

**For discussion
on 18 May 2015**

**Legislative Council Panel on Health Services
Extension of Operating Theatre Block of Tuen Mun Hospital**

Purpose

This paper briefs Members on the proposed extension of the Operating Theatre (OT) Block of Tuen Mun Hospital (TMH).

Background

2. Completed in 1989, TMH is the acute regional hospital of the New Territories West Cluster (NTWC) of the Hospital Authority (HA). Together with the other three hospitals of NTWC, namely Pok Oi Hospital, Castle Peak Hospital and Siu Lam Hospital, TMH serves Tuen Mun and Yuen Long districts with a total population size of 1 088 300 in 2013.

3. TMH provides a comprehensive range of specialty services at secondary and tertiary levels. It runs a 24-hour accident and emergency (A&E) department and provides a full range of acute, ambulatory, extended care and community medical services. It also serves as a tertiary referral centre for trauma and neurosurgery.

4. There has constantly been great demand for the services of TMH, in particular surgical services. In 2013/14, it has around 23 700 discharges

and deaths in surgical specialties in 2013-14, and the OT utilization rate for elective surgery in TMH is over 120%¹. The workload statistics on surgical services at TMH is among the highest of all HA hospitals.

Need for Improvement in Facilities and Expansion in Service Capacity to Meet Rising Demand

5. Currently, over 50% of the operations performed at the eleven OTs in TMH are emergency surgery, resulting in long waiting time for elective surgery of surgical and orthopaedic specialties. Besides, most of the ultra-major and major operations of NTWC are carried out in TMH, while ten out of the eleven existing OTs in TMH has an area of around 40 square metres (m²), as compared with the international standard of 60 m². The constraint in OT area limits the development and modernisation of surgical services in TMH to take advantage of technological advancements in the medical field.

6. Apart from the need to improve the provision of surgical facilities of TMH, it is also necessary to expand the hospital's A&E department in Block D to cater for the large number of patients. The number of total A&E attendances of TMH was around 226 000 in 2013-14 which was the highest among all HA hospitals. Besides, improvement to the facilities within the A&E department is necessary in order to meet modern standards for the delivery of emergency care. There is also a need to expand the adjoining radiology department in Block D as many patients seeking emergency care require radiological examinations such as computed tomography scan or magnetic resonance imaging for diagnosis.

¹ The OT utilization rate is the actual OT time used divided by the OT time allocated for elective surgeries. If the OT utilization rate is close to but not more than 100% of the allocated OT time, it implies that the supply and demand of OT resources are suitably matched.

7. With the population in Tuen Mun and Yuen Long districts projected to reach 1 257 800 by 2023 (representing an increase of 15.6% over the population in 2013), NTWC is faced with the challenge of anticipated further increase in service demand. To meet the increasing service need, there has been continuous expansion in service capacity in NTWC in the past few years to strengthen the provision of medical services to the local community, including the commissioning of additional beds at TMH and Pok Oi Hospital, opening of Tin Shui Wai (Tin Yip Road) Community Health Centre, and planned commissioning of the new Tin Shui Wai Hospital by phases in 2017. As the acute regional hospital and tertiary referral centre for the NTWC, there is a need to expand the OT service capacity in TMH to meet the increasing service demand associated with the growing population. We propose to construct an extension to the existing OT Block of TMH to provide new OTs for increased service capacity and capability, as well as to expand the existing A&E and radiology departments to ensure that patients in urgent and acute conditions may receive appropriate emergency care with radio-diagnostic support for enhanced clinical outcomes.

The Proposed Project

8. The scope of the proposed project comprises the following –
- (a) diversion of existing underground utilities including reprovisioning of the underground oil tank located at the open car-parking area outside the OT Block;
 - (b) construction of an extension to the OT Block over the open car-parking area to accommodate –

- (i) at least 18 OTs, with associated recovery and supporting areas;
 - (ii) intensive care unit;
 - (iii) delivery suites;
 - (iv) expanded central sterile supplies department; and
 - (v) expanded portion of the A&E department;
- (c) construction of link bridges to connect the extension block with the existing building; and
- (d) refurbishment and expansion of the existing A&E department, radiology department and OT Block to integrate with the extension block for coherent workflows.

Project Implementation

9. We plan to implement the proposed project in two stages as follows:

- (a) stage 1 covering the service diversion of underground utilities and foundation work; and
- (b) stage 2 covering the construction of the extension block with link bridges and refurbishment of concerned areas in the existing OT Block.

10. A site plan showing the location of the extension to the OT Block of TMH is at Enclosure.

11. The estimated cost of the proposed project is in the order of

\$3,150 million in money-of-the-day (MOD) prices². HA plans to invite tenders in September 2015 for carrying out the proposed stage 1 works. The contract will only be awarded to the successful tenderer after we have secured funding approval from the Finance Committee (FC). Subject to FC's approval, we aim to commence the Stage 1 works in 2016 for completion of the whole project in 2020. TMH will remain functional at all times and any disruption of services, if unavoidable, will be kept to a minimum.

Public Consultation

12. HA will consult the Social Services Committee of the Tuen Mun District Council in respect of the proposed project on 12 May 2015. HA will take into account members' comments when finalising the project design.

Advice Sought

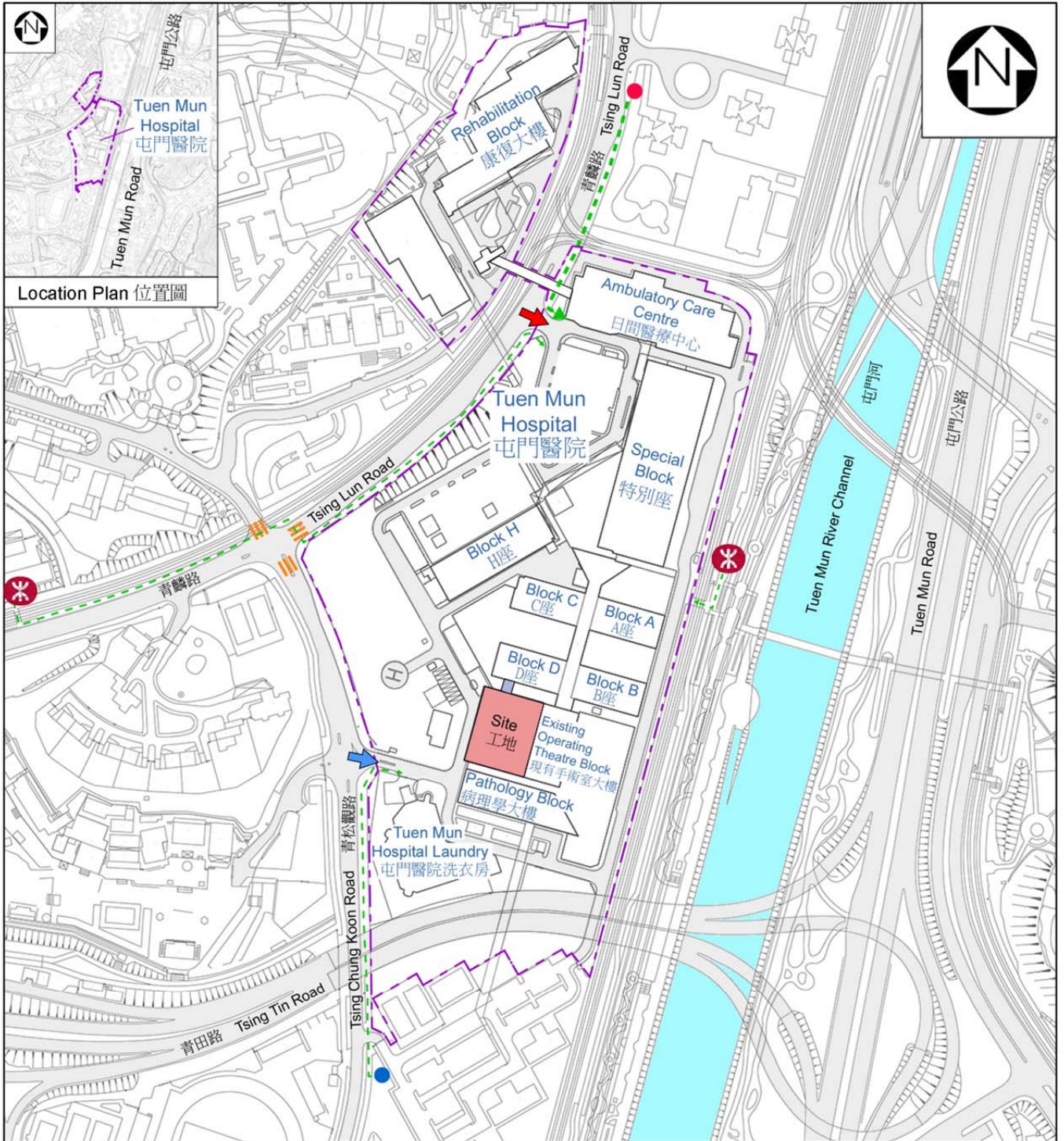
13. Members are invited to comment on the proposed project as outlined in this paper.

Food and Health Bureau

Hospital Authority

May 2015

² This figure represents the latest estimate of capital cost pending finalization of detailed design. We will update the cost estimate before submission to the Public Works Subcommittee.



Legends 圖例:

- | | | |
|--|---|---|
|  Site for Extension of Operating Theatre Block
擴建手術室大樓工地 |  Tuen Mun Hospital Site Boundary
屯門醫院範圍 |  Existing Bus Stop
現有巴士站 |
|  Vehicular Ingress / Egress
車輛出入口 |  Pedestrian / Barrier Free Route
行人 / 無障礙道路 |  Existing Mini-Bus Stop
現有巴士站 |
|  Ambulance Ingress / Egress
救護車出入口 |  Existing Pedestrian Crossing
現有行人過路處 |  Existing Light Rail Stop
現有輕鐵站 |

Project Title 項目名稱:

8086MM - Extension of Operating Theatre Block for Tuen Mun Hospital
屯門醫院擴建手術室大樓工程

Site Location Plan (Not to Scale)

工地平面圖 (不按比例)