
Envirogeo Group: Providing geotechnical expertise

The Envirogeo Group is internationally renowned in geotechnical and structural design and consultancy services, project and tendering appraisal, technology transfer, specifier's guidance and expert guidance for installation through associate group company, Global Environmental Geotechnologies P. Ltd. It has 25 years of geotechnical expertise.

TENAX Geosynthetics provides state-of-art geosynthetic products, namely, ISO certified mono oriented and bi-oriented geogrids, drainage geonets, etc from internationally accredited TENAX SpA, Italy, While nonwoven geotextiles (PE/PET), non-woven heavy-duty drainage (PE/PET) geotextiles, woven geotextiles /composite PE/PET, lining and drainage geocomposites, HDPE geomembranes, vertical drains, concrete fascia system design, fabric lined galvanised gabions are available through associate group company, Enviro Geosynthetics P. Ltd.

The groups have been involved in design, detailing and supply of geosynthetic products for many important

reinforced soil approaches to road-over-bridge/flyover structures in different states of India under various government departments, such as, State PWD, CPWD, MSRDC, NHAI etc. They have been associated with six flyover projects at Punjabi Bagh, Ashram, Mayapuri, Andrewsganj, Yamuna Bazaar and Okhla Flyover in Delhi. They have also constructed a 14 m high wall constructed under NHAI on NH 2 under the golden quadrilateral project. Besides, soft soil stabilisation under high embankments has been undertaken in Andhra Pradesh using bi-oriented geogrid and geocell mattress.

TENAX Geosynthetics products have been used in the Bridge No. 162 near Udampur Yard under Northern Railway. It was inspected by a team of geotechnical experts and different design alternatives were evaluated in accordance with boundary conditions at site and the proposed alignment of the railway track. Design of high counterscrap wall for the construction of high embankment using state-of-the-art geosynthetic reinforced soil technique was jointly recommended since

conventional methods were practically difficult to implement and uneconomical due to the presence of a natural nallah and were not satisfying the local as well as global stability requirements. High strength mono-oriented geogrids are being used for the construction of the 7-m high toe wall, while the 22-m high slope is being strengthened by using mono-oriented geogrid of design strength 15 kN/m. Further, for erosion protection of slopes, light weight bi-oriented geogrids are being used which help to anchor the top soil used for vegetation in place allow roots of vegetation to intertwine and grow. The non woven geotextile acts as a drainage medium for water to be drained away from the site.

For more details, please contact:

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