MACCAFERRI

CASE HISTORY

Rev: 2, Issue Date 16.10.2024

MACGID EG TRIAL PROJECT IN MAUBIN – MAW LA MYAING KYUN ROAD

MAUBIN, AYEYARWADY, MYANMAR

Sub-grade Improvement

Problem

Ayeyarwaady region is known for high rainfall intensity and shallow water table (delta area) in Myanmar. Due to this condition, if the construction is not done properly or the pavement is not designed considering all aspecs, often settlement or failure can occure.
One of such project is rehabilitation project at Ayeyarwaady division Myanmar under MOC. Initially the pavement design section prepared by MOC based on the information from site i.e. traffic data, soil properties. After two years, the road started showing some failure as can be seen in the photos.

Solution

The client MOC suspected the possible cause could be wrong input data from site or under designed section or non-compliant construction material. However, they wanted to maintain the original cross section and make it more stronger. Removing the existing road was not feasible.

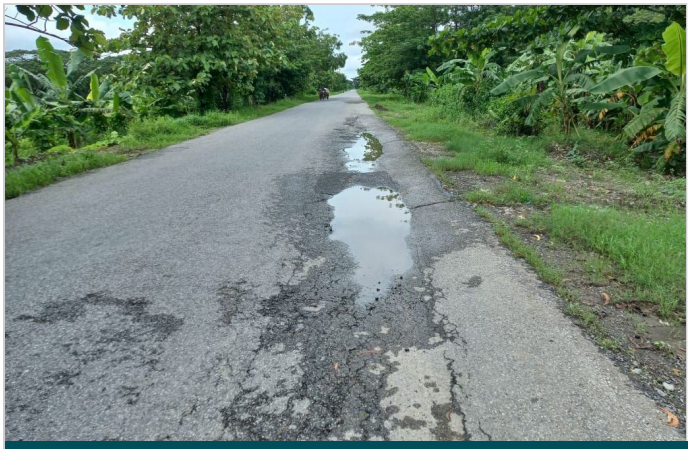
After analyzing the site condition, Maccaferri proposed extruded geogrids Macgrid EG20S and Macgrid EG30S as sub base reinforcement to strengthen the pavement. This solution was accepted by the client first as a trial project in limited scope. Further remedial works to be taken up after successful completion of the project and performance of proposed solution.

Client: Ministry of Construction
Designer / Consultant: -
Contractor: Ministry of construction
Products used (Qty.)

- Biaxial Geogrids	EG20S 5925sqm, EG30S - 5727sqm

Date of construction: 01/2024 - 03/2024

Google Maps Google Earth



Before construction



site photo

MACCAFERRI



During Installation



During Installation



During Installation



site photo

Maccaferri (Malaysia) Sdn. Bhd.
Unit 511, Block G, Phileo Damansara 1, No. 9, Jalan 16/11, Off Jalan Damansara, 46350
Petaling Jaya, Selangor Darul Ehsan, Malaysia
T: +60 3 7955 7800
E: info.my@maccaferri.com