

CASE HISTORY

Rev:01, Date : 04.09.2020

CONSTRUCTION OF EMBANKMENT USING HIGH STRENGTH POLYESTER WOVEN GEOTEXTILE TFI 3200 FOR APPROACHES OF RAJIV GANDHI SETU BRIDGE CONNECTING NANI DAMAN & MOTI DAMAN IN UT OF DAMAN GUJARAT, INDIA



Embankment Stabilization

Client:	Products used & Quantity supplied:
GOVERNMENT OF GUJARAT (ROADS & BUILDINGS DEPARTMENT)	WOVEN GEOTEXTILE TFI 3200 OF STRENGTH 200 KN/m - 82000 SQM.
Main contractor:	Consultant:
VIJAY M MISTRY CONSTRUCTION PVT LTD.	SHELADIA ASSOCIATES & CONSULTANTS PVT LTD.
Manufacturer & Supplier:	Year of construction:
TECHFAB (INDIA) INDUSTRIES LTD.	FEBRUARY 2009

Problem:

The approaches of the embankment to be constructed on soft soils having CBR value less than 2 . The maximum height of the embankment to be constructed on the soft foundation soil is 11m with a heavy traffic live load .



Existing Area Being Prepared



Laying of High Strength Geotextile TFI 3200

Solution:

The project consultant proposed 2 layers of high strength polyester woven geotextile of strength 200 KN/m in the principal direction & a granular fill of 900mm thickness at the base. The geotextile proposed acts as a basal reinforcement for the embankment and also as a separation layer to separate the granular fill of 900mm thick and the proposed fill .

Techfab India Industries Ltd herein referred as TFI supplied 82000 sqm of high strength polyester woven geotextile TFI 3200 of strength 200 KN/m in the principal direction, meeting all the technical specifications as proposed by the consultant for the project.



Murum Layer Being placed over Geotextile



Embankment work in progress & partially completed



Rajiv Gandhi Setu Bridge completed & open for Traffic

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