

A Major Project Report

on

**PLANNING, ANALYSIS AND SEISMIC DESIGN OF RCC
OVER HEAD WATER TANKS FOR AN INTEGRATED
WATER DISTRIBUTION SYSTEM OF GGV**

Submitted in the partial fulfilment for the award of degree of
Bachelor of Technology in Civil Engineering

by

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B. Tech, VIII Semester

Under the Guidance of

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DEPARTMENT OF CIVIL ENGINEERING
SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY
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(A Central University)

SESSION 2023-24

DEPARTMENT OF CIVIL ENGINEERING
SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY
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CERTIFICATE

Certified that the major project entitled **“PLANNING, ANALYSIS AND SEISMIC DESIGN OF RCC OVER HEAD WATER TANKS FOR AN INTEGRATED WATER DISTRIBUTION SYSTEM OF GGV”** submitted by **SATYENDRA PAL SINGH, LINGALA RAJKUMAR and GORIKALA CHANDU** in partial fulfilment of the requirements of the award of degree of Bachelor of Technology in Civil Engineering, School of Studies of Engineering & Technology, Guru Ghasidas Vishwavidyalaya Bilaspur, is accorded to the student's own work, carried out by them in the Department of Civil Engineering during session 2023-24 under supervision and guidance.

Signature _____

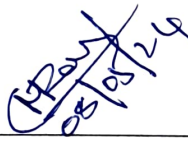

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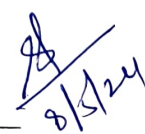
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ABSTRACT

In this project, we have planned, analyzed and designed an overhead reinforced cement concrete tank, to cater to requirements of GGV. The population of the university is estimated as 27105 using conventional population forecasting methods. For this requirements, overhead water tank is planned using the popular drafting software AutoCAD. It is further analyzed using the premiere analysis software STAAD PRO. Based on the analysis using STAAD PRO, the salient features of the overhead Intze water tank is manually designed. The design and detailed drawings are presented in this project work