

Granted IN201711033016

Treatment process for cellulose based geotextile and geotextile obtained therefrom



NEED

There is a pressing technical challenge in the geotechnical engineering field to develop a cost-effective method that enhances the durability of cellulose-based geotextile fibers without compromising their structural integrity.

SOLUTION

The invention presents a process involving the treatment of cellulose-based geotextile fiber with a polymerized blend obtained from an aqueous alkaline solution and coal combustion byproduct.

INNOVATION

The process involves preparing an aqueous alkaline solution, reacting coal combustion byproduct with the solution to obtain a polymerized blend, and applying this blend to the geotextile fiber.

MARKET ANALYSIS

Market: Construction, environmental sectors.
CAGR: 9-11%, driven by demand for sustainable materials.

Potential Indian Clients: Construction firms, government projects.

WHY INVEST?

- Geotextiles
- Cellulose-based
- Coal combustion byproduct
- Alumino-silicate

AT A GLANCE

- Current TRL NA
- Funded by NA
- IPC D21B
- Domain
Eco-friendly geotextile treatment.



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