

Preliminary Assessment Studies for the Conversion of Ex-Sai Kung Central Primary School at Ho Chung, Sai Kung

ANEWR
Environmental & I.T. Consultants

**CLIENT:**

SOCIAL WELFARE DEPARTMENT (SWD) VIA
MANNINGS (ASIA) CONSULTANTS LTD

LOCATION: HONG KONG

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TAGS: TRAFFIC NOISE IMPACT ASSESSMENT
(TNIA), HONG KONG PLANNING STANDARDS
& GUIDELINES (HKPSG),

USE OF TECHNOLOGY: ROAD TRAFFIC NOISE
MODELLING, NOISE MEASUREMENTS

Background

Social Welfare Department (SWD) identified a site at Sai Kung for the conversion of the ex-Sai Kung Central Primary School site at Ho Chung near the round-about of Nam Pin Wai Road and Hiram's Highway, into an integrated rehabilitation services complex (IRSC). A traffic noise impact assessment (TNIA) was required to demonstrate the environmental acceptability of the proposed development in the site. Based on the TNIA, noise exceedances were predicted at some of the noise sensitive use rooms and dormitories at different floor levels.

Our Roles

ANewR carried out the TNIA to evaluate the potential road traffic noise impact quantitatively according to the "Calculation of Road Traffic Noise" procedures developed by the United Kingdom Department of Transport, 1988 (CRTN), applying different assessment standards based on different room uses, and exploring and identifying appropriate noise mitigation measures in accordance with the Hong Kong Planning Standards & Guidelines (HKPSG).

Key Values to Client

ANewR provided professional advice in recommending viable solutions in dealing with the site-specific constraints and opportunities. In dealing with the traffic noise from Hiram's Highway and Nam Pin Road, and the wide range of room types within the proposed IRSC, we duly explored practicable mitigation measures such as high solid boundary walls as a noise barrier to alleviate the potential road traffic noise impact so as to fulfil the compliance requirement.