



## Coastal protection work using Geotubes

Region

Kerala (India)

Type

**Coastal Protection** 

Client

Irrigation Deptt, Ernakulam

**Execution of the work** 

Renesco India Private Limited

**Construction Period** 

2018 - 2020

## **Project Description**

The project involves use of Polypropylene based high strength fabric woven (Geotube). The tube has high strength and permeable fabric which is able to hold back while material water flows through. Coastal stretch along Chellanam, kochi (southern part of India) was severly eroded during 2018 monsoon flood. In order to reduce the coastal erosion, sand geotube work started. Geotubes are large tubes filled with sand slurry mix. The mix usually comes from dredged sand from the nearby sea area

## Scope of work

- Demolishing and rearranging the existing damaged sea wall and dumping in position (to form as 1:3 slope, not to be packed) with Granite stones 300kg to 500kg
- Supply of Geo textile tube of length 25 m, circumference of 15.70 m to provide an inflated height of 2.5 m or above after filling using dredged sea sand - fill or slurry.
- Providing woven Geo textile layer to act as scour apron beneath the bottom layer Geo tubes.
- Installation of Geotubes Installation of 3 Nos of Geotubes, 2 Nos at bottom and one at top of length 25m at site Hydraulic filling of Geotextile tubes using excavated sand with the help of dredged pump.









