Steel wire ropenet at Southern Railway

For more information like product specifications, design suggestions, case studies,etc. for Garware Polymer and Steel Wire Ropenets & other Geosynthetic Products visit our website, www.garwareropes.com or contact us at the following address:

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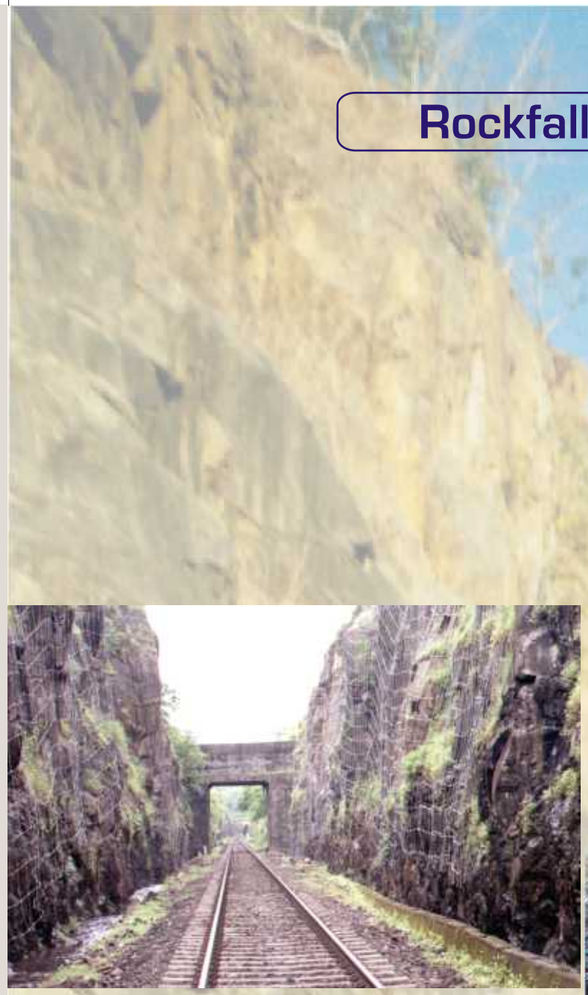
Rockfall Protection



Garware-Wall Ropes Ltd.
Geosynthetics Division

Mountainous terrains and cuttings are prone to the problem of rockfall especially during the monsoon. Rockfall could be a serious hazard threatening the smooth operation of traffic lines and often result in accidents resulting in loss of life and property.

Various geological, geotechnical, topographical and climatic conditions like, nature of rock, degree of weathering and fracturing, size of fragments, height and steepness of slope, intensity of rainfall, freezing and thawing, etc. govern the magnitude of the problem.

Solution

Ropenets made of high strength ropes are the ideal solution for rockfall protection. They can be installed for heights ranging from 10 m to 60 m. Ropenets can be fabricated so as to suit the site conditions.

The factors, which could influence the selection of a particular product are

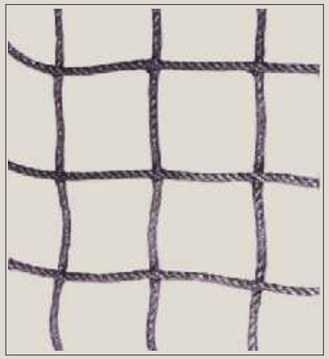
- Extent of fracture of rocks at cuttings
- Size of the fractured rocks
- Height of the cutting
- Vulnerability to fire

Depending upon the above factors Ropenets made of polymer or steel are recommended.

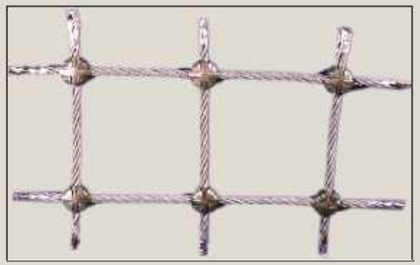
Product Information

Polymer Ropenet

They are made of polypropylene ropes of 10 mm to 16 mm dia. having very high thermal, abrasion & U.V. resistance. The mesh size can be varied from 100 mm to 300 mm depending upon the sizes of the fractured rock and the strength required. They are appropriate where medium tensile strengths of approximately 6 to 8 Ton/m are required - say to retain small to medium size boulders.



Polymer ropenet



Steel wire ropenet

Polymer ropenets have high abrasion and thermal resistance, excellent flexibility can easily adapt to the profile of the cutting, are easy to install and offers a solution with low system cost.

Steel wire ropenet at Bijghar Cutting, KRCL

Steel Wire Ropenets

They are made of high strength galvanized steel wire ropes having a breaking strength of around 4.0 tons and have a design life of more than 20 yrs. The mesh size can be varied from 300 mm to 600 mm depending upon the sizes of the fractured rock & the strength required. These are appropriate when high tensile strengths of approximately 13 - 14 Ton/ m are required, say to retain large size boulders.

Steel wire ropenets have high strength, low elongation, specially designed clamps at the intersections for high aperture rigidity, are fire proof and have a long design life.

Polymer ropenet at Vilvade Cutting, KRCL

Steel wire ropenet at Ashti Cutting, KRCL