

ROCKFALL PROTECTION WORKS ALONG RAILWAY LINE VANGAL & KARUR

SALEM, TAMIL NADU, INDIA

Simple Drapery

Problem

Salem-Karur railway route is one of the busiest and most saturated broad-gauge trunk routes in Tamil Nadu. At present these two locations are connected via Erode Junction and it is 128km long. To shorten the journey, a new broad-gauge line has been proposed between Salem and Karur via Namakkal Junction. This new route cuts down the travelling distance by at least 40 km. The new route is only 85km long.

The new railway line traverses through a few hills which needs to be cut through. The cutting stratum comprise of weathered rock slope and threats of rockfall on to railway track is prevalent along these slopes.

Solution

To reduce the risk of rockfall on to railway line, it was proposed to drape the surface of the exposed cut slope with HEA square panels and chain link mesh in line with project requirement for surficial protection solution. The drapery system was anchored at top and bottom of slope with anchor bars. Intermediate anchoring on slope surface was done using anchor fastness so that the drapery system remains in close contact with slope surface for increased effectiveness of the system. The height of cutting which requires protection varies from 10m to 15m.

Client: Southern Railways, India

Designer / Consultant: Maccaferri Environmental Solutions Pvt. Ltd.

Contractor: Ferro Concrete Construction

Products used (Qty.)

- HEA Panels 1600

Date of construction: 01/2012 - 12/2012



HEA Panel Installation In Progress



HEA Panel Installation In Progress



HEA Panel Installation Completed



HEA Panel Installation Completed



HEA Panel Installation Completed