

SUMMER TRAINING REPORT

ON

Construction and Maintenance works of Roads in Distt Mau Package No UP 5188

A report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING



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2024-25

कार्यालय अधिशासी अभियन्ता
प्रान्तीय खण्ड, लो0नि0वि0,

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दिनांक 19-06-2024

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विषय:- ग्रीष्म कालीन प्रशिक्षण के सम्बन्ध में।

सन्दर्भ:- 59/4E/SOS.E&T/44V/BSP/2024 Date: 13.04.2024

आपके उपयुक्त सम्बन्धित पत्र के क्रम में श्री/कुमारी आंकित कुमार भारद्वाज
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सहायक अभियन्ता श्री सौरभ सिंह के अधीन
दिनांक 13.05.2024 से 13.06.2024 तक प्रशिक्षण कराया गया है। सूचनार्थ प्रेषित
है।

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प्रेषित।

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ABSTRACT

The construction of flexible pavements by the Public Works Department (PWD) plays a crucial role in ensuring durable and cost-effective road infrastructure. This study investigates the methodology, results, and implications of PWD's approach to flexible pavement construction, aiming to provide insights for future projects and improvements in road engineering practices.

Flexible pavements are designed to distribute loads over a wide area, accommodating varying traffic loads and environmental conditions. The PWD employs a systematic approach to pavement construction, focusing on materials selection, design parameters, and construction techniques to achieve optimal performance and longevity.

The methodology employed by PWD integrates rigorous material testing, pavement design calculations, and construction practices compliant with industry standards. Key aspects include subgrade preparation, aggregate selection, asphalt mix design, and quality control measures during construction.

The results of PWD's flexible pavement construction efforts demonstrate significant improvements in road durability and performance metrics. Through comprehensive quality assurance protocols and adherence to design specifications, PWD has successfully mitigated issues such as rutting, cracking, and structural failures, thereby enhancing road safety and user comfort.

In conclusion, PWD's approach to flexible pavement construction underscores the importance of meticulous planning, technical expertise, and quality management throughout the project lifecycle. The successful implementation of standardized procedures and advanced materials has contributed to the overall reliability and resilience of road networks under varying traffic and environmental conditions.

Based on the findings, recommendations include further research into innovative pavement materials, enhanced construction techniques for sustainable road development, and continued investment in training programs for engineers and technicians involved in pavement construction. These initiatives are essential for maintaining the integrity and efficiency of road infrastructure managed by the Public Works Department.