

# Geotechnical Instrumentation Monitoring System Hong Kong



Subject: Geotechnical Instrumentation Monitoring System (GIMS)  
Project reference: KCRC West Rail Contract FCC-002  
Location: Hong Kong  
Client: Kowloon Canton Railway Corporation (KCRC)  
Client type: Government  
Period: 1998-2003  
Turnover: €

In 1998 the Kowloon Canton Railway Corporation (KCRC) commissioned Fugro to execute geotechnical measurements during the construction of the railway section West Rail in Hong Kong. An important part of this project is the development of a geotechnical database (GIMS) in which all geotechnical data are being stored.

The GIMS database has been developed in ORACLE and is managed centrally by the KCRC project office. The database can be consulted from different locations by means of an interface. The GIMS Client Software has to be installed on the PC of the user to obtain access to the database by means of a password. Users, responsible for the measuring instruments, are warned via the GIMS mail-service when measurements exceeding a certain lower limit are entered. This enables a quick reaction to potential problems during the execution of the operations. Special extensions are incorporated in GIMS to manage and process data with GIS ArcView. Various modules are furthermore built in into the system to process and manage administrative data, to compose graphs and reports and export to other programmes such as Excel.

