

SLOPE REPAIR WORKS

CHEMBONG, NEGERI SEMBILAN, MALAYSIA

GEOTECHNICAL ENGINEERING

Product: GREEN TERRAMESH

Problem

A slope near the Tenaga Nasional Berhad (TNB) Substation at Chembong failed after a heavy downpour. This is the second failure from a 3m high reinforced concrete retaining wall. A soil investigation confirmed that the failure was due to the high ground water table.

Solution

The client approached Maccaferri to seek our technical advice and design services. We proposed a 3.6m high, 45° angle Green Terramesh reinforced slope. Sub-soil drainage system had to be closely spaced at the bottom of the slope to cater for high water table. Additionally, granular fill was used throughout the reinforced soil zone.

The Green Terramesh System was chosen due to its cost effectiveness and technically proven design. The construction of the slope took only about two (2) months. The completed slope surface is covered with full-grown vegetation in less than six (6) months thereafter, as seen in the picture.



Before construction



During construction



After construction

Client:

TNB TRANSMISSION NETWORK SDN BHD

Main contractor:

M.D. POWER SDN BHD

Products used:

180 NOS. GREEN TERRAMESH

Date of construction:

FEBRUARY - APRIL 2002

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