

香港特別行政區政府  
The Government of the Hong Kong Special Administrative Region

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11 September 2019

Ms Sophie Lau  
Clerk to Panel on Transport  
Legislative Council Secretariat  
Legislative Council Complex  
1 Legislative Council Road  
Central  
Hong Kong

Dear Ms Lau,

**Legislative Council Panel on Transport**

**Meeting on 15 March 2019**

**Replacement of Traffic Control and Surveillance Systems and  
Other Systems in Government Tunnels**

In response to the Panel's request at the meeting on 15 March 2019, with respect to the differences between the new traffic control and surveillance system ("TCSS") of the Aberdeen Tunnel ("ABT") and the existing system thereat in terms of their functions, effectiveness as well as the coverage of the systems in identifying traffic situations of the tunnel, our reply is as follows.

The existing TCSS of the ABT commenced operation in 2005. The system consists of a closed circuit television system and an automatic incident detection ("AID") system for monitoring traffic situations. On the other hand, the new TCSS is a comprehensive computerised system that integrates the functions of tunnel traffic management on the same platform and implements more pre-defined traffic management procedures to enhance operational efficiency.

As far as the AID system is concerned, the existing detectors are equipped with image processing technology for detection of different on-site situations, including detection of smoke, stopped vehicle, vehicle movement in reverse direction and vehicle speed inside the tunnel tubes; as well as vehicle counting, detection of vehicle movement in reverse direction and vehicle speed outside the tunnel tubes. As for the new AID system, in addition to the existing functions, there will be further enhancement of the detectors by making use of the latest image processing technology. The new system will also feature additional functions, including vehicle counting inside the tunnel tubes, as well as detection of smoke and stopped vehicles outside the tunnel tubes.

Yours sincerely,



( Miss Venus Tsoi )  
for Secretary for Transport and Housing

c.c.:

Commissioner for Transport  
(Attn: Ms Candy Kwok)      2824 0433

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(Attn: Mr Arthur Lee)      2576 7276