



CHENANI NASHRI TUNNEL PORTAL (2016), INDIA

Rockfall Protection

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Rockfall Protection

Project	Chenani Nashri Tunnel Portal (2016)
Location	Jammu & Kashmir
Country	India
Year of installation	2016
Customer	N.H.A.I. (National Highways Authority of India)
Engineering Contractor	GeoData Consultants for Leighton Wellspun Contractors Pvt. Ltd. Leighton Wellspun Contractors Pvt. Ltd.

Initial situation

The site was initially proposed to be treated with shotcrete but persistent seepage of water which caused slope failures and cracks on the portals led the concessionaire to go for an alternate solution which does not only stabilize the slopes but also offers a green solution and allows the hydrostatic pressure to disperse. National Highways Authority of India decided to actively stabilize the tunnel portals. A protective measure had to be selected to stabilize the exposed cutting against superficial instabilities, tilting as well as sliding of individual blocks and rockfalls.

As an extra safety measure, 500 kJ barrier line was introduced and placed on one of the berms to provide extra safety besides portal stabilization. Rockfall barriers protect against rockfalls from above stabilized area.

Description

The GBE-500A rockfall barrier system protects the entry and exit levels of the Chenani Nashri Tunnel from all sorts of major and minor rockfalls or any falling object which could in anyway harm the tunnel portals and traffic. Thus it helps reducing the risks involved as well as the complete protection from rockfall based calamity.

See also our slope project [Chenani Nashri Tunnel Portal \(1\)](#)

Protected object	Road, Infrastructure
Other installed applications	Slope Stability
Corrosion protection	Galvanized, GEOBRUGG SUPERCOATING
Energy absorption capacity	500 kJ
System height	4.0 m
System length	80 m - 91 m

For questions please contact our Geobrugg specialist at your side

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