






  
**Jeevan**  
Ecotex  
Sustainable Weaves

Roadways

Geosynthetics have been successfully used to fulfil a number of functions that contribute significantly to the good performance of roadways. They include the functions of separation, filtration, reinforcement, stiffening, drainage, barrier, and protection.

## Key Applications

Application	Functions	Products Used
 <p>Stabilization and Reinforcing of pavement layers</p>	<ul style="list-style-type: none"> <li>✔ Mitigates the development of reflective cracks</li> <li>✔ Increases the structural capacity of paved roads</li> </ul>	Nonwoven Paving Fabric
 <p>Erosion control of road embankments</p>	<ul style="list-style-type: none"> <li>✔ Subgrade stabilization</li> <li>✔ Provides additional erosion prevention</li> </ul>	EcoCell, EcoTextiles
 <p>Construction of new roads</p>	<ul style="list-style-type: none"> <li>✔ Reduce the thickness of road embankment layers</li> <li>✔ Increase CBR durability speed of road construction</li> <li>✔ Separation and filtration</li> <li>✔ Effective separator by preventing mixing of the subgrade and base aggregate materials</li> </ul>	EcoGrid, EcoCell, EcoTextile, EcoNet, EcoPipe

All products are adhering to **IRC-SP59,SP37 MORTH700-702** for roads and bridges.

# Products Used



**EcoTextile**



**EcoGrid**



**Corrugated  
Perforated Pipe**



**EcoCell**



**Paving fabric for  
asphalt overlay**

## Benefits



### **Bearing capacity**

Road construction requires subgrade to be stable with sufficient bearing capacity. Using geogrids between the subsoil and base course increases the bearing capacity and also reduces the base course thickness. This method eliminates the need for expensive soil exchange.



### **Rutting**

By improving load distribution, geogrids lead to minimizing both rutting and soil intermixing, which is a primary concern while building unpaved roads on soft subsoil.



### **Force-elongation**

The low elongation characteristics of a geogrid are what makes a successful reinforcement application. The force absorption at elongation requires products with 2% to 5% capacity in most projects. More demanding applications have products with up to 8% elongation at break.



### **Installation robustness**

Geogrids with thick monolithic reinforcement bars can withstand high dynamic stresses while installing and compacting cover soils and base course materials.



### **Cost effectiveness**

Geosynthetics are a more cost-effective and efficient method over other alternatives in a variety of applications. They improve the bearing capacity of the soil, make the roads stronger and more reliable and prevents expensive soil excavation and re-compaction.



## About Us

Jeevan Ecotex is a leading manufacturer of technical textile with state-of-the-art manufacturing facilities at multiple locations. It is an **ISO 9001: 2015 certified company**, providing customised solutions.

## Why Jeevan Ecotex

We are uniquely placed as the only major nonwoven player with in-house R&D capabilities and multiple manufacturing units in Maharashtra, India. Other advantages are

- ✔ Strong brand association with reputed clients
- ✔ Continuous online monitoring of production
- ✔ Products customized as per requirements
- ✔ Cost-effective environment-friendly manufacturing
- ✔ Fast turnaround times

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