

The Hong Kong Institute of Project Management (HKIPM) Site Visit to Express Rail Link (XRL) Project

Event Title

Site Visit to the Guangzhou-Shenzhen-Hong Kong Express Rail Link (Hong Kong Section) (廣深港高速鐵路 - 香港段) Project - West Kowloon Terminus Station South (MTRC Contract 810B)

Organizer

The Hong Kong Institute of Project Management (HKIPM)

Date, Time and Venue

Date: 25 January 2014 (Saturday)

Time: 10:00 am - 12:00 noon

Assembly Venue: Fairwood Fast Food Shop 大快活快餐店 (near The Ice Rink 溜冰場), G/F, ELEMENTS Mall (圓方購物商場), 1 Austin Road West, West Kowloon, Hong Kong



Participants

A total of 25 participants attended the site visit, including 19 full-time/part-time undergraduate/taught postgraduate students at the Department of Building and Real Estate of The Hong Kong Polytechnic University, 2 professional civil engineers, accompanied by 4 council members of HKIPM (i.e. Dr Francis Chan, Dr Daniel Chan, Mr ChiMan Chan and Mr Dick Chui).

Project Highlights

The 26 km long Guangzhou-Shenzhen-Hong Kong Express Rail Link (Hong Kong Section) (廣深港高速鐵路 - 香港段) with maximum operating speed of 200 km per hour and capacity of 10,000 passengers per hour, runs from the terminus in West Kowloon, heading north to the Shenzhen-Hong Kong Boundary, where it connects with the 16,000 km National High-speed Railway Network with significantly reduced travelling times. The terminus will be located to the north of the West Kowloon Cultural District and will be linked to Austin Station and Kowloon Station of MTRC by footbridges and subways. There will be no intermediate stations in the Hong Kong Section. The railway project cost is HK\$ 62.4 billion (at 2009 prices). Construction of the XRL commenced in January 2011 with target completion in 2015.

“Laing O’Rourke-Hsin Chong-Paul Y” Joint Venture is the Contractor of the West Kowloon Terminus Station South (MTRC Contract 810B). The terminus station is around 30m deep underground at 4 levels with fifteen platforms. Partial top-down method was used for early construction of the periphery slabs of the terminus station for the benefits of safety and programme management. The joint venture contractor has adopted building information modelling (BIM) and considerable prefabrication techniques for better scheduling and work safety.

A site safety induction and a technical briefing of the project were provided by the representatives from the joint venture contractor to the attendees, followed by a guided site visit to the project. The site visit reported on the latest progress of the station structures and the benefits accrued by using various innovative construction methods for improving productivity. The project also adopted rigorous safety and logistical management systems for enhancing site safety and management of a large and complex site within the urban surrounding.

The site visit was ended with some interesting questions from the participants and insightful answers from the representatives of the joint venture contractor. All the attendees really enjoyed the site visit, and they found it very informative, clearly presented and very useful to their personal knowledge development of various construction technology and methods adopted for this landmark infrastructure project (e.g. top-down and bottom-up construction sequences, design for manufacture and assembly, use of BIM in design and construction, etc).



Group photo of some HKIPM council members with the participating students inside the site office of the joint venture contractor



Technical briefing by the Engineering Manager (Mr Adrian Stearn)



OTE installation methodology by the ABWF Manager (Mr Anthony Lai)



Temporary haulroad system within the construction site



OTE installation process in place at the railway platform level



Souvenir presentation to Mr Adrian Stearn (left) by Dr Francis Chan, Immediate Past President of HKIPM (right)



Souvenir presentation to Mr Anthony Lai (left) by Dr Daniel Chan, Chairman of CPD Committee of HKIPM (right)



Group photo of the participants with the representatives from the joint venture contractor after the guided site visit