VCE Vienna Consulting Engineers ZT GmbH

brimos® BRIDGE MONITORING SYSTEM



research bridges railways tunnelling monitoring technology management international

Tete Suspension Bridge

PONTE DE TETE located in Tete Mocambique was built as a road bridge over the Zambezi River in the sixties of the last century. It is a five span suspension bridge with a total length of 720 meters. The span lengths are 70-180-180-180-70 meters. The flexible bridge deck is supported by 284 hangers and 4 steel struts.

Due to the age of the bridge, the heavy traffic and the partly very bad condition of the bridge rehabilitation measures are necessary. The rehabilitation scheme is designed by GRID, a Portuguese consultant company.

VCE's task was to assess the condition of all 284 hangers and to measure the hanger forces due to self weight with BRIMOS®. The measurements were carried out by a VCE engineer in the period from September 29th to October 9th 2006 using the BRIMOS-Recorder®.

- Client: GRID/ANE
- Location: Tete, Mozambique
- Checking Period: 2006

BRIMOS® Services conducted:

Lifecycle Management:	☒ Condition Assessment	☐ Condition Monitoring	☒ Rehabilitation Planning	☐ Quality Control
	☐ Lifetime Assessment	☐ Traffic Analysis	☐ Environmental Influences	☒ Risk Assessment
Special Measurements:	☐ Attendant Monitoring	☐ Noise and Vibrancy	☐ Deflection Measurements	☐ Seismics