

Construction Safety Week 2020 Sharing



Main Contractor:	China State Joint Venture
Contract No.:	DC/2018/05
Contract Title:	Relocation of Sha Tin Sewage Treatment Works to Caverns - Site Preparation and Access Tunnel Construction
Project Owner:	Drainage Services Department
Supervising Company:	AECOM Asia Company Limited



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JOINT VENTURE

第一階段工程的範圍： Stage 1 Works:

圖例 Legend

----- 第一階段工程範圍

Site Boundary of Stage 1 Contract

連接亞公角山路及通風井的道路工程

The access road adjoining A Kung Kok Shan Road
and the proposed ventilation shaft

隧道

Access tunnel

護土構築物

Retaining structures

臨時行車天橋

Temporary vehicular bridge

臨時隔音屏障

Temporary noise barriers

地盤平整

Site formation

行人路及單車徑臨時改道

Temporary diversion of a section of
the existing footpath and cycle track

Scope of Work

- Site formation
- Retaining structures
- Access tunnel
- Access road
- Temporary steel bridge
- Temporary noise barrier
- Community liaison center
- Utilities diversion

Site Constraint

- Schools & residential buildings
- Caring facilities
- Grave over 100yrs
- Valuable rare flora species
- Works space limitation
- Natural stream



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JOINT VENTURE**

Site Safety Performance and Recognition

愛民新灣民新村
致：香港特別行政區渠務署、艾美康顧問有限公司及中國建築聯會
合約編號：DC/2018/05
有關沙田污水處理廠擴充工程之合約，已獲渠務署、艾美康顧問有限公司及中國建築聯會之認可。此項合約之執行，將為沙田污水處理廠擴充工程之順利進行提供保障。此項合約之執行，將為沙田污水處理廠擴充工程之順利進行提供保障。

**ZERO
ACCIDENT**

渠務署、艾美康顧問有限公司及中國建築聯會之認可。此項合約之執行，將為沙田污水處理廠擴充工程之順利進行提供保障。此項合約之執行，將為沙田污水處理廠擴充工程之順利進行提供保障。

沙田區公署
渠務署
艾美康顧問有限公司
中國建築聯會

二零一九年十一月八日

鄰舍輔導會怡欣山莊
THE NEIGHBOURHOOD ADVICE-ACTION COUNCIL
HARMONY MANOR
新界沙田安公角山路45號
電話/ Tel: 2637 9000 傳真/ Fax: 2637 9298 電郵/ E-mail: hnam@naac.org.hk

敬啟者：
鄰舍輔導會怡欣山莊、屋宇及職員知悉「沙田沙田污水處理廠擴充工程」將會在山莊附近興建「臨時炸藥儲存庫」、「通風井」及「維修開工工程」後，對這些工程之影響。

**NO
PROSECUTION**

敬啟者：
屋宇及職員知悉「沙田沙田污水處理廠擴充工程」將會在山莊附近興建「臨時炸藥儲存庫」、「通風井」及「維修開工工程」後，對這些工程之影響。

二零一九年十一月八日

附件：怡欣山莊家屬及職員聯署名單

致：香港特別行政區渠務署、艾美康顧問有限公司及中國建築聯會
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**NO
CONVICTION**

渠務署、艾美康顧問有限公司及中國建築聯會之認可。此項合約之執行，將為沙田污水處理廠擴充工程之順利進行提供保障。此項合約之執行，將為沙田污水處理廠擴充工程之順利進行提供保障。

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中國建築聯會

二零一九年十一月八日

Implementation of Behaviour Advancement Programme

Period \ Observation	1st Task	2nd Task	3rd Task	4th Task
Site Vehicle and Mobile Plant Driving	✓			
Work at Height		✓		
Mechanical lifting for mobile cranes			✓	
Confined Space				✓

Implement 2 BAP tasks concurrently

Task 1: Work at height



Task 2: Site vehicle & mobile plant



Evaluation and analysis



Follow-up training



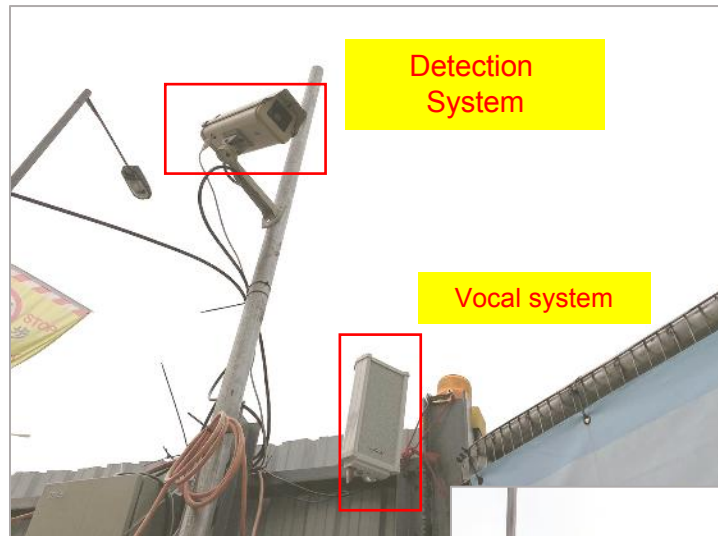
Adopt MiC for Construction of Community Liaison Center



Adopt DfMA for Bridge Construction



AI system for Enhancement of Safety Performance



Adopt Safety Devices to Streamline Site Safety Control



Lightning distance detector

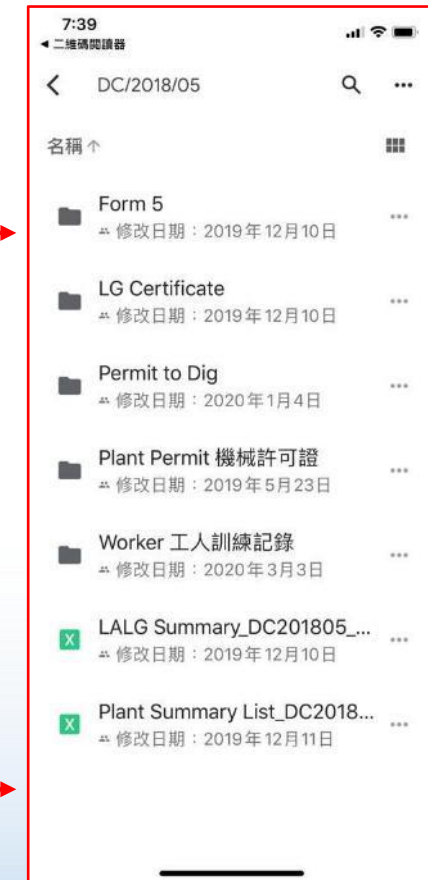
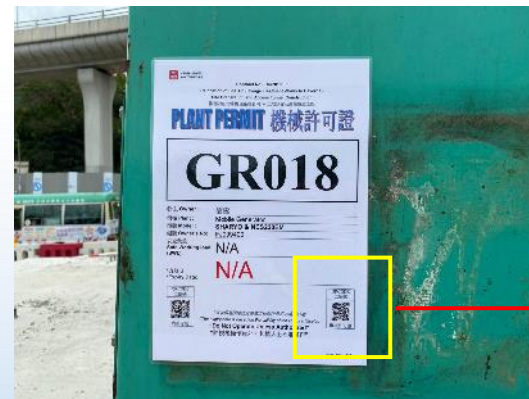
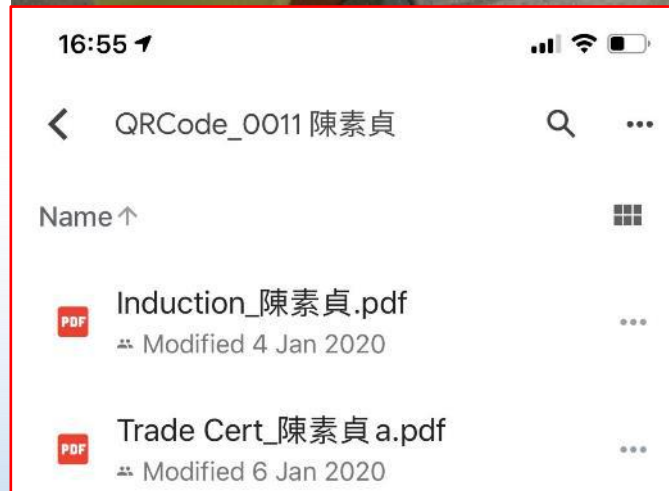


Gas leakage detector

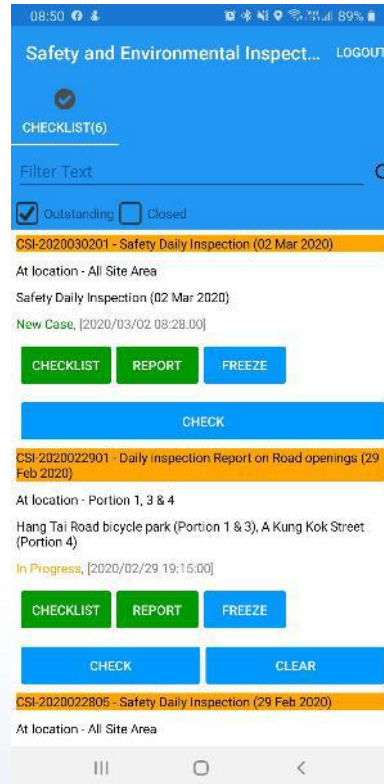


Solar audio broadcast device

QR Code System for Enhancement of Safety Management



Develop E-Safety Inspection Apps to Resolve Safety Issues More Effectively

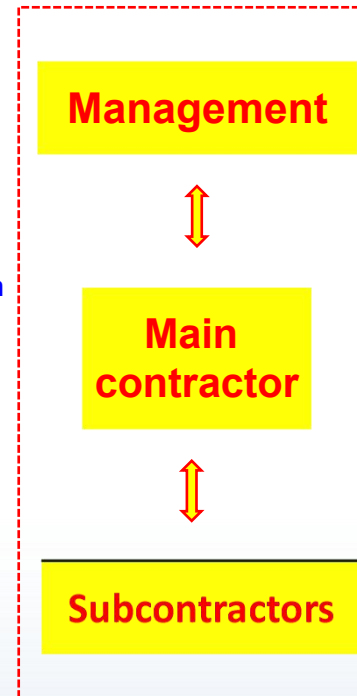
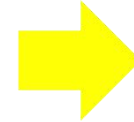


E-Safety Inspection Apps

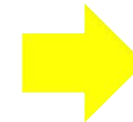


Editable checklist to cope with actual works



Instant notification

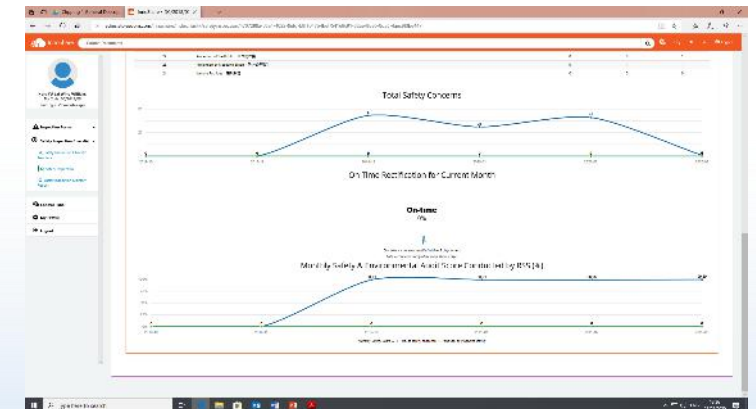


Extend to include the participation of all Subcontractors



Prompt reaction to rectify unsafe conditions

No	Item_description	Y	N	NA	Agreed date for completion	Date completed	Rectification Status
3	Check and ensure the gas hoses / pressure gauge in good condition 定期檢查氣體軟管 / 壓力錶是否狀況良好		✓		22-2-2020	20-2-2020	Accepted
Photo (Before)		Location:		Photo (After)		Rectification:	
		Portion 4					
Description: Crack was found on the gas hose surface						Description:	



Data analysis to assist in formulating safety training plan



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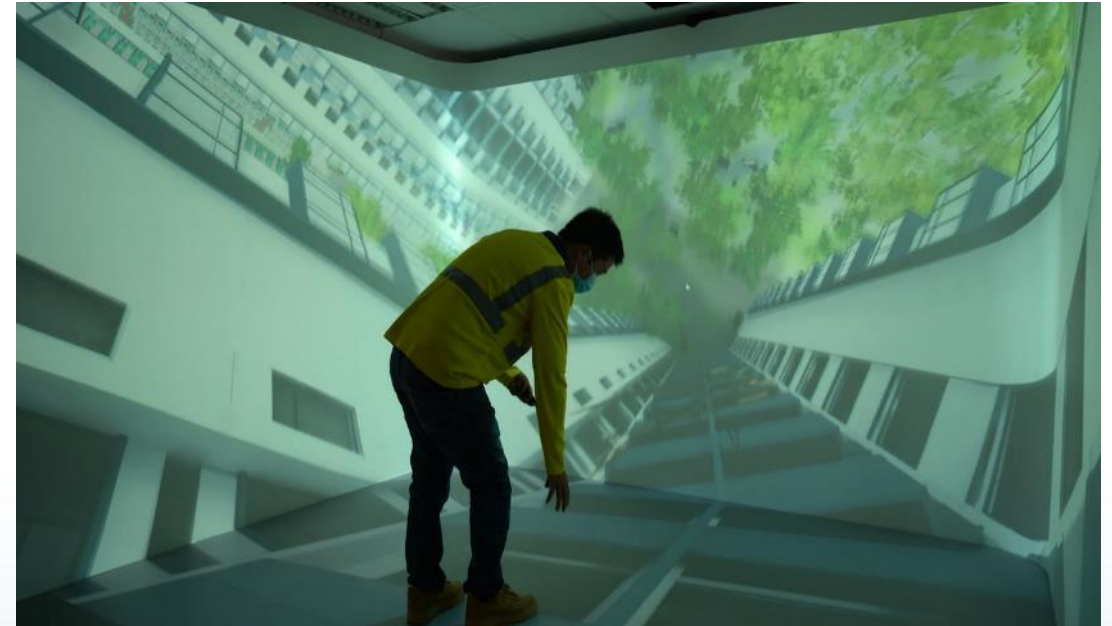


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Apply 4D Immersive CAVE System for enhancement safety training

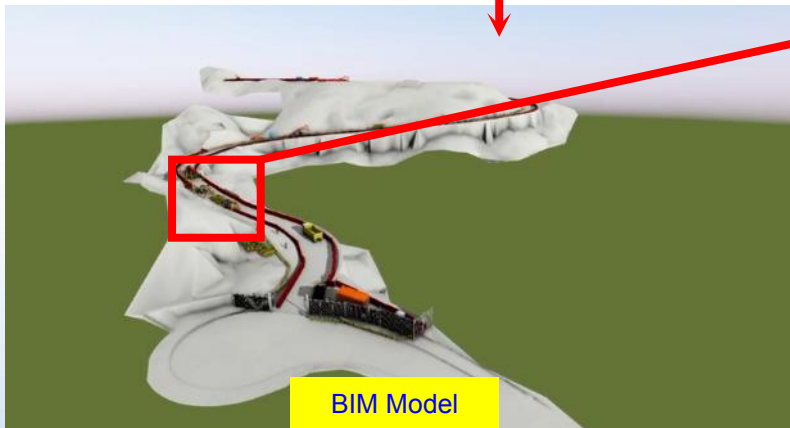


Immersive environment provides remarkable experience for newcomers during induction safety training

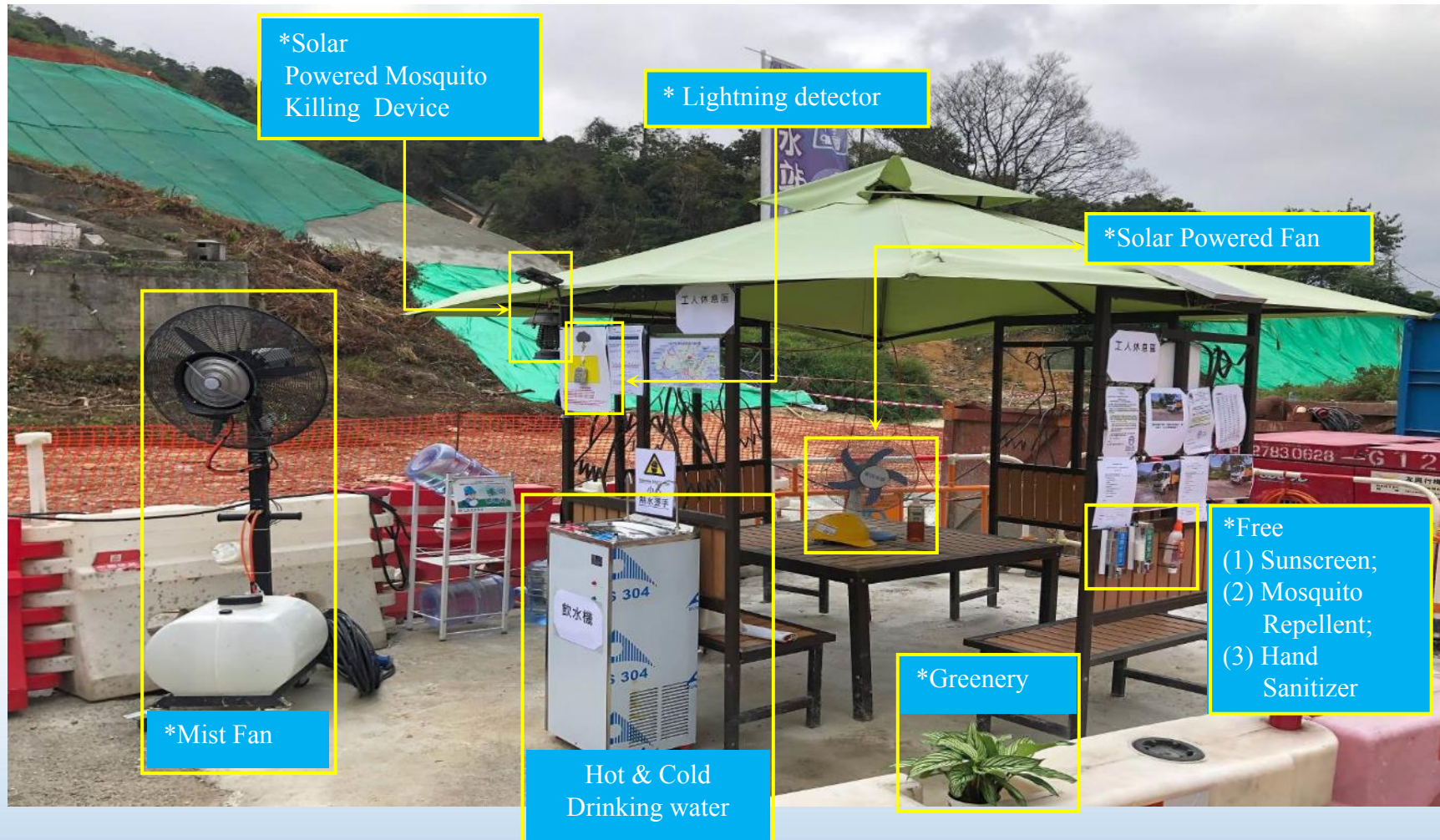


Incorporate the CIC VR training kits into CAVE System for enhancement of safety training

Develop Project Specific Safety Training Game Based on Actual Site Condition



Deploy high standard shaded resting facilities for workers



Health Assurance Measures for Workers



Free medical examinations



Provide free face masks daily



Health check during induction training

Co-organize health education with outside professional practitioners



**Healthy Diet Talk provided by The
Taisho Pharmaceutical HK Ltd.**



**Cancer Prevention Talk provided by the
Hong Kong Anti-Cancer Society**

Adopt deodorizing agent to improve indoor air quality



Foster an Effective Communication Channel to Avoid Complaint



Cultivate a Harmony Relationship with Neighborhoods



Care of the Neighborhoods



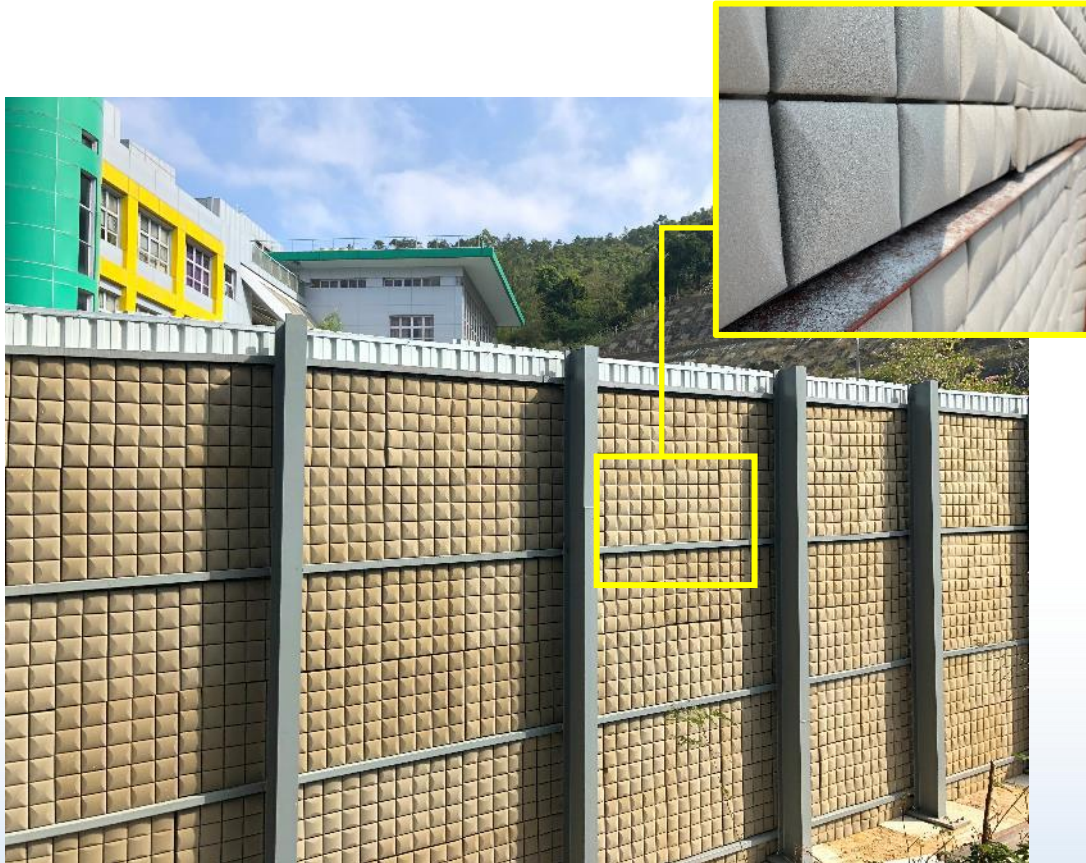
Improve Construction Site Scenery



Improve Construction Site Scenery



Reduce Noise Impact



Dust Mitigation Measures



Upcycle Wood Waste for Production of Furniture



Waste Avoidance Measures



Waste Avoidance Measures



Buildings to be Demolished is Retained as Worker's Resting Facility



**Hand held
massager provided**



More comfortable toilets



Ice Maker



Air conditioning



Hot water shower



AED

Collect Construction Waste for Planting and Greening the Site



Use of Renewable Energy



Conservation of Rare Flora Species

