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Research & Innovation

विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

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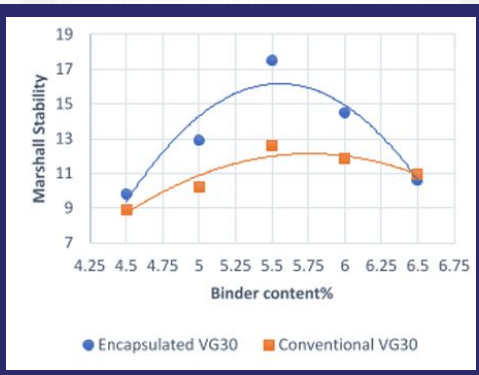
Bio-based encapsulated bitumen pellets and method of preparing the same



NEED

Significant energy and fuel loss occur when trucks transport bitumen, especially if not transported at full capacity, due to heating requirements

SOLUTION

Introduces bio-based encapsulated bitumen pellets using agar, sorbitol, glycerol, and water, allowing for unheated transport, storage, and mixing, enhancing efficiency.

INNOVATION

The encapsulated bitumen pellets, utilizing a sustainable seaweed-derived agar mixture, represent a significant advancement in bitumen transport and handling, reducing energy and fuel consumption while promoting environmental sustainability

MARKET ANALYSIS

Market: Construction and Road Building

CAGR: Approximately 3-4% growth anticipated due to increasing demand for sustainable and efficient building materials

Potential Indian Clients: Road construction companies, municipal corporations, infrastructure development agencies

WHY INVEST?

Bitumen Pellets
Voids in Mineral Aggregate (VMA)
Environment-friendly
Energy conservation

AT A GLANCE

- Current TRL NA
- Funded by NA
- IPC A61K, C08K, C08L, C10G, C11D
- Domain
  Sustainable Construction Materials

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