Guru Ghasidas Vishwavidyalaya, Bilaspur

Summer Internship Report 2024

A report on

DESIGN OF A FLEXIBLE PAVEMENT

Submitted In partial fulfillment of the requirements for the award of degree of

BACHELOR OF TECHNOLOGY

in

CIVIL ENGINEERING

Submitted by:

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(20102035)

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No. 455 Dated. 13/6/2024

Certificate

It is to certified that ***Mr. Nitin Sharma****, B. Tech IIIrd Year Student of Department of Civil Engineering, Guru Ghasidas Vishwavidyalay in compliance of the Associate TPO (Internships), Civil Engineering, Guru Ghasidas Vishwavidyalay Bilaspur letter no. 57B/CE/Sos, E&T/GGV/2024 date 12.04.2024 to practical training has undergone at P.W.D Division Jhalawar for Civil Engineering works from 16 May, 2024 to 14 June, 2024 & he has trained successfully.*

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ABSTRACT

Pavements are required for the smooth, safe and systematic passage of traffic. Pavements are generally classified as flexible and rigid pavements. Flexible pavements are those which havelow flexural strength and are flexible in their structural action under loads. Rigid pavements are those which possess note worthy flexural strength and flexural rigidity.

The profound development in the automobile technology has resulted heavy moving loads on the existing highways for optimization of the transport cost. The existing roads which are designed based on the thumb rules are not able to cater to the heavy wheel loads resulting in the deterioration of the existing roads.

In the project report, an attempt is made to design a road at JHALAWAR, based on the principles of pavement design. On the existing alignment of the road, soil samples are collected for the determination of soil characteristics like consistency limits, sieve analysis, C.B.R. values etc., Based on this the thickness of the pavement (flexible) is designed. The alignment of the road is also designed and fixed by surveying and leveling. The total road length being 71 KM JHALAWAR BARRAN ROAD.