# ROT RESISTANT NATURAL DURABLE JUTE GEO-TEXTILES

The synthetic Geo-textiles, manufactured from by-products of petroleum, are becoming costlier and moreover, ecological considerations do raise doubts about the long term effect of indiscriminate application of such synthetic materials. Whereas, Natural Geo-textiles are ecologically safe as they are biodegradable and leaves no residue to environment. Out of several available natural Geo-textiles, Jute Geo-textiles is of prime importance due to the properties like hydraulic, tensile strength, Trapezoidal tear strength, porosity and permeability etc. which are more or less comparable with synthetic textiles. But there are some very important Geo-technical applications where the functional requirement of JGT cannot be adequately met due to the short life of the jute geo-textiles than its actual requirement for such application.

**SALIENT FEATURES:**

The present invention advantageously gives selective natural fibrerute fabric treated with treatment media which does not involve the use of environmentally hazardous chemicals such as copper based salts and bitumen used in the known art. Preferably, the treatment media includes selective textile friendly, anti-microbial both leachable and non-teachable type adapted in natural fibres especially jute. Non-leachable type of anti-microbial is preferred as they are expected to impart durable rot- resistant property to Jute Geo-textile

**ADVANTAGES:**

- These geo-textiles are eco-friendly.
- Retain the desired characteristic of a natural fibre based geo-textiles such as permeability, flexibility.
- Light-weight and cost-effective.
- These do not possess any hormonal properties

**Scale of Development:** Technology integration

