

Geotextile Tubes Application on Beach Nourishment in UAE

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Abstract

The most common application of geotextile tubes is marine engineering. It could be a structure of groin, submerged breakwater or revetment, with the beneficial features of easy installation, eco-friendliness and cost-effectiveness. This method is boomed in recent years. This project is located in Al Aqah Beach Fujairah, UAE. Rubble groins were there, for lacking substantial protection, it gets weakened gradually. A serious erosion problem was seen after the cyclonic storm Gonu hit. This disaster impacts the local tourism, taking into consideration of tourist attractions, environmental demands, the client chooses geotextile tubes to rebuild the groin and submerged breakwater achieving the purpose of beach nourishment.

Keywords: Geotextile Tube, Beach Erosion, Groin, Submerged Breakwater, Beach Nourishment