



(Asia) Ltd

# MTR Corporation Lantau Airport Railway Independent Expert Witness

## **Description of Work**

The MTR Corporation was responsible for establishing and operating a rail link from Hong Kong to the new International Airport at Chek Lap Kok. This new high speed rail link was designed and constructed as part of the Airport Core Programme of Works in the 1990's and incorporated several new stations along the route. A significant proportion of the route has been constructed on new reclamation overlying soft marine and alluvial deposits.

GCG (Asia) Ltd were commissioned to provide independent expert witness services to the MTRC in a mediation with the HKSAR Government on the post-construction reclamation conditions particularly with regard to settlement behaviour and foundation design. Representatives from GCG (Asia) Ltd were retained by MTR for their detailed understanding of the construction methods, reclamation materials and long term creep of the natural underlying soft clay and fill materials and their studies included analyses on the effects of long term settlement on buildings as well as infrastructure. The advice covered three reclamations at West Kowloon, Siu Ho Wan Depot on the north coast of Lantau and at Tung Chung station reclamation. Expert advice on the design of the large rock cutting on north Lantau was also part of the commission.

## **Tung Chung MTR Station**



**Client:** MTRC

**Dates:** 2001 - 2002

**Estimated Project Cost:**  
HK\$ 10 billion



## **Selected Publications:**

PICKLES, A.R. & TOSEN, R. (1998), Predicting the Total and Differential Settlement of a Reclamation. Proc. 13<sup>th</sup> Asian Geotechnical Engineering Conference. November 1998.