Water is a crucial part of one’s life. Despite the forces of environment often combining to challenge man’s attempts to save water, man has also developed awareness of drainage; controlling water sometimes becomes unpredictable and destructive.

Drainage refers to the methods which direct the movement and distribution of surplus water, thereby maximizing the benefits and minimizing its undesirable effects.

The threats of poor drainage are proven:

- Damage of property and harvests
- Slope and structural instability
- Increased operating, maintenance and insurance cost
- Potential health risk and worst threat of life.

The challenge of Techfab India is moving towards a broader engineering arena by pursuing vertical integration with an extensive range of Product manufacturing, Innovation of new engineered products and on time supply to the Indian and International market.

TechFab drainage composite is a planar drainage manufactured by thermo bonding a drainage core - Geonet comprises of two sets of parallel overlaid ribs integrally connected to have a rhomboidal shape and nonwoven geotextile, working as separation, filtration and protection layer.

About TechFab Drainage composites, these are prefabricated subsurface drainage products which directly replace the granular drainage layer. Geotextile acts as a filter and separator on one or both sides. This allows water to pass through into the polymer core but prevents the soil from washing away. Geocomposite drainage material consists of a combination of geotextile and drainage net. Where geotextile is heat laminated to one or both sides of geonet. Geocomposite is a subset within the family of geosynthetic material. They are used as composite component in hydraulics as well as in environmental, geotechnical, and transportation applications.

TechFab Drainage composite is useful in a multitude of applications like Reinforced Soil Wall back drainage, Canal lining, Landfill site drainage, Pavements and Road Construction- Highway roadbed and Road surface drainage, drainage, highway roadbed and road surface drainage.
railway system water drainage, tunnel drainage, underground structure drainage, roof garden and stadium drainage, etc.

With the help of this particular product, one can gather the required features of all the materials for a common problem solution in a very effective manner. The main objective of Geocomposite material, is to combine the best features of different materials in such a way that specific problems are solved in optimal manner providing optimum performance and minimum cost.

Advantages of TechFab Drainage composites

• Cost effective solution over conventional drainage layer in canal lining. And also to traditional stone drainage layer.
• It is light and easy to handle, they are quick to install and demonstrate a cost effective replacement to conventional materials.
• Acts as drainage and protection layer due to its high puncture resistance.
• Provides and maintains high flow paths for water and gases, therefore maintains soil stability beneath the canal bed and slope.
• Filtration properties are suitable for most soil types.
• Robustness of drainage composite prevents puncturing and tearing during installation.

TechFab Drainage composites have strengths which can adequately resist soil pressure on slopes and distribute concentrated forces preventing local shear failure.