANNING OF A SENIOR SECONDARY SCHOOL**

**Submitted to**  
**DEPARTMENT OF CIVIL ENGINEERING**

**Submitted by**  
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**Under the Guidance**  
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**DEPARTMENT OF CIVIL ENGINEERING**  
**INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)**  
(A Central University established by the Central Universities Act No. 25 of 2009)

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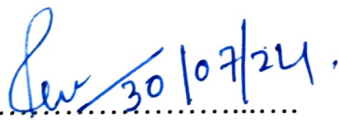
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**CERTIFICATE**

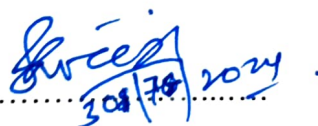
This is to certify that, the Mini Project work entitled '**PLANNING OF A SENIOR SECONDARY SCHOOL**' presented by **Mr. Sumit Ratre** (Roll No.- 22024144), **Mr. Manish Kumar** (Roll No.-22024119) and **Mr. Rahul Kumar Singh** (Roll No.- 22024130), students of B. Tech, 2<sup>ND</sup> Year, IV Semester, Civil Engineering, Guru Ghasidas Vishwavidyalaya, SoS Engineering & Technology, Bilaspur (C.G.) is satisfactory and accepted by the Department of Civil Engineering.

Signature.....30/07/24.

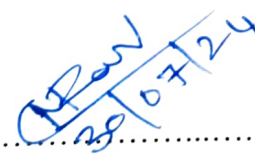
**Prof. R.K Choubey**  
Guide

Signature.....30/07/24.

**EXTERNAL EXAMINER - 1**

Signature.....30/07/2024.

**EXTERNAL EXAMINER - 3**


Signature.....30/07/24

**Prof. M. C. RAO**

Head of department

Department of Civil Engineering

SoS (E & T), Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur

Signature.....

**EXTERNAL EXAMINER - 2**

Signature.....

**EXTERNAL EXAMINER - 4**

## ABSTRACT

For a Civil Engineer it is desirable to have exposure in planning of a building structure and analyze the same after structural designing. At this juncture we felt inclined to take up the first part of planning of a senior secondary school with all the facilities as per standards. In this regard, the guidelines contained in the National Building Code (NBC), GRIHA Norms, Kendriya Vidyalaya (KV) Norms etc. have been browsed and referred for planning.

The planning of the proposed educational building with total covered area of 0.815acre, as per the NBC guidelines have been carried out. The (G+1) framed structured building contains 14 classrooms, 4 laboratories, Staff rooms, Library, Laboratories, Lavatories, Stores, Office etc. fulfilling the requirements of NBC has been considered and incorporated in the plan. The number of stair cases and corridors have been designed as per the standards. The building plan have hurdle free accessibility for the especially abled Diyang-jans. All the dimensions of the rooms etc have been considered to meet the minimum dimensions as prescribed in NBC and KV school norms.

The orientation of the buildings and the placements of rooms & facilities are as per the Sun diagram by following the principal of building planning. All the desired safety norms, openings for appropriate light & air ventilation as per GRIHA standards have been adopted in the plan. The school has been facilitated with the appropriate space for sports, Yoga and meditation in line with the government directions. The space for flora & fauna for plantation to create an ambient environment have been also included in the plan. The plan, sectional view and elevations have been created using the AutoCAD 2024.