

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,BELGAUM



**SHRI DHARMASTHALA MANJUNATHESWARA COLLEGE OF ENGINEERING
& TECHNOLOGY, DHARWAD – 580002, KARNATAKA, INDIA**
(Autonomous Institution under Visvesvaraya Technological University,Belgaum-590018)

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Project On

IMPROVEMENT OF ROAD AND RAILWAY OVER BRIDGE NH-4

**SPONSORED BY-KSCST
UNDER STUDENTS PROJECT PROGRAMME 35th SERIES**

Under the Guidance of

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35S0984**

**BATCH
A**

DEPARTMENT OF CIVIL ENGINEERING

ABSTRACT:

This is a project to apply the knowledge derived through highway engineering and structural design to understand the underlying principles of design. Presently there exists a **Two Lane NH 4** road which is to be improved to **Four Lane NH 4** road due to increasing traffic volume.

The design of highway includes survey works like **Map surveying** using which it is possible to suggest likely routes of the road, location of bridges for railway crossing, to avoid valleys, ponds etc. **Reconnaissance survey** which is the second stage of survey to examine the general character of area for deciding most feasible routes for detailed studies. **Preliminary survey** used to select the alternate alignment proposed after the reconnaissance and to collect all the necessary physical information and details of topography, drainage, soil and it recommends only one particular route in preference to other alternatives. **Detailed survey** which should be carried out for collecting information necessary for preparation of plans and construction details for highway project. In the present context we are using **Total Station** for surveying for about **2KM**. Preparation of drawings and pavement design are based on the design principles as mentioned in IRC code.

In modern highway and railway constructions bridges and fly-over form important elements. Bridges allow the transport system without any congestion or delay and permits quick efficient use of Nation's transportation system. In the present context we are designing **RCC ROB** to carry the future traffic.