

NOTE FOR PUBLIC WORKS SUBCOMMITTEE OF FINANCE COMMITTEE

Supplementary information on 323WF - Provision of water supply to Ngong Ping

INTRODUCTION

In considering the paper referenced PWSC(2002-03)83 on the above project on 22 January 2003, the Public Works Subcommittee requested the Administration to provide supplementary information on -

- (a) the work being done to explore alternative modes of water supply to remote villages to ensure cost-effectiveness without compromising the objective of providing safe and reliable fresh water supply for these villages;
- (b) the perspective diagrams of the proposed Ngong Ping fresh water tank; and
- (c) what the existing fresh water demand in Ngong Ping was and how the estimated daily fresh water demand of about 1 200 cubic metres (m³) by 2016 in Ngong Ping was arrived at.

THE ADMINISTRATION'S RESPONSE

Water supply to remote villages

2. Currently, there are 19 remote villages not yet provided with metered water supply and they are scattered in Lantau, Sai Kung, Tai Po and outlying islands with a total population of about 500. The Director of Water Supplies is carrying out a review on the provision of water supply to these remote villages in the New Territories. We plan to complete the review by March 2003 and present the details of the review and findings to the LegCo Panel on Planning, Lands and Works in April 2003. The review covers the cost-effectiveness of the various modes of providing water supply including extension of the distribution network, installation of a small local system with treatment facilities, installation of a desalination plant for villages near the sea and the use of water boats to transport water to remote villages on outlying islands.

/Perspective.....

Perspective diagrams of Ngong Ping fresh water tank

3. A photomontage and a perspective diagram illustrating the key features and visual effect of the Ngong Ping fresh water tank are at Enclosures 1 and 2 respectively.

Water demand build-up in Ngong Ping

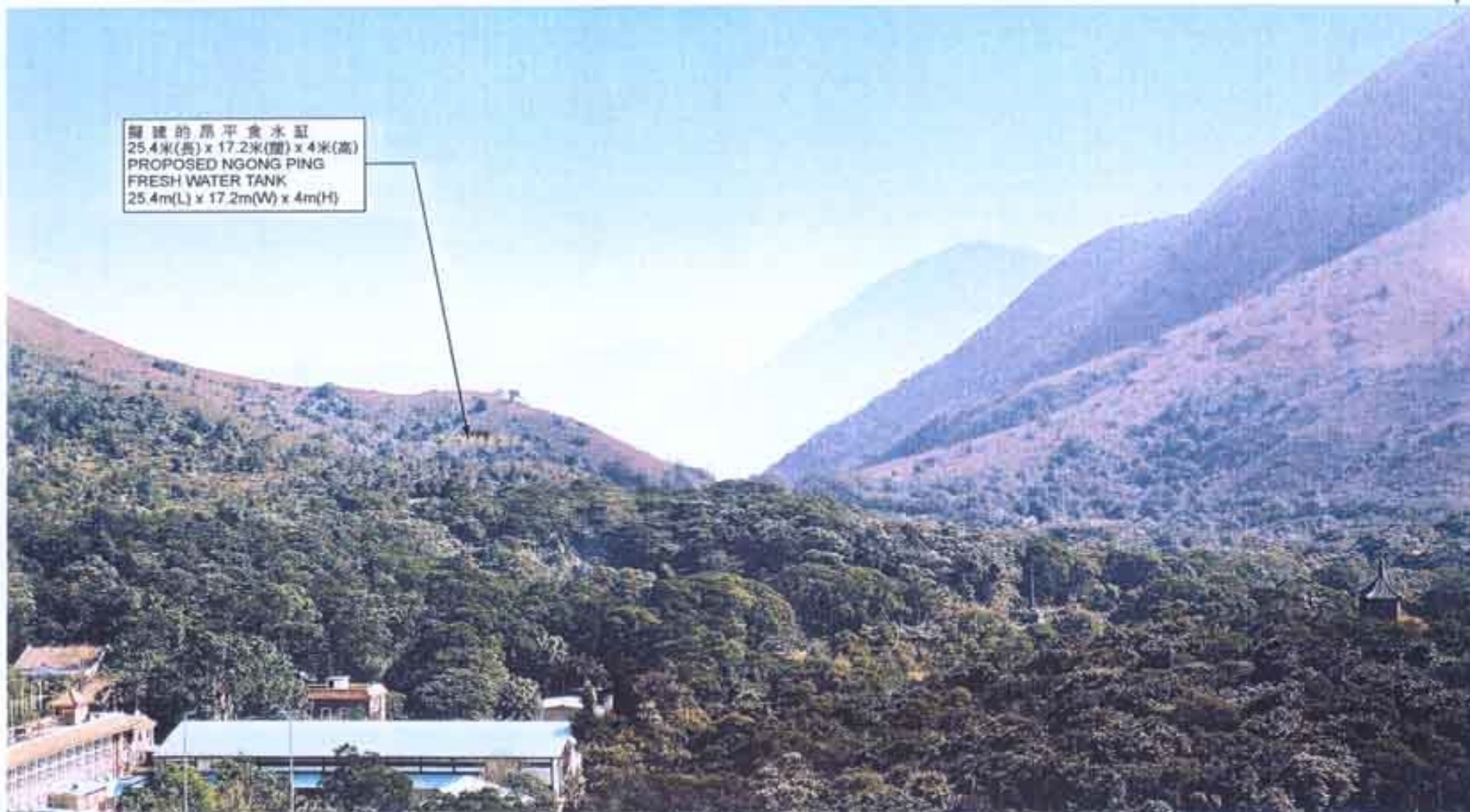
4. The existing water supply system for Ngong Ping and the nearby Tei Tong Tsai can only cope with a population of 580 and some tourist-related activities at the Po Lin Monastery with a mean daily fresh water demand of about 260 m³. After completion of the Cable Car project, it is forecast that the average daily number of visitors to Ngong Ping will increase from about 3 000 to about 13 000 and reaching a peak daily patronage of about 47 000 by 2016. To meet this new fresh water demand, we need to design the proposed water supply system for Ngong Ping to provide about 1 200 m³ of fresh water a day of which about 790 m³ are for potable use and 410 m³ for non-potable use.

5. The estimated fresh water demand in Ngong Ping of 1 200 m³ by 2016 is as follows –

User	No. of users	Estimated water demand per user (m ³ /day)	Estimated water demand (m ³ /day)
(a) peak daily no. of visitors	44 000 ¹	0.025	1 100.0
(b) residents and employees in the youth hostel	85	0.300	25.5
(c) Ngong Ping Sewerage Treatment Works	N.A.	50	50
Total	44 085		1 175.5 (rounded up to 1 200 m ³ /day)

Environment, Transport and Works Bureau
February 2003

¹ As the existing water supply system for Ngong Ping and Tei Tong Tsai can cater for the fresh water demand of about 3 000 visitors a day, the proposed water supply system needs to cater for only 44 000 visitors, i.e. 3 000 less than the peak daily no. of 47 000 visitors by 2016.



擬建的昂坪食水缸
 25.4米(長) x 17.2米(闊) x 4米(高)
 PROPOSED NGONG PING
 FRESH WATER TANK
 25.4m(L) x 17.2m(W) x 4m(H)

擬建的昂坪食水缸模擬影像(從天壇大佛觀看)

PHOTOMONTAGE OF PROPOSED NGONG PING FRESH WATER TANK (VIEW FROM THE BUDDHA STATUE)

REVISED APPROVED

 總工程師/總師 CE / Des

6/2/2003

(平級工程)
 (CAT 'A' Submission)

工務計劃項目第323WF號 — 提供昂坪供水系統
 P.W.P. ITEM NO. 323WF — PROVISION OF WATER SUPPLY TO NGONG PING



水務署
 WATER SUPPLIES DEPT.

草圖編號 SK 62002 / 205 / 001
 SKETCH NO.



擬建的昂坪食水缸透視圖
 PERSPECTIVE DIAGRAM OF PROPOSED NGONG PING FRESH WATER TANK

批准 APPROVED

 水務工程師 CE / Des
 6/2/2003

工務計劃項目第323WF號 — 提供昂坪供水系統
 P.W.P. ITEM NO. 323WF — PROVISION OF WATER SUPPLY TO NGONG PING
 (中級工程)
 (CMT 'W' Submission)

 水務署
 WATER SUPPLIES DEPT.
 草圖編號 SK 62002 / 205 / 002
 SKETCH NO.