

Kamsar Jetty, Guineau, West Africa



Kamsar Jetty provides a bulk bauxite loading facility for one of the key exports of Guineau

Alternative Solution Delivers Saving

Kamsar in Guineau, West Africa has a bauxite production facility and a reinforced concrete jetty provides the means of loading for bulk shipping.

Inspection of the piles revealed accelerated deterioration of the reinforced concrete of the piles that required remedial action. The then current conventional treatment of underwater repairs was costed at \$3.28 million.

A proposal from Balvac to utilise fibre reinforced polymer (FRP) composite shells as permanent shuttering and a specially formulated cementitious grout to encapsulate over 200 piles in the fast flowing estuary dramatically reduced diver hours and materials costs.

The adopted solution was safer, quicker, and longer lasting than the original scheme and the final contract value was only \$2.34 million with project completion in less than half the original expected programme duration.

Client	Compagnie des Bauxites des Guineau
Consultant	Posford Duvivier
Principal Contractor	Balvac
Value	£1.5 million
Programme	26 weeks completed 1996



Temporary restraint of the FRP shuttering

This technique has been further utilised on other structures in Europe and is likely to provide a very economical solution to many problems world-wide.