



CHENANI NASHRI TUNNEL PORTAL (2017), INDIE

Stabilizacja skarp

Chenani Nashri Tunnel Portal (2017)

Stabilizacja skarp

Projekt	Chenani Nashri Tunnel Portal (2017)
Lokalizacja	Udhampur, Jammu & Kashmir
Kraj	Indie
Rok Instalacji / montazu	2017
Inwestor	N.H.A.I. (National Highways Authority of India)
Projektant	IL&FS Transportation Networks Ltd.

Opis sytuacyjny projektu

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 Highway 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, as well as tilts and slides of individual blocks and rockfalls.

The area of the slopes to be treated and protected amounts to a total of 32'000 m² which includes 4 berms and the top path up to a maximum height of ca. 55 m.

Opis zastosowanego rozwiązania

The slope stabilization solution consisted of both active and passive protection measures. The flexible slope stabilization system consisting of TECCO[®] System and coir mat, system spike plates and soil nails had been selected.

Each berm is stabilized using rock-bolts of a maximum depth of 20 m in conjunction with high tensile steel wire mesh. Perforated drain pipes, wrapped in geotextile, at an interval of 6.0 x 6.0 m are also installed to allow excess water to pass.

In addition, vertical and horizontal drainage channels are provided to channelize rain and excess water to pass and not accumulate and seep under the slopes. Variable grid patterns of 2.0 x 2.0 m and 2.5 m x 2.5 m are adopted on this project. 32 mm thick, fully threaded rock-bolts were used in this project and total drill length achieved is approximately 11'0000 m.

An additional GBE-500A rockfall barrier line was installed which can absorb impact energies up to 500 kJ.

See also our rockfall project [Chenani Nashri Tunnel Portal \(2\)](#)

Chroniony obiekt	Road, Infrastructure
Inne zainstalowane aplikacje	Ochrona przed obrywami skalnymi
Zabezpieczenie przeciwkorozyjne	GEOBRUGG SUPERCOATING
Zabezpieczona powierzchnia	32000 m ²
Wysokość skarpy	70 m
Nachylenie skarpy	65 ° - 70 °
Zazielenianie	Tak
Mata antyerozyjna	Tak
Wystawy	North

W celu uzyskania dokładniejszych informacji skontaktuj się z naszym Przedstawicielem.

Roger Moor

Country Manager Ost- und Zentralschweiz, Liechtenstein

Telefon+41 71 466 81 52

Mobile +41 78 783 46 81

Roger.Moor@geobrugg.com



Geobrugg

info@geobrugg.com | www.geobrugg.com
