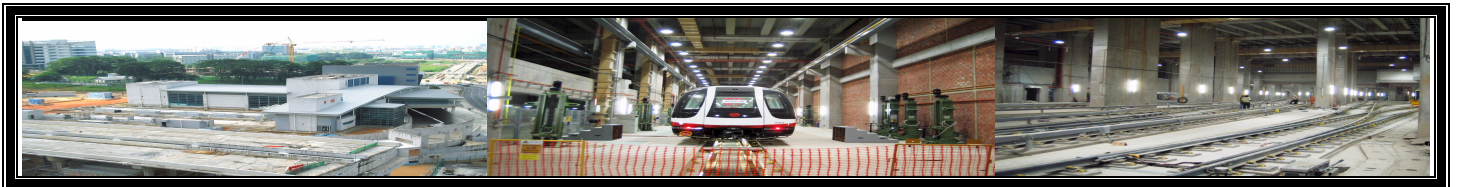


LTA ACADEMY
SINGAPORE

AN ACTIVITY JOINTLY ORGANIZED BY
GEOTECHNICAL & TRANSPORTATION TECHNICAL COMMITTEE, INSTITUTION OF ENGINEERS SINGAPORE
AND
LTA ACADEMY SINGAPORE

Technical Visit to

Circle Line Underground Depot/Control Centre



Date : 13 January 2007, Saturday
Time : 9 a.m. to 12 p.m.
Venue : Kim Chuan Depot
Fee : \$10 for IES members
\$25 for non-members
PDU : 1 PDU

INTRODUCTION

Kim Chuan Depot is an underground Depot to serve the MRT Circle Line (CCL) and the future Eastern Regional Line (ERL).

Project Statistics

The Depot is about 800m long, 160m wide and 17m deep. The site area is 110,000 sqm. A total of 2.16mil m³ of material was removed from the site and 340,000 m³ of concrete was used. There are more than 1000 nos. of bored piles constructed. Pre-cast concrete elements are extensively used in the project for labour-saving consideration. More than 6000 items, ranging from precast beams to hollow-core slabs are detailed for the completion of the project.

The building electrical supply is distributed through 3 load centres via 200 sub main and distribution boards.

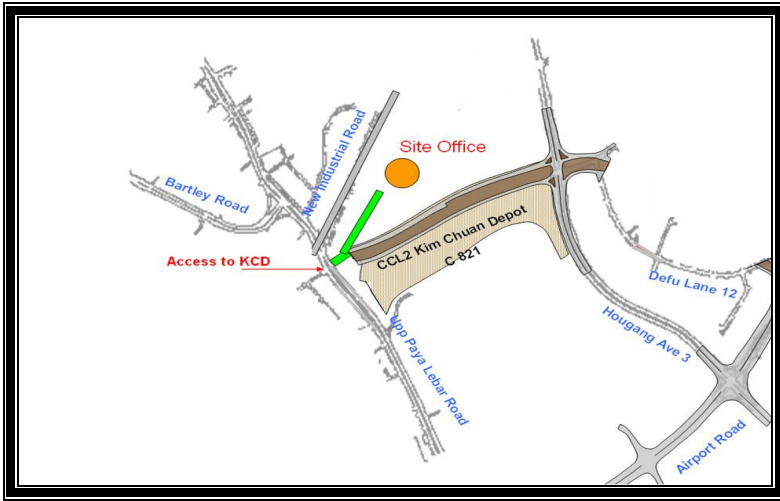
Due to the vast area 70 fire rated smoke extract fans, 130 intake air fans and 132 exhaust air fans are required to ventilate the depot.

The fire protection system consisted of 3 clean gas systems, 4 wet riser pumps of capacity over 780 l/s, 9 sub alarm panels and 35 control valves for the 21,500 sprinkles.

Unique Features

- KCD has a capacity to stable 70 three-car trains and provides maintenance workshop facilities for the entire CCL.
- Houses the Operation Control Centre (OCC) for CCL.
- Provision for two future OCCs.
- Provision for future development on part of the Depot roof to maximise land-use.
- A section of Bartley Road Extension (BRE) running above the Depot is also constructed under the contract.

How To Get There:



REGISTRATION

Registration is on a first-come-first-serve basis and is limited to 30 participants only.

Please submit the registration form to Christina (christina@iesnet.org.sg) or send/fax to:
Institution of Engineers, Singapore, 70 Bukit Tinggi Road Singapore 289758 Tel : 64695000 Fax : 64671108

Participant Details

Name : _____ PE No. (if any) _____
NRIC : _____ Designation : _____
Company : _____
Address : _____ Postal Code : _____
Tel : _____ Fax : _____
Email : _____

Please indicate : IES members IES M' ship No.: _____
 Non-members Sponsored by company

Date : _____ Signature: _____

Contact Person Details (if different from participant)

Name : _____ Designation: _____
Tel : _____ Fax: _____
Email : _____

Payment Details

Bank/Cheque no: _____ Amount: _____

Cheque should be made payable to: **"Institution of Engineers, Singapore"**

Confirmation of events will be given 1 week prior to the commencement of the event. In the event that you are not able to attend the event, please kindly inform us in writing at least three days before the commencement date otherwise the full payment is still applicable even if you did not turn up for the event. Replacement is allowed, however, when a member is replaced by a non-member, the participant has to pay the difference in the fee.

The Institution reserves the right to make appropriate changes at its discretion although every effort will be made to inform participants in time.