

CASE HISTORY

Ref. No.: CH/19/V-11-18-040	Year: 2019
Name of the Work: Construction of Retaining structure using soil nailing and rockfall Mitigation.	
Client: Finolex Cables Pvt. Ltd.	
Proof Consultant: Mr. Shirish Joag	
Site Address: Finolex Cables Pvt. Ltd. Verna Industrial Estate, Verna Goa.	
Type of Work: Design, Supply and Construction of Retaining structure using soil nailing and rockfall Mitigation.	
Start Date: 10 th April 2019.	Completion Date: 22 nd Oct 2019.
Value of Work: 85.63 lacs	
Nature of work:	<p>The proposed work was to be carried out for Finolex Cables Pvt. Ltd Project. As the laterite is found which is rich in iron and aluminum. All laterites are of rusty-red coloration because high iron oxide contents they developed intensive weathering of under laying parent rock so as to prevent the rock to fall inside the properties it is imposed that the engineering in charge of Viraj engineers advised regarding the implementation of GP lining to ensure the avoidance of water intrusion.</p> <p>Viraj Engineers carried out the Design and analysis, Supply of materials required and construction of Retaining structure using soil nailing and Rockfall Mitigation measures in the top half.</p> <p>The details of the project are as under, Maximum Height of the retaining structure – 13.5m Minimum Height of the retaining structure – 5.5m Stretch length – 150 m Quantity of Face Area- 1122 sqm.</p> <p>The mobilization of manpower and machinery was completed on 10th April 2019. and the entire works were completed by 22nd Oct 2019.</p> <p>The protection of cavity formation was one of the challenges to be achieved. The cavity cracks were lined with GP lining and</p>

	<p>drain anchors were provided for water draining system.</p> <p>The retaining structure had 0.3m m drainage materials fixed behind to reduce the pore water pressure and no hydrostatic pressure is induced on the structure.</p> <p>The top mitigation works were drapery system was used along with surface anchors to hold the netting in position.</p> <p>Inverted drainage holes 75mm PVC pipes spaced at 2m c/c distance.</p> <p>The Anchoring system was designed as per the FHWA guidelines and all the details were followed accordingly.</p>
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