

Quality

Garware Wall Ropes Ltd. is a ISO 9001 company. This Certification was awarded originally in the Year 1995. Geosynthetics Division was included as apart of ISO 9001:2000 certification in the year 2001.

Highest quality standards are maintained in the Manufacture of Garware Polymer Rope Gabion & Gabion Mattresses right from the manufacture of Polypropylene Rope to Gabion Boxes. All the necessary tests are carried out in full-fledged in-house testing facility.



Polymer Rope Gabion



For more information like Product Specific ations, Services , Case Studies,etc. for Garware Polymer Rope Gabions & other Geosynthetic Products visit our site, www.garwareropes.com



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Geosynthetics Division

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Structural measures like revetments, groynes, break-waters, sea walls etc. Constructed of stone are widely used to control current and wave induced erosion. However, depending on wave height and flow velocity, often the required stone sizes may too large leading to problems of availability, high cost and difficulties in handling and transportation. For sites where, large stones of the required size are not easily available or is too costly and where site conditions do not favour the use of heavy equipment, an alternative solution using small size stones will have a number of advantages.

Gabions, which are walls like structures filled with relatively small size stones are an attractive alternative to large stone for various erosion control and scour protection application. Gabions by holding the small boulders together, function like large boulders but at the same time facilitates easy construction, there by offering a technically satisfactory and cost effective solution.

Product Information

Garware Polymer Rope Gabions and mattresses are fabricated by a unique process in which the ropes are woven into a continuous integral structure with excellent strength and flexibility. The Gabions are supplied in collapsible form with a flip open top lid. The diameter of the border and body ropes and aperture size are designed on the basis of the type of application, method of installation and expected loading conditions. Gabions and mattresses can be supplied in various sizes to suit specific site conditions and project requirements.



Filled Gabions ready for installation



Filled Gabions being lifted for under water installation

Gabions can be filled in site where the water table is below the level of construction . Gabions are filled with boulders of size larger than the aperture size of the Gabions & maximum size shall be not more than three times the minimum size or half the height of the Gabions.

Where the installation is under water, mechanical equipments like cranes could be used for placing the Gabions in position by appropriate use of slings provided. Dropping of the Gabions from stable barges is also possible.

Features of Garware Polymer Rope Gabion / Mattresses

- ♦ Resistance to acidic & alkaline environments
Immune to rot, mildew, marine organisms
- ♦ Flexile to take the river bed contour.
- ♦ No rusting & no damage to aquatic life
- ♦ No effect of water; non-Biodegradable.
- ♦ High tensile strength,high abrasion resistance, high thermal stability.
- ♦ Resistance to U.V. degradation
- ♦ Can be lifted by cranes. Suitable for underwater construction.

Garware Polymer Rope Gabion/Mattresses Applications

- ♦ Coastal & Shore Protection Works.
- ♦ River Training & Flood Protection.
- ♦ Retaining Walls.
- ♦ Bridge Abutments, Pier Protection.
- ♦ Highway, Railway Embankments.
- ♦ Port Development, Berth Facilities



Gabion wall at Swaminarayan temple, Delhi



Top view of Gabion wall at Swaminarayan temple, Tithal



Cross section of erosion control bund at Moti Danti, Valsad