



TECHFAB INDIA

At the Heart of Geosynthetic Activity

NEWSLETTER

JULY 2021, VOLUME I

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Techfab India's first-ever email newsletter!

This is a pretty exciting moment for us, and we want to include YOU in our first e-newsletter! Some of you may know us well, and some of you may have only heard of us. For those of you who work with us regularly, thanks for all the great work you do.

For those of you who are getting to know us, we are the Domestic manufacturer of geosynthetics products with Vision to be the Largest Geosynthetic Manufacturer Globally and fulfill every need of our customers through innovative environment friendly and cost effective solutions.

TFI presentation at your Desk at your convenience:



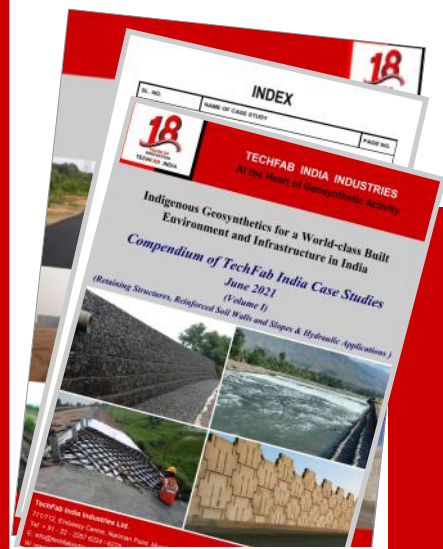
During these uncertain times, as most people continue to work remotely from home, we are now offering online presentations for clients around the world. Please feel free to get in touch by clicking above to set up a time and date that suits your company for clients anywhere in the world. Alternatively, email info@techfabindia.com

Compendium of TechFab India Case Studies, June 2021

We are happy to Introduce Compendiums of TechFab India which is the collection of our selected Case histories, highlighting the use of vast range of Geosynthetics products in various geotechnical and hydraulic applications.

Volume I - Retaining Structures, Reinforced Soil Walls and Slopes & Hydraulic Applications

Volume II - Roads, Railways & Other Geotechnical Applications

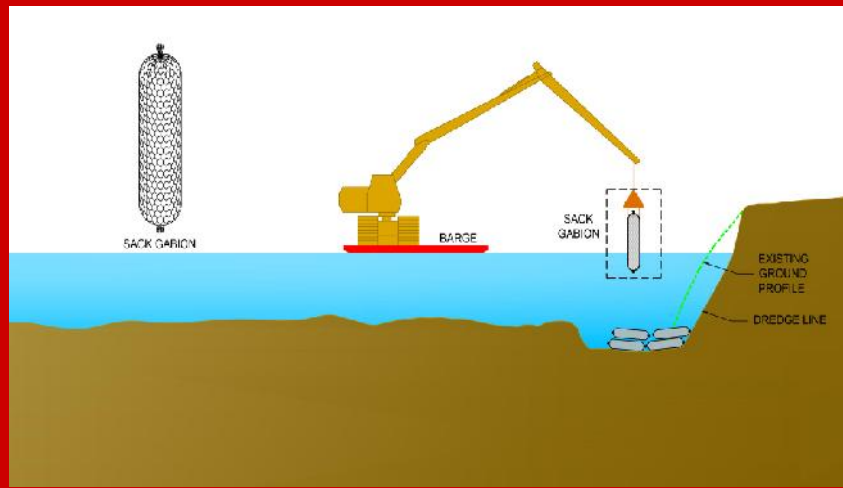


For more details visit our website or email at info@techfabindia.com

Products launched in 2021

TECHFAB SACK GABION

Sack gabions are cylindrical baskets made of double twisted steel woven wire mesh. Sack gabions are filled with stones or sand encased in geotextile at the project site to form flexible and permeable structures used in river trainings and various emergency works especially in underwater installation conditions. The mesh used to make Sack gabions are made from high quality steel wire, which is heavily galvanised to provide long term corrosion protection.



TECH GEOMATRESS



TECH GEOMATRESS - TGM is a Flexible and Tubular shaped Green Mattress System which is one of the well established Eco-Friendly Soft solutions for various flood control applications, fabricated from two-layers of geotextile fabric and filled with sand or any suitable soil.

This is a flexible & tubular shaped, erosion protection system used as a river bank revetment. Or for Protections of embankment slopes. The in-built system of Filter & Armour stops the migration of fines and soil particles either by erosion agents like strong current OR during reverse drawdown. Its tubular shape is ideal for dissipating energy due to current velocity along the river banks, this results in sedimentation over the surface during flood.

Product Manufacturing Capacity

We have been scaling up our manufacturing capacities to meet the growing demand for Geosynthetics. An illustration of how our present manufacturing capacities are geared up to meet the demands in road sector is given in the table below:

| Products | Applications | Annual Production Capacity |
|--|---|---|
| TechGrid Knitted and Polymeric Coated Polyester Geogrids | Soil Reinforcement for Reinforced Soil Walls and Slopes | 60 Lakhs Square Meters of Wall Face Area |
| TechStrap Polyester Geostrips | Soil Reinforcement for Reinforced Soil Walls | 15 Lakhs Square Meters of Wall Face Area |
| TechGrid PP Polypropylene Biaxial Geogrids | Reinforcement of Granular Base / Subbase | 1500 lane km of road |
| TechGeo NonWoven Geotextiles | Subgrade Separation / Stabilization | 16000 lane km of road |
| TechCell GeoCells | Subgrade Stabilization & Stabilization of Granular Base / Subbase | 700 lane km of road |
| TechPave Paving Fabric | SAMI and Moisture Barrier for Bituminous Overlays | 16000 lane km of road |
| TechDrain Drainage Composite | Surface Drainage Layer for Pavements | 2500 lane km of road |
| TechDrain Prefabricated Vertical Drains | Ground Improvement for High Embankments | 2200 km of High Embankment (Four Lane road) |

Case References

Embankment Protection for Tharad - Dhanera - Panthwada Section of NH-168, Gujarat

This project site is located in the north part of Gujarat where weather is generally dry but sometimes heavy rains. Project scope included embankment slope where height varies from 3m to 6m. The slope of embankment (1:1.5) is prepared with locally available soil. Where embankment heights are more, 1m to 3m RCC toe wall is provided to flatten the slope. Since, soil is silty sand so the chances of vegetation growth were very less. This soil found is easily prone to erosion resulting in rain cuts and gully formation and may result into slope failure.

It was required to provide efficient erosion control system for embankment slope for this project. Project scope included embankment slopes at multiple locations.

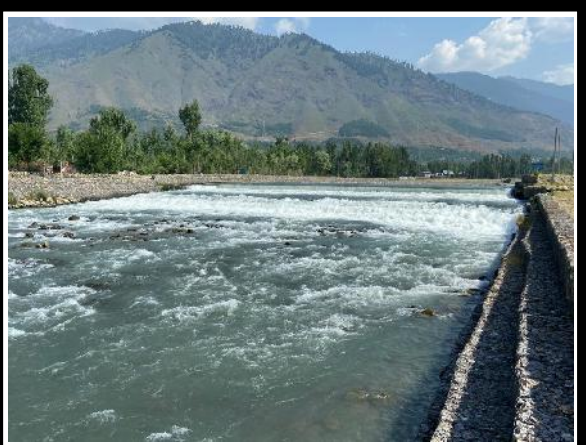
View this [Case Study here](#).



TECHFAB SOLUTION:

Geocell with GSB was adopted for major part of project scope.

Bank Protection & Flood Control Measures for Madhumati and Bonar nallah at Bandipora, srinagar



TECHFAB SOLUTION:

Gabions were proposed to construct the protection wall because of its free draining nature and speed in construction. Another advantage of the effective use of stones which were generated from vicinity were utilized for the filling of Gabion Walls.

The work was extremely challenging in terms taking material to site due to steep gradient, high water level & surrounded by locality. The temporary access road was constructed & water from nallah was diverted to facilitate gabion work. The gabions were placed in situ by varying foundation depth 1m to 3m. We have given extensive training for proper implementation of gabion at site. The contractor started the work simultaneously at various locations due to its urgency and timeline fixed in the contract. The series of gabion retaining wall: spur & energy dissipater were being constructed along Bonar & Madhumati Nallah.

In 2015, both Nallah had experienced severe bank erosion due to melting of ice at high altitude and release of water from the Kishan Ganga Hydro Electric Power Project (KGHEP) which caused flood in nearby villages as well as high erosion of the river.

This region is surrounded by high slope mountain and due to steep gradient; the velocity of water is quite high causing erosion of the bank and bed of the channel. It is observed that there is erosion at various locations along the nallah thus posing threat to the community staying along the banks.



The social benefits of the gabion wall are erosion control of the bank and protection from Flood of surrounding community as well as local crews can be easily trained on site to perform the installation job which results into improved social economic value of the region.

View this [Case Study here](#).

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This is a path breaking initiative during these pandemic times to help the customers to have a very open market rates with fastest possible truck load deliveries across Bihar.



ANNOUNCEMENTS



- Webinar on *Pavement Stabilization* at **2.30 - 3.30 pm on 30th July 2021.**

Contact Us:

TechFab India Industries Ltd.

711/712, Embassy Centre, Nariman Point, Mumbai - 400021

Tel: + 91 - 22 - 2287 6224 / 6225 Fax: + 91 - 22 - 2287 6218

E: info@techfabindia.com

W: www.techfabindia.com

For more details of our products & solutions please
visit our Website:

www.techfabindia.com

