SC(4)(XRL) Paper No.: G12

路政署

鐵路拓展處 香港九跑何文田忠孝街八十八號 何文田政府合署一裡 網址:: http://www.hyd.gov.hk

Urgent by fax (2543 9197)

17 November 2015

Ms Sophie LAU Clerk to Select Committee Legislative Council Secretariat Legislative Council Complex 1 Legislative Council Road Central, Hong Kong

Dear Ms Lau,

Select Committee to Inquire into the Background of and Reasons for the Delay of the Construction of the Hong Kong section of the Guangzhou-Shenzhen-Hong Kong Express Rail Link ("Select Committee")

Request for further information

Thank you for your letter dated 20 October 2015 on the captioned subject.

Regarding the information requested, I would like to reply as follows:-

Details of the design changes in respect of different contracts under the Hong Kong section of Guangzhou-Shenzhen-Hong Kong Express Rail Link project up to April 2014 and the additional costs involved.

As you are aware, the MTR Corporation Limited ("MTRCL") is entrusted with the design, construction, testing and commissioning of the Hong Kong section of Guangzhou-Shenzhen-Hong Kong Express Rail Link ("XRL") project and is responsible for the overall management of the project. Under this arrangement, MTRCL would have the first-hand information concerning any matters relating to the XRL project, such as the details of design changes and the additional costs involved. As such, we have enquired with MTRCL in this





HIGHWAYS DEPARTMENT RAILWAY DEVELOPMENT OFFICE

1st FLOOR, HO MAN TIN GOVERNMENT OFFICES 88 CHUNG HAU STREET, HOMANTIN, KOWLOON, HONG KONG Web site : http://www.hyd.gov.hk

本署檔案 Our Ref. :() in CB4/SC/13 來函檔號 Your Ref. : () in HyD RDO 16-3/17/25 C 電 話 Tel. : 2762 4000 圖文傳真 Fax : 2714 8176 matter and were given to understand that the following, but not limited to, situations would have led to design changes:

- Unforeseen ground conditions
- Change in construction sequences/methods
- Requests by third parties necessitating changes

As for the details of the design changes and the additional costs involved in respect of different contracts under the XRL project, MTRCL expressed that the requested information is confidential in nature and the disclosure of which may prejudice MTRCL's position in the negotiation with their contractors in settlement of any claims arising from the design changes.

However, with a view to facilitating the work of the Select Committee, we offer to provide some examples of the design changes in respect of different contracts under the XRL project (at Annex) based on the information from the "Second Report by the MTRCL's Independent Board Committee on the Express Rail Link Project" for Member's reference.

Yours sincerely,

Jehan ,

(Henry Chan) Principal Government Engineer/Railway Development Railway Development Office Highways Department

Encl.

cc Secretary for Transport and Housing (Attn: Miss Winnie Wong)

Contract	Examples
810A	Changes to construction method
	Changes to temporary structures
	 Improving works area (e.g. ramps)
	 Re-sequencing (e.g. erection before diaphragm action)
	 Noise mitigation to extend working hours
810B	 Change in construction methods (e.g. shear keys)
	 Improvement to works access (e.g. ramps)
	Spoil disposal
	Re-sequencing (slab construction, Austin Road
	West Underpass)
811A	 Extension of work hours
	Additional D-wall
	 Changes to methods (bituthene board),
	Design (e.g. base slab area) and layout of
	construction site
811B	 Construction method (e.g. top down instead of
	bottom up for Lin Cheung Rd, pre-splitting,
	breakwater removal)
	 Layout of works area (e.g. temporary traffic flow
	of Jordon Rd, temporary footbridge, Lin Cheung
	Rd flips)
	 Re-sequencing (P-way access)
	 Extended working hours (E&M)
	 Additional resources (D-Wall plant)
820	 TBM modifications
	Re-sequencing of TBM drives and tunnel box
	construction
	Adding 3 rd shift

Examples of Design Changes under the XRL project

822	 Enlargement of Ventilation Adit
	 Additional shutters
823A	Second TBM
04JA	
	 Overtime working D
	Re-sequencing various works
	Change to tunnel box design
824	 Changes to design (height of piles, block walls)
	Relocation of the dismantling area for the TBMs
	into the tunnel to allow build-out of shaft
825	 Use of one additional TBM and conveyor belt
	system (including work gangs, trains, spoil pit)
	Relocation of cross passages to more favourable
	ground
	Increase openings to improve access points for
	track-laying contractors
826	Changes in design (e.g. shortening of section,
	adding 'Stage 2B' for dismantling TBM)
	Re-sequencing (e.g. buffer zone and concurrent
	cross passage way construction, concurrent
	construction of invert and walkways)
	 Change in construction method (jet grouting
	instead of bulkhead)
	motous or ouncroady
L	

Note:

1. The above examples are extracted from MTRCL's "Second Report by the Independent Board Committee on the Express Rail Link Project".

Abbreviation:

- 1. D-wall = Diaphragm wall
- 2. P-way = Permanent way
- 3. E&M = Electrical and mechanical
- 4. TBM = Tunnel Boring Machine