



SIKA AT WORK

REHABILITATION OF THE BAGO BRIDGE, NEGROS OCCIDENTAL PHILIPPINES

STRENGTHENING: Sika CarboDur®

BUILDING TRUST



Rehabilitation of the Bago Bridge Negros Occidental, Philippines

PROJECT DESCRIPTION

Old Bago Bridge was used to be a steel span, 200 meters long and 12 meters above the water, traversing the wide river of Bago between the Poblacion and the Bago Ma-ao crossing.

The bridge was able to withstand the threat of war and time but unfortunately, when typhoon Ruping in 1991 hit Negros, the bridge was destroyed by flood brought by strong wind and rain. Hence, the reconstruction of 270 meter Bago Bridge which is one of Bago City's iconic landmarks.

The bridge acts as main access to the South of Negros Island. The closest alternative route is located 17 km away.

PROJECT REQUIREMENTS

Since the bridge was constructed, the acting loads corresponding to the traffic have been progressively increased. This is related to the main crop in the island, the sugar cane, which is quite heavy if mobilized by truck.

As a consequence of this activity, the strength of the existing infrastructure resulted insufficient to assume the current traffic conditions. However, the methodology of retrofitting had to ensure a minimal disturbance on the public commuters, taking into account that no traffic detour was possible due to the significant distance to the closest alternative route.



SIKA SOLUTIONS

The Sika solution was based on the SikaWrap® and Sika® CarboDur® CFRP range. They provided a simple and efficient solution. The application of the products did not modify the existing traffic conditions, avoiding interfering with the daily activities of the inhabitants in the Negros Island.





PROJECT PARTICIPANTS

Owner: DPWH Region 6, Bago City District Engineering Office

Consultant: Engr. Jerry Maratas - Structural Engineer

Gen. Contractor: BC International Builders Corporation

Applicator: ACE Technical Creations Inc.

Sika representative: Engr. Lance Anthony B. Castanares, Sika Philippines, Inc.

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