MACCAFERRI

CASE HISTORY

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BRIDGEWORKS UPGRADE AT JALAN DATUK KUMBAR

JALAN DATUK KUMBAR, KEDAH, MALAYSIA

Ground Improvement

Problem

The upgrading works of the new bridge along Jalan Datuk Kumbar, Kedah requires ground treatment due to low bearing capacity.
The existing state road Jalan Datuk Kumbar provides daily access to many as it is one of the key routes that connects to main towns in Kedah. Surrounded by paddy fields and soft soils, this encourages differential settlement and irregular surface to occur.

Solution

Maccaferri supplied MXC 90 non-woven geotextiles for this project and it covers a total of 12,000 metre square of area along the road. The non woven geotextiles are being used as a separator between 6’ x 9’ of granitic rocks and the existing soft soil. Granitic rocks are being used as a backfill material needed to restore the land to its ideal and suitable condition for construction.
geotextiles are often used to prevent intermixing of unsuitable soil with the granular fill. The MXC 90 with its tensile strength of 33 kN/m and CBR puncture of 5350N can withstand puncturing effects from the rocks.

Client: JKR Negeri Kedah
Designer / Consultant: PERUNDING MOJASS
Contractor: JKR Kedah
Products used (Qty.)
- Nonwoven Geotextiles 12,000 M2

Date of construction: 01/2017 - 01/2017



During Construction



During Construction



After Construction

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