

OPTIMIZATION OF JUTE GEOTEXTILES IN PAVEMENT DESIGN

STATE OF THE ART

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ABSTRACT

Permeable textiles, used in association with geotechnical engineering related material, as an integral part of a man made project is called GEOTEXTILES. It has the ability to filter, reinforce, protect and drain. JUTE, a wholly renewable, bio degradable, naturally available geo textile is produced in abundance in India. Design of pavement using JGT is a boon to rural roads which enhances the aesthetic appearance also with benefits in lifecycle increment. Fortunately the economic aspect also in acceptance range. Coupled with the software analysis of designing a JGT incorporated road and comparing the ordinary flexible pavement, jute geotextile incorporated flexible pavement last longer than the usual roads.

KEYWORDS: Geotextile, Reinforcement, Aesthetic, Eco-Friendly, Long Life-Cycle