

ITEM FOR PUBLIC WORKS SUBCOMMITTEE OF FINANCE COMMITTEE

**HEAD 705 – CIVIL ENGINEERING
Civil Engineering – Multi-purpose
35CG – Greening master plan for Kowloon West – studies and works**

Members are invited to recommend to Finance Committee –

- (a) the upgrading of part of **35CG**, entitled “Greening master plan for Kowloon West – works for Tsim Sha Tsui and studies for other selected areas”, to Category A at an estimated cost of \$68.0 million in money-of-the-day prices; and
- (b) the retention of the remainder of **35CG** in Category B.

PROBLEM

We need to improve the living environment in Hong Kong by implementing measures recommended in the greening master plan (GMP) for Tsim Sha Tsui, and to proceed with development of GMPs for other selected areas in Kowloon West.

/PROPOSAL

PROPOSAL

2. The Director of Civil Engineering and Development, with the support of the Secretary for the Environment, Transport and Works, proposes to upgrade part of **35CG** to Category A at an estimated cost of \$68.0 million in money-of-the-day (MOD) prices to carry out greening works in Tsim Sha Tsui and to develop GMPs for other selected areas in Kowloon West.

PROJECT SCOPE AND NATURE

3. The scope of **35CG** comprises development of GMPs, detailed design and implementation of greening works for selected areas in Kowloon West¹.

4. The part of **35CG** which we now propose to upgrade to Category A comprises the following –

- (a) implementation of greening works as recommended in the GMP for Tsim Sha Tsui including –
 - (i) planting and establishment of about 600 trees and 160 000 shrubs; and
 - (ii) landscape hardworks;
- (b) development of GMPs and detailed design of greening works for the selected areas in Kowloon West other than Tsim Sha Tsui; and
- (c) site investigation.

A plan showing the boundary of works to be carried out in Tsim Sha Tsui and other selected areas in Kowloon West is at Enclosure 1. An illustration of some typical greening works is shown at Enclosure 2.

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¹ These include Tsim Sha Tsui, Yau Tsim Mong, Sham Shui Po and Kowloon City Districts. The development of GMP and detailed design of greening works for Tsim Sha Tsui have been completed separately under a pilot scheme.

5. We plan to commence the proposed greening works for Tsim Sha Tsui in March 2006 for completion in December 2006. We also plan to start developing the GMPs for Mong Kok and Yau Ma Tei in January 2006 for completion in late 2006, and the GMPs for Sham Shui Po and Kowloon City Districts in early 2007 for phased completion by end 2009.

JUSTIFICATION

6. A GMP seeks to define the overall greening framework of an area by identifying suitable locations for planting together with desirable themes and species, thus serving as a guide to the planning, design and implementation of greening works for continuous and consistent results.

7. Building on positive public response to the GMP for Tsim Sha Tsui, we propose to implement the related greening works and embark on development of GMPs for other selected areas in Kowloon West. Due to limited available in-house capacity, we will engage consultants to carry out the planning and detailed design involved.

FINANCIAL IMPLICATIONS

8. We estimate the capital cost of the project to be \$68.0 million in MOD prices (see paragraph 9 below), made up as follows –

	\$ million
(a) Greening works as recommended in the GMP for Tsim Sha Tsui	24.6
(i) planting and establishment of trees and shrubs	9.8
(ii) landscape hardworks	14.8
(b) Consultants' fees	28.6
(i) development of GMPs for areas mentioned in paragraph 4(b)	22.8

/(ii)

	\$ million	
(ii) detailed design of related greening works for areas mentioned in paragraph 4(b)	5.8	
(c) Site investigation	8.7	
(d) Contingencies	6.1	
	Sub-total	68.0 (in September 2005 prices)
(e) Provision for price adjustment	0.0	
	Total	68.0 (in MOD prices)

A breakdown by man-months of the estimate for the consultants' fees is at Enclosure 3.

9. Subject to approval, we will phase the expenditure as follows –

Year	\$ million (Sept 2005)	Price adjustment factor	\$ million (MOD)
2005 – 2006	0.8	1.00000	0.8
2006 – 2007	15.7	1.00125	15.7
2007 – 2008	24.3	1.00125	24.3
2008 – 2009	18.1	1.00125	18.1
2009 – 2010	7.0	1.00125	7.0
2010 – 2011	2.1	1.01627	2.1
	<hr/> 68.0		<hr/> 68.0

10. We have derived the MOD estimates based on the Government's latest forecast of trend rate of change in the prices for public sector building and construction output from 2005 to 2011. The proposed greening works mentioned in paragraph 4(a) above will be tendered through a standard remeasurement contract because the quantities may vary depending on actual site constraints and underground utilities with no provision for price adjustment as the contract period will not exceed 21 months. The consultancies mentioned in paragraph 4(b) above will be awarded on a lump sum basis with provision for price adjustment where the consultancy period exceeds 12 months. Site investigation works mentioned in paragraph 4(c) above will be carried out by term contractor.

11. We estimate that the annual recurrent expenditure arising from the proposed greening works for Tsim Sha Tsui to be \$1.0 million. The development of GMPs and associated site investigation will not give rise to any additional recurrent expenditure.

PUBLIC CONSULTATION

12. We gave a briefing to the Yau Tsim Mong District Council on 16 December 2004 with the broad concept of GMP and again on 28 April 2005 with the GMP for Tsim Sha Tsui covering six pilot greening schemes and the proposed conversion of some roadside parking spaces on Carnarvon Road into planting zones. The Yau Tsim Mong South Area Committee was also consulted on 17 May 2005 and the Town Planning Board took note of the GMP for Tsim Sha Tsui on 8 July 2005.

13. We consulted the Legislative Council Panel on Planning, Lands and Works on the development of GMPs and implementation of related planting works on 13 July 2005 and consulted it again on 22 November 2005 regarding the financial implications and detailed scope of works seeking upgrading to Category A. Members indicated no objection to the proposal on both occasions.

14. We will solicit early input from stakeholder groups such as District Councils and the Town Planning Board when developing GMPs for other selected areas in Kowloon West.

ENVIRONMENTAL IMPLICATIONS

15. This is not a designated project under the Environmental Impact Assessment Ordinance (Cap. 499). The project has no long-term environmental impact, whilst short-term construction impacts could be mitigated through measures to control noise, dust, and site run-off nuisances.

16. We have considered different construction methods, such as the use of precast instead of cast-in-situ planter boxes, in planning and designing the proposed greening works in Tsim Sha Tsui to reduce the generation of construction and demolition (C&D) materials where possible. In addition, we will require the contractor to reuse inert C&D materials (e.g. ‘excavated soil’) on site or in other suitable construction sites as far as possible, so as to minimize the disposal of C&D materials to public fill reception facilities. We will encourage the contractor to maximize the use of recycled or recyclable C&D materials, as well as the use of non-timber formwork to further minimize the generation of construction waste.

17. We will require the contractor to submit a waste management plan (WMP) for approval. The WMP will include mitigation measures to avoid, reduce, reuse and recycle C&D materials. We will ensure that the day-to-day operations on site comply with the approved WMP and will control the disposal of public fill and C&D waste to public fill reception facilities and landfills respectively through a trip-ticket system. We will require the contractor to separate public fill from C&D waste for disposal at appropriate facilities. We will also record the disposal, reuse and recycling of C&D materials for monitoring purpose.

18. We estimate that the project will generate about 14 000 tonnes of C&D materials. Of these, we will reuse about 1 400 tonnes (10%) on site, deliver about 11 400 tonnes (81%) to public fill reception facilities² for temporary storage before reuse and dispose of about 1 200 tonnes (9%) at landfills. The total cost for accommodating C&D materials at public fill reception facilities and landfills is estimated to be \$457,800 for this project (based on unit cost of \$27/tonne for disposal at public fill reception facilities and \$125/tonne³ at landfill sites).

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² Public fill reception facilities are specified in Schedule 4 of the Waste Disposal (Charges for Disposal of Construction Waste) Regulation. Disposal of public fill in public fill reception facilities requires a licence issued by the Director of Civil Engineering and Development.

³ This estimate has taken into account the cost for developing, operating and restoring the landfills after they are filled and the aftercare required. It does not include the land opportunity cost for existing landfill sites (which is estimated at \$90/m³), nor the cost to provide new landfills (which are likely to be more expensive) when the existing ones are filled.

LAND ACQUISITION

19. The proposed works do not require any land acquisition.

BACKGROUND INFORMATION

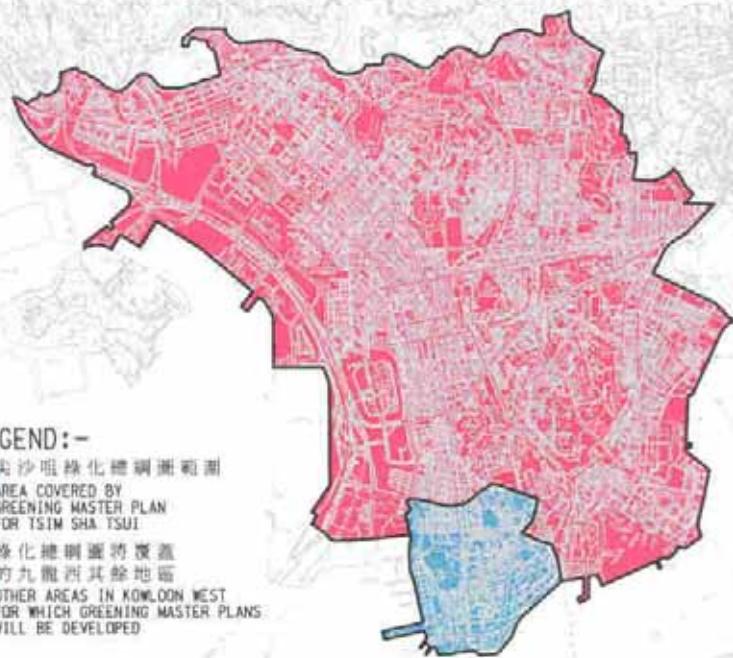
20. We upgraded **35CG** to Category B in September 2005.

21. We engaged consultants to undertake the development of GMP for Tsim Sha Tsui as a pilot scheme in September 2004 under the block allocation **Subhead 5101CX** "Civil engineering works, studies and investigations for items in Category D of the Public Works Programme" at a cost of \$1.3 million. Detailed design of the greening works in Tsim Sha Tsui was subsequently undertaken using in-house staff resources.

22. In order to ascertain the response from local stakeholders before full scale implementation, we completed six pilot schemes in Tsim Sha Tsui in November 2005 under block allocation **Subhead 5101CX** at a total cost of \$2.4 million. We also included an item under block allocation **Subhead 5101CX** to engage term contractor at an estimated cost of \$1.2 million to conduct site investigation in Tsim Sha Tsui for completion in February 2006.

23. The proposed works will not involve any tree removal.

24. We estimate that the proposed works will create about 90 jobs (50 for labourers and another 40 for professional/technical staff) providing a total employment of 1 080 man-months.



圖例 LEGEND:-

The legend consists of two colored squares with corresponding text labels. The first square is blue and labeled 'AREA COVERED BY GREENING MASTER PLAN FOR TSIK SHA TSUI'. The second square is red and labeled 'OTHER AREAS IN KOWLOON WEST FOR WHICH GREENING MASTER PLANS WILL BE DEVELOPED'.

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项目 title 工務計劃項目第35CG號 九龍西綠化伸幅圖 研究及工程 <u>PMP ITEM No. 35CG</u>	姓名 name 鍾思勤 K. P. CHUEN	簽名 initial <i>Amw</i>	日期 date 6/10/05
	姓名 name 林子強 K. M. CHIU	簽名 initial <i>Am</i>	日期 date 6/10/05
	姓名 name 陳志強 P. M. CHAN	簽名 initial <i>ccs</i>	日期 date 6/10/05
地點 office	總部 HEADQUARTERS		
編號 no.	日期 date	內容摘要 description	批註 checked
繪圖編號 drawing no.	HQS G149		比例 scale 1:50000
 土木工程拓展署 CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT			



樹槽種樹
Tree Planting in Tree Pit



花槽種植
Planting in Planter



牆腳花槽種植攀緣植物
Climber Planting in Toe Planter



籬笆種植
Hedge Planting



中央分隔帶種植
Planting in Central Median



花盆種植
Planting in Movable Planter

典型綠化工程
Illustration of Typical Greening Works

35CG - Greening master plan for Kowloon West – studies and works

Breakdown of the estimates for consultants' fees

Consultants' staff costs		Estimated man-months	Average MPS* salary point	Multiplier <small>(Note 1)</small>	Estimated fee (\$ million)
(a) Development of GMPs for Kowloon West except Tsim Sha Tsui <small>(Note 2)</small> —					
(i) Review of current greening status and collation of background information	Professional Technical	20.0 40.0	38 14	2.0 2.0	2.2 1.4
(ii) development of conceptual GMPs	Professional Technical	46.0 52.0	38 14	2.0 2.0	5.0 1.9
(iii) formulation of preliminary GMPs	Professional Technical	72.0 43.0	38 14	2.0 2.0	7.8 1.5
(iv) drawing up of greening measures and finalized GMPs	Professional Technical	20.0 22.0	38 14	2.0 2.0	2.2 0.8
				Sub-total	<u>22.8</u>
(b) Detailed design of greening works <small>(note 2)</small> —					
	Professional Technical	42.0 34.5	38 14	2.0 2.0	4.6 1.2
				Sub-total	<u>5.8</u>
				Total	<u>28.6</u>

* MPS = Master Pay Scale

Notes

1. A multiplier of 2.0 is applied to the average MPS salary point before arriving at full cost including overheads and profits as the staff concerned will be employed by the consultants (as at 1.1.2005, MPS point 38 = \$54,255 per month and MPS point 14 = \$18,010 per month).
2. We will only know the actual man-months and actual cost after completion of works.