

Legislative Council Panel on Development

PWP Item No. 716CL

**Tseung Kwan O further development –
infrastructure works for Tseung Kwan O Stage 1 landfill site**

Follow-up of the Meeting held on 22 January 2019

At the meeting held on 22 January 2019, the Panel on Development discussed LC Paper No. CB(1)456/18-19(07) on the proposal to upgrade the remainder of 716CL “Tseung Kwan O further development – infrastructure works for Tseung Kwan O Stage 1 landfill site” (the Project) to Category A at an estimated cost of \$301.6 million in money-of-the-date (MOD) prices to carry out the remaining works comprising the Southern Bridge, Sewerage Facilities and ancillary works for the Project. The Administration was requested to provide the following information:

- (a) the construction cost of the proposed footbridge over the Eastern Channel connecting Tseung Kwan O (TKO) Area 68 and TKO Area 77 (Southern Bridge); and
- (b) whether the Administration had made reference to the construction costs of other footbridges of similar length and width when estimating the cost of the Southern Bridge; if yes, the details of the referencing construction works (and include relevant cost references in the submission to PWSC).

This note sets out our response to the request.

Construction cost of the proposed Southern Bridge

2. The construction cost of the proposed Southern Bridge is estimated at \$192.7 million in MOD prices. The cost breakdown of the project is as follows,

	\$ million (in MOD prices)
(a) Southern Bridge	192.7
(i) Main Bridge	140.6
(ii) Ramp Structures	52.1
(b) Sewerage Facilities	39.1
(c) Ancillary works	3.6
(d) Environmental mitigation measures	2.9
(e) Consultants' fees for	5.6
(i) contract administration	2.5
(ii) management of resident site staff (RSS)	3.1
(f) Remuneration of RSS	30.3
(g) Contingencies	27.4
Total	<hr/> <hr/> 301.6

Cost comparison between the proposed Southern Bridge and other similar footbridges

3. The construction cost level of footbridges involves a lot of factors, for instance, the complexity of the works, the physical location and environment in the vicinity of the works sites, the economic conditions at the time of inviting tenders, the tendering strategy of individual tenderer, etc. all have influence on the costs. The

factors are not exactly the same for each project. We now list out the construction costs of footbridges built under similar public works projects in Tseung Kwan O recently; and the construction costs of the proposed footbridges for reference. To facilitate a suitable comparison, details of the estimated construction cost for the recent footbridges as provided in the relevant Public Works Subcommittee (PWSC) papers and their respective estimated construction cost adjusted to September 2018 prices¹ are tabulated below –

PWP Item (date upgraded to Category A)	Footbridge location, Length, Clear width (Width), and Structural material	Estimated cost ²	Estimated Cost (in Sep 2018 prices)	
		Overall (\$million)	Overall (\$million)	Per square metre (\$million)
716CL (upgrading is currently sought from PWSC)	Southern Bridge – Across the southern end of the Eastern Channel, TKO Length of main deck: 150 m Width: 4.5 m Structural material: Steel	140.6 (in MOD prices)	119.7	0.18
158TB (May 2016)	Elevated walkway between Tong Ming Street and Tong Tak Street, TKO Length of main deck: 180 m Width: 5 m Structural material: Steel	139.6 (in Sep 2015 prices)	157.5	0.18
160TB (Feb 2014)	Footbridge across Po Yap Road, TKO Length of main deck: 40 m Width: 5 m Structural material: Steel	38.6 (in Sept 2013 prices)	47.7	0.24

**Development Bureau
Civil Engineering and Development Department
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¹ The estimated costs in September 2018 prices are derived by using the Government's statistics on the trend rate of change in the prices of public sector building and construction output for the relevant periods.

² Information of the estimated costs provided in the relevant PWSC papers. Since December 2017, all public works projects will only provide MOD prices information in PWSC papers.