



Date: 24 September 2024

Your ref:

Our ref: PL-202409043

Architectural Services Department 40/F, Queensway Government offices 66 Queensway, Hong Kong

Attn: Mr. Vincent Kwok

Dear Mr. Kwok,

Re: Contract No. SS K/509

Provision of Independent Environmental Checker Consultancy for Design and Construction of Kong Nga Po Police Training Facilities Verification of Monthly EM&A Report (August 2024)

Reference is made to the Monthly EM&A report (August 2024) provided by ET via email on 9 September 2024 and subsequent revision (Version 2) submitted on 23 September 2024.

Please be informed that we have no adverse comments on the revised Monthly EM&A report (August 2024) (Version 2). We hereby verify the submission is in accordance with Condition 3.4 of Environmental Permit No. FEP-01/510/2016.

Thank you for your attention.

Yours sincerely, For and on behalf of Acuity Sustainability Consulting Limited

Ir Y. H. LAW

Independent Environmental Checker

c.c. Ka Shing Management Consultancy Ltd.

## Provision of Environmental Team consultancy for Design and Construction of Kong Nga Po Police Training Facilities (Programme No. 279LP)

# Monthly Environmental Monitoring and Audit Report for August 2024 (Version 2)

#### Disclaimer

The information provided in this report is for presentation. All information in the report is provided in good faith, and every effort has been made for the information contained herein at the time of publication. However, our company disclaims all responsibilities and liabilities for incompleteness within this report.

Ka Shing Management Consultancy Ltd. www.ka-shign.net Unit 2, 13/F Kai Yue Commercial Building, 2C Argyle St, Mong Kok, Kowloon

Provision of Environmental Team consultancy for Design and Construction of Kong Nga Po Police Training Facilities (Programme no. 279LP) Monthly EM&A Report – August 2024

Our ref: 23-9-2024

23-9-2024

By email: kwokhw@archsd.gov.hk

Architectural Services Department 40/F, High Block, Queensway Government Offices, 66 Queensway, Hong Kong (Attn: Mr. Vincent Kwok)

Dear Mr. Kwok,

Re: Quotation No. PMB202/8480/2022/A01/A

Provision of Environmental Team consultancy for Design and Construction of Kong Nga Po
Police Training Facilities (Programme no. 279LP)

-Submission of the monthly EM&A report in August 2024

We refer to the Environmental Permit No. FEP-01/510/2016 for the captioned project.

Subject to the accuracy and authenticity of all the information provided to us, we hereby certify, in accordance with Conditions 3.4 of Environmental Permit No. FEP-01/510/2016, that the information is a representation of what it signifies.

Thank you very much for your attention and please feel free to contact Mr. Lee at 9382 4204 should you require further information.

Yours faithfully,

For and on behalf of Ka Shing Management Consultant Limited

Mr. W. H. Lee

**Environmental Team Leader** 

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#### **EXECUTIVE SUMMARY**

#### Introduction

- E1. This document represents the 17th monthly report detailing the Environmental Monitoring and Audit (EM&A) activities for the Kong Nga Po Police Facilities Project, which operates under Environmental Permit No. FEP-01/510/2016. This report was prepared by Ka Shing Management Consultancy Ltd. (Ka Shing) under "Service Contract Quotation No. PMB202/8480/2022/A01/A Provision of Environmental Team consultancy for Design and Construction of Kong Nga Po Police Training Facilities" (hereinafter called the "Service Contract"). The report encapsulates the EM&A activities and findings carried out between the 1st and 31st of August 2024.
- E2. On the 23rd of December 2022, a section of the construction site was transferred to the Architectural Services Department (ArchSD), which assumed responsibility for the building's construction. Furthermore, ArchSD has taken on the role of maintenance agent for the Hong Kong Police Force (HKPF) throughout the operational phase.
- E3. In the month covered by this report, the Project of Police Facilities at Kong Nga Po, which operates under Environmental Permit No. FEP-01/510/2016, engaged in the following contractual work: Contract No. SSK509, which encompasses the design and construction of the Kong Nga Po Police Training Facilities.

#### **Environmental Monitoring and Audit Progress**

E4. A summary of the EM&A activities in this reporting month is listed in **Table I** below:

Table I Summary Table for EM&A Activities in the Reporting Month

EM&A Activities	Date	
Noise Monitoring	03, 09, 15, 21, 27 August 2024	
Air Quality Monitoring	03, 09, 15, 21, 27 August 2024	
Environmental Site Inspection	5, 13, 21, 27 August 2024	
Ecological Monitoring	27, 30 August 2024	
Landscape & Visual Inspection	5, 13, 21, 27 August 2024	

#### **Breaches of Action and Limit Levels**

E5. Summary of the environmental exceedances of the reporting month is tabulated in **Table II**.

#### **Construction Noise**

E6. During the reporting month, the planned noise monitoring for construction took place as scheduled, with no recorded incidents of the Action/Limit Levels being exceeded.

#### Air Quality

E7. Throughout the reporting period, all planned air quality monitoring associated with construction was executed, and there were no recorded instances where the Action/Limit Levels were surpassed.

Table II Summary Table for Events Recorded in the Reporting Month

Environmental Monitoring	Parameter	No. of Non-Project related Exceedances		related Construct	cceedance I to the ion Works Contract	Action Taken
		Action Level	Limit Level	Action Level	Limit Level	
Noise	$L_{eq(30 min)}$	0	0	0	0	N/A
Air Quality	1-hr TSP	0	0	0	0	N/A

#### **Ecological Monitoring**

E8. The ecological monitoring slated for the reporting month was conducted according to schedule. Details of the findings from this ecological monitoring for the respective period are available in **Appendix H.** 

#### **Environmental Non-Compliance**

E9. During the reporting month, no environmental compliance violations were documented.

#### **Environmental Complaint**

E10. No environmental complaints were recorded during the reporting period. In the event of any complaints, they would be documented in the Complaint Log found in **Appendix M**.

#### **Notification of Summons and Successful Prosecutions**

E11. Throughout the month covered in this report, there were no instances of receiving notifications regarding summons or confirmations of successful prosecutions.

#### **Reporting Changes**

E12. On the 23rd of December 2022, a section of the construction site was handed over to the Architectural Services Department (ArchSD). ArchSD has taken on the task of overseeing the construction activities for the building. This Monthly Environmental Monitoring and Audit (EM&A) Report offers a summary of the site operations and the status of the environmental safeguards being implemented under the contract with ArchSD.

#### **Future Key Issues**

- E13. The major site activities for the coming three months include:
  - 1. Open cut excavation
  - 2. Removal of soil

- 3. Construction of footings
- 4. Construction of substructure and superstructure
- 5. Construction of footbridge
- 6. Backfilling
- 7. U.U. Lead in and Pipe Duct Connection
- 8. MIC installation
- E14. The aforementioned construction activities could potentially lead to environmental impacts, with the primary concerns centered around construction dust, noise, water quality, and waste management. For detailed information, please refer to **Appendix A** regarding the anticipated major impacts from the construction works and corresponding recommended mitigation measures.

#### 1 INTRODUCTION

- 1.1 The Architectural Services Department (ASD) has commissioned Ka Shing Management Consultancy Ltd. (Ka Shing) as the Environmental Team (ET) to conduct the Environmental Monitoring and Audit (EM&A) activities for the Kong Nga Po Police Facilities Project, as dictated by Environmental Permit No. FEP-01/510/2016.
- 1.2 The main construction activities for the Project began on the 3rd of July, 2020, and the primary location at Kong Nga Po was handed over to the Architectural Services Department (ASD) on the 23rd of December, 2022. The ASD has assumed control over the building construction tasks and will serve as the maintenance representative for the Hong Kong Police Force (HKPF) once the project is operational.

#### Purpose of the report

1.3 This document constitutes the 17th EM&A Report, offering a consolidated overview of the monitoring outcomes for impacts and the audit results from the EM&A program over the reporting interval spanning from the 1st to the 31st August 2024.

#### Structure of the report

- 1.4 The structure of the report is as follows:
  - Section 1: Introduction
  - Section 2: Project Information
  - Section 3: Noise Monitoring
  - Section 4: Air Quality Monitoring
  - Section 5: Landscape and Visual Monitoring
  - Section 6: Ecological Monitoring
  - Section 7: Environmental Site Inspection.
  - Section 8: Environmental Non-conformance
  - Section 9: Future Key Issues
  - Section 10: Conclusions and Recommendations

#### 2 PROJECT INFORMATION

#### **Background**

- 2.1 The Project mainly includes construction and operation of various police facilities. The police facilities include:
  - (i) a helipad;
  - (ii) two firing ranges; and
  - (iii) other facilities, associated infrastructure & utilities, etc.
- 2.2 The Project falls under the category of a Designated Project as defined by the Environmental Impact Assessment Ordinance (EIAO). In October 2016, an Environmental Impact Assessment (EIA) Report (Report No.: AEIAR-201/2016) was approved for the Project in accordance with the EIA Study Brief (No. ESB-276/2014) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The corresponding Environmental Permit (EP no.: FEP-01/510/2016) was issued by the Director of Environmental Protection (DEP).
- 2.3 As per the approved Environmental Monitoring and Audit (EM&A) Manual, a comprehensive air quality and noise monitoring program is recommended during the construction phases of the Project to assess and monitor potential dust and noise nuisances. Prior to the commencement of the Project's construction works, baseline air quality and noise monitoring were conducted by the previous Environmental Team (Wellab Limited) from 14th March, 2020, to 2nd April, 2020, to establish the pre-existing conditions at designated sensitive receivers.
- 2.4 **Figure 1** displays the site layout plan for the Project.

#### **Project Organization**

2.5 Various stakeholders with varying degrees of participation are part of the Project's organizational structure under Environmental Permit number: FEP-01/510/2016, which includes:

Project Proponent – Architectural Services Department (ArchSD)

Contractor- China State JV

Environmental Team (ET) – Ka Shing Management Consultancy Ltd.

Independent Environmental Checker (IEC) – Acuity Sustainability Consulting Limited

2.6 Table 2.1 summarizes the contact information for key personnel associated with Quotation No. PMB202/8480/2022/A01/A and additional contacts linked with the ArchSD Contract No. SSK509.

Table 2.1 Key Contacts of the Project

Party	Role	<b>Contact Person</b>	Phone No.	Fax No.
Architectural Services Department	Project Proponent	Mr. Vincent Kwok	2867 3939	3542 5223

	Site Agent	Mr. Kelvin Chan	6272 8828		
Contractor (China State JV)	Environmental	Ms. Marian Kong	6174 9735	2866 6325	
	Officer	Mr. LuLu Mar	5998 8852		
Ka Shing Management Consultancy Ltd.	ETL	Mr. W.H. Lee	2618 2166	2120 7752	
Acuity Sustainability Consulting Limited	IEC	Ir. Y.H. Law	2698 6833	2698 9383	

#### **Summary of Construction Works Undertaken During Reporting Month**

- 2.7 Significant site activities conducted on-site during the reporting month comprised:
  - 1. Open cut excavation
  - 2. Removal of soil
  - 3. Construction of footings
  - 4. Construction of substructure and superstructure
  - 5. Construction of footbridge
  - 6. Backfilling
  - 7. U.U. Lead in and Pipe Duct Connection

#### **Construction Programme**

- 2.8 **Appendix A** contains a version of the Contractors' construction schedules. The primary site activities planned by the Contractor for the upcoming three months have been examined. In **Appendix O**, the expected environmental impacts' potential severity and the deployment of equipment have been evaluated. This appendix additionally provides the Contractor with recommendations and insights on alternative approaches aimed at raising environmental consciousness, refining practices on the construction site, and fostering environmental improvements.
- 2.9 **Table 2.2** presents a consolidated overview of the pertinent environmental protection permits, licenses, and/or notifications associated with this Project.

Table 2.2 Status of Environmental Licences, Notifications and Permits

Dawnia / Licanas No	Valid Period		Status	
Permit / Licence No.	From To			
Further Environmental Permit (FEP)				
FEP-01/510/2016	N/A	N/A	Valid	
Construction Noise Permit (CNP)				
GW-RN0839-24	30-07-2024	29-10-2024	Valid	
Notification pursuant to Air Pollution Control (Construction Dust) Regulation				
EPD Ref no.: 487864	N/A	N/A	N/A	

Billing Account for Construction Waste Disposal				
Account No. 7046289 18-01-2023 N/A Valid			Valid	
Registration of Chemical Waste Producer				
WPN5213-641-C4770-01	18-01-2023	N/A	Valid	
Effluent Discharge Licence under Water Pollution Control Ordinance				
WT00043663-2023	21-04-2023	30-04-2028	Valid	

#### **Summary of EM&A Requirement**

- 2.10 The Environmental Monitoring and Audit (EM&A) program includes the monitoring of construction noise, air quality, ecological conditions, and regular environmental site audits. The specific requirements for the EM&A program are outlined in the following sections:
  - Environmental requirements in contract documents;
  - Event / Action Plans;
  - Environmental mitigation measures, as recommended in the Project EIA study final report;
  - All monitoring parameters; and
  - Action and Limit levels for all environmental parameters.

#### **Status of Compliance with Environmental Permits Conditions**

2.11 **Table 2.3** provides a summary of the adherence to Environmental Permit (EP) No. FEP-01/510/2016 and the necessary submissions connected to this Project as stipulated by the EP.

Table 2.3 Summary Table for Status of Compliance / Required Submission under FEP No. FEP-01/510/2016

FEP Conditions	Submission	Submission Date	Approval Status
1.12	Commencement date of construction of the Project	30/3/2023	*
2.7	Proposal on the Reporting Mechanism and Curriculum Vitae of the IEC	20/3/2023	*
The date of setting up the  Community Liaison Hotline and the contact details  Management Organization of Main Construction  Companies, at least an organization chart, names of responsible persons and their contact details  Construction Works Schedule and Location Plans  Layout plan for permeable pavings		27/2/2023	*
		10/3/2023	*
		10/3/2023	*
		29/3/2023 Supplementary information submitted on 23/3/2024	For approval

Provision of Environmental Team consultancy for Design and Construction of Kong Nga Po Police Training Facilities (Programme no. 279LP) Monthly EM&A Report – August 2024

		menung Emeerine	
2.14	Landscape and visual mitigation plan	26/6/2023	For approval
2.16	Plan for perimeter walls/ boundary wall sat project site and sidewalls of firing range	1 month before fence wall works	For approval
2.19	Submission of Helicopter Flight Plan	1 month before commencement of operation of Helipad	Notification
3.3	Baseline Air Quality and Noise Monitoring Report	30/3/2023	Deposit
4.2	Internet address of a dedicated web site	13/4/2023	*

Remarks: \* Approval not required in FEP-01/510/2016

#### 3 NOISE MONITORING

#### **Monitoring Requirements**

3.1 Following the EM&A Manual, monitoring of construction noise was performed by measuring the A-weighted equivalent continuous sound pressure level (Leq) to track noise generated by construction operations. Each monitoring station is scheduled for weekly noise assessments, with one set of readings to be taken from 0700 to 1900 hours on typical weekdays. The predefined Action/Limit Levels for the environmental monitoring activities are presented in **Appendix B**.

#### **Monitoring Location**

3.2 As per Section 3.2.3 of the EM&A Manual, impact noise monitoring took place at fourteen specified noise monitoring stations. Following the guidelines of the Project's Environmental Impact Assessment (EIA) report, noise monitoring stations situated within a 300-meter radius of the Project's boundary were taken into account. Consequently, six noise monitoring stations identified as relevant monitoring locations are depicted in Figure 3. The specific locations of these noise monitoring stations are detailed in **Table 3.1**.

Table 3.1 Location of Noise Monitoring Stations

Monitoring Station	Location of Measurement
NM9	Village House, Kong Nga Po
NM10	Village House, Kong Nga Po
NM11	Village House, Kong Nga Po
NM12	Village House, Kong Nga Po
NM13	Village House, Kong Nga Po
NM14	Village House, near Man Kam To Road

#### **Monitoring Equipment**

3.3 Impact noise monitoring was carried out using Integrating Sound Level Meters. These meters, classified as Type 1, are capable of providing continuous readings of noise levels, including the equivalent continuous sound pressure level (Leq) and percentile sound pressure level (Lx), and they conform to the specifications of International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). The noise monitoring equipment utilized is summarized in **Table 3.2**. The calibration certificates for these devices can be found in **Appendix C**.

Table 3.2 Noise Monitoring Equipment

Equipment	Model	Quantity
Sound Level Meter	BSWA 308	1
Sound Calibrator	ST120	1

#### Monitoring Parameters, Frequency and Duration

3.4 **Table 3.3** encapsulates the variables monitored, the frequency of monitoring, and the total time span of the noise monitoring activities. The schedule for noise monitoring can be located in **Appendix D.** 

Table 3.3 Noise Monitoring Parameters, Duration and Frequency

Monitoring Stations	Parameter	Duration	Frequency	Measurement
NM9	L10(30 min.) dB(A) <sup>[2]</sup>			Free field <sup>[1]</sup>
NM10	dB(A) <sup>r</sup>			Free field <sup>[1]</sup>
NM11	L90(30 min.)			Façade
NM12	$dB(A)^{[2]}$	0700-1900 hrs on	Once per	Façade
NM13	Leq(30 min.) dB(A) <sup>[2]</sup>	normal weekdays	week	Free field <sup>[1]</sup>
NM14	dB(A) <sup>[2]</sup> (as six consecutive Leq, 5min readings)			Free field <sup>[1]</sup>

#### Remarks:

L10 is the level exceeded for 10% of the time. For 10% of the time, the sound or noise has a sound pressure level above L10.

L90 is the level exceeded for 90% of the time. For 90% of the time, the noise level is above this level.

#### Monitoring Methodology and QA/QC Procedures

- 3.5 The procedures for noise monitoring were conducted in this manner:
  - The sound level meter was mounted on a tripod, positioned 1 meter away from the outside of the noise-sensitive facade and at a height of 1.2 meters above ground level;
  - To achieve free field measurement conditions, the meter was placed at a distance from any reflective surfaces, and the measured noise levels were then corrected by adding +3 dB(A);
  - The battery's condition was examined to guarantee the proper operation of the meter;
  - The settings for parameters like frequency weighting, time weighting, and measurement duration were established as detailed below:

-frequency weighting: A

-time weighting: Fast

-time measurement: Leg(30 min.) dB(A)

- Noise levels were measured as six consecutive Leq, 5-minute readings during the hours when restrictions did not apply (specifically, from 0700 to 1900 hrs on normal weekdays).
- Calibration of the meter was performed before and after each noise measurement session using a Calibrator set to 94.0 dB at 1000 Hz. Should there be a discrepancy greater than 1.0 dB in calibration levels pre- and post-measurement, the data would be deemed invalid. A

<sup>[1]:</sup> Correction of +3dB (A) for Free-field Measurement.

<sup>[2]:</sup> A-weighted equivalent continuous sound pressure level (Leq). It is the constant noise level which, under a given situation and time period, contains the same acoustic energy as the actual time-varying noise level.

repeat measurement would then be necessary following recalibration or repair of the equipment.

- Throughout the monitoring period, parameters such as Leq, L90, and L10 were documented. Observations regarding site conditions and noise origins were also noted on a standard recording form.
- Noise measurements were temporarily halted during instances of significant intrusive noise (for example, barking dogs or helicopter sounds), where feasible. An observation record for the measurement period was to be provided.
- Noise monitoring was suspended in conditions of fog, rain, or when wind speeds were consistently above 5 m/s, or during gusts surpassing 10 m/s. Wind speeds were verified using a portable anemometer capable of measuring speed in meters per second (m/s).

#### **Maintenance and Calibration**

- 3.6 Every three months, the microphone head of the sound level meter and the calibrator was gently wiped clean using a soft fabric.
- 3.7 Annually the sound level meter and calibrator underwent inspection and calibration.
- 3.8 Before and after conducting each noise measurement, the precision of the sound level meter must be verified with an acoustic calibrator that produces a set sound pressure level at a specific frequency. Only when the pre- and post-measurement calibration levels are within a 1.0 dB range of each other will the measurements be considered valid.

#### **Results and Observations**

3.9 **Table 3.4** provides a summary of the noise monitoring outcomes. For an in-depth account and visual depiction of the noise monitoring, refer to **Appendix F**. A summary of the meteorological data for the reporting period is compiled in **Appendix G**.

Table 3.4 Summary Table of Noise Monitoring Results during the Reporting Month

Manitanina Station	Average		Baseline Level	Limit Level
Monitoring Station	Leq (30 min) dB(A)	Leq (30 min) dB(A)	dB(A)	dB(A)
NM9 <sup>[1]</sup>	52.9	47.6 – 67.9	55.9	
NM10 <sup>[1]</sup>	53.0	48.7 - 73.8	52.8	
NM11	51.9	48.0 – 63.9	46.4	75
NM12	58.0	50.1 - 70.1	54.7	73
NM13 <sup>[1]</sup>	52.2	47.2 – 59.9	61.3	
NM14 <sup>[1]</sup>	57.8	47.6 – 73.0	59.6	

Remarks: [1]: Correction of +3dB (A) for Free-field Measurement.

- 3.10 Noise monitoring related to construction activities took place according to the planned schedule for the month reported. There were no instances where the Action/Limit Levels were surpassed. A summary of exceedance records for the reporting month can be found in Appendix J.
- 3.11 Based on observations made in the field, the primary sources of noise detected at the allocated noise monitoring stations during the reporting month are as outlined below:

Table 3.5 Observation at Noise Monitoring Stations

Monitoring Station	Major Noise Source	
NM9	Loading & unloading, Road traffic, Excavation works	
NM10	Loading & unloading, Road traffic, Excavation works	
NM11	Road traffic	
NM12	Loading & unloading, Road traffic	
NM13	Loading & unloading, Road traffic	
NM14	Dog barking, Road traffic	

#### **Event and Action Plan**

3.12 If any non-compliance with the criteria related to the project arises, measures will be taken following the procedures outlined in the Event Action Plan provided in **Appendix I.** 

#### 4 AIR QUALITY MONITORING

#### **Monitoring Requirements**

- 4.1 As per the EM&A Manual, 1-hour Total Suspended Particulates (TSP) monitoring was carried out to keep track of the air quality associated with the Works Contracts. The predetermined Action/Limit Levels for the air quality monitoring activities are detailed in **Appendix B**.
- 4.2 Monitoring for 1-hour Total Suspended Particulates (TSP) impacts was performed at a minimum of three times within each six-day period at a designated air quality monitoring station.

#### **Monitoring Location**

4.3 In line with Section 2.2.5 of the EM&A Manual, impact air quality monitoring took place at two specified monitoring stations for the Project, as depicted in Figure 2. The positions of the air quality monitoring stations are detailed in **Table 4.1**.

Table 4.1 Location for Air Quality Monitoring Stations

Monitoring Station	Location of Measurement
AM1	Village House, Kong Nga Po
AM2	Village House, Kong Nga Po

#### **Monitoring Equipment**

- 4.4 Due to the denial by local villagers to set up a High-Volume Sampler (HVS) for 1-hour Total Suspended Particulates (TSP) monitoring at the chosen locations and the inability to secure an electricity supply for the HVS, direct-reading dust meters were utilized instead to conduct the 1-hour TSP monitoring. Direct-reading dust meters are widely accepted instruments for measuring 1-hour TSP levels and have been used in the same infrastructure project. The issue to use direct-reading dust meters was presented to the Independent Environmental Checker (IEC). The application of the direct-reading dust meter allows for immediate and straightforward results, facilitating timely EM&A reporting and the execution of the event and action plan. To ensure the validity and accuracy of the readings obtained by the direct-reading method, the HVS performed 1-hour sampling on a bi-monthly schedule.
- 4.5 **Table 4.2** provides a summary of the apparatus employed in the impact air quality monitoring program. Copies of the calibration certificates for the equipment can be found in **Appendix C**.

Table 4.2 Air Quality Monitoring Equipment

Equipment	Model and Serial No.	Quantity	The valid period is until
Dust Monitor	AEROCET-831 / E11304	1	21 August 2024
Dust Monitor	AEROCET-831 / D12641	1	19 October 2024

- 4.6 Weather data was sourced from the "Hong Kong Observatory General Weather Conditions during the Monitoring Period (August 2024)" detailed in **Appendix G**, which was used as a substitute approach to acquire representative wind data.
- 4.7 During the monitoring days, the field staff also documented the prevailing weather conditions, such as whether it was sunny, cloudy, or rainy.

#### **Monitoring Parameters, Frequency and Duration**

4.8 **Table 4.3** encapsulates the monitoring variables and the regularity of impact dust assessments conducted throughout the Works Contracts operations. The schedule for air quality observation for the month in question is presented in **Appendix D**.

Table 4.3 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hr TSP	Three times/ 6 days

#### Monitoring Methodology and QA/QC Procedure

#### 1-hour TSP Air Quality Monitoring

#### Instrumentation

- 4.9 The air quality monitoring utilized a direct reading dust meter, as indicated in **Table 4.2**.
- 4.10 The procedures for operating the dust meter adhere to the guidelines set forth in the Manufacturer's Instruction Manual, as described below:
  - -The 1-hour dust meter is placed at least 1.3 meters above ground.
  - -Press and hold the Power key momentarily to power on the unit and make sure that the battery level was not flash or in low level.
  - -Allow the instrument to stand for about 3 second to display the Sample Screen minutes.
  - -Press the START / STOP key to run the internal vacuum pump for 1 minute and ready to use.
  - -Use the select dial to select the PM range and press the START / STOP key to start a measurement.
  - -Finally, push the START/STOP key to stop the measuring after 3-hour sampling.
  - -Information such as sampling date, time, value and site condition were recorded during the monitoring period.
  - -All data were recorded in the data logger for further data processing.

#### Maintenance/Calibration

- 4.11 The dust meter required the following maintenance and calibration:
  - The dust meter must be checked and calibrated against a High Volume Sampler (HVS) to validate the precision and accuracy of the readings obtained through the direct reading method. This calibration should be performed bi-monthly during all phases of the air quality monitoring.
  - The correlation between the dust meter and HVS in measuring TSP was established by directly comparing the mass of dust particles collected on a filter paper by the HVS against the dust meter's reading. For accurate calibration, both the dust meter and the HVS should be turned on and off at the same location and at the same time.
  - The correlation coefficient was verified to confirm the relationship between the readings from the dust meter and the HVS. This correlation factor was ascertained by comparing the outcomes from both the HVS and the dust meter.
  - Prior to the initiation of dust monitoring, a check must be conducted to verify that all equipment is operational and has the necessary power supply. A zero count test was performed before and after each monitoring session to ensure accuracy.

#### **Results and Observations**

4.12 The outcomes of the 1-hour TSP monitoring are condensed in **Table 4.4**. For a comprehensive view, detailed results and graphical representations of the 1-hour TSP monitoring data can be found in **Appendix E**.

Table 4.4 Summary Table of 1-hour TSP Monitoring Results during the Reporting Month

Monitoring Station	Concentration (µg/m³)		Action Level, µg/m³	Limit Level, μg/m³
	Average	Range	μg/m	
AM1	45	19 – 75	308	500
AM2	39	24 – 63	311	500

- 4.13 The 1-hour TSP monitoring took place according to the planned timetable for the reporting month, and there were no instances of exceeding the established Action/Limit Levels.
- 4.14 Based on field observations, the primary sources of dust at the specified air quality monitoring stations during the reporting month are listed in **Table 4.5**.

Table 4.5 Observation at Dust Monitoring Stations

<b>Monitoring Station</b>	Major Dust Source
AM1	Equipment operation and movement / road traffic, exposed site area, site vehicle

Provision of Environmental Team consultancy for Design and Construction of Kong Nga Po Police Training Facilities (Programme no. 279LP) Monthly EM&A Report – August 2024

AM2	Road traffic, exposed site area, site vehicle / equipment operation and movement, vehicle / equipment operation and movement at warehouse nearby
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#### **Event and Action Plan**

4.15 In the event of a project-related violation of the criteria, measures will be taken as specified by the Event Action Plan detailed in **Appendix I**.

#### 5 LANDSCAPE AND VISUAL MONITORING

#### **Monitoring Requirements**

- 5.1 The EIA Report recommends implementing strategies to mitigate impacts on landscape and visual resources throughout both the construction and operational phases of the Project.
- 5.2 The execution and upkeep of compensatory planting for landscaping are critical components of this process and must be monitored to confirm their complete fulfillment. It is essential to promptly address any potential clashes between the proposed landscaping efforts and other Project tasks or operational needs to ensure that the mitigation measures' objectives are not compromised. Furthermore, the enforcement of the mitigation measures advised by the EIA will be tracked continuously through the site audit program for the construction phase.
- 5.3 The Environmental Team (ET) carried out a fortnightly review of the execution of measures aimed at mitigating landscape and visual impacts as part of the weekly site audits. The findings and observations from these audit sessions are encapsulated in **Table 7.1**, while the status of implementation can be found detailed in **Appendix K**.

#### 6 ECOLOGICAL MONITORING

#### **Monitoring of Flora Species of Conservation Interest**

- In line with Section 8.3.2 of the EM&A Manual, a temporary protective barrier must be installed around the plant species of conservation significance identified in the detailed vegetation survey throughout the construction phase. This barrier should be well-maintained and regularly checked to ensure its effectiveness. Monthly checks of each plant species of conservation interest, as pinpointed in the detailed vegetation survey, are required during the construction phase to ensure that these species remain unaffected by the project's construction activities.
- 6.2 The monitoring aims to oversee the prompt execution of suitable environmental management practices and the application of mitigation measures concerning the preserved and relocated specimens of flora species of conservation interest. The correct setup and upkeep of the temporary protective fence surrounding these specimens were examined to assess its efficacy. The protective measures outlined in the approved transplantation proposal's implementation schedule were supervised.
- 6.3 As per the sanctioned detailed vegetation survey report and transplantation proposal, it was determined that 71 *Brainea insignis* specimens, 41 *Spiranthes sinensis* specimens, and 3 *Aquilaria sinensis* specimens should be relocated to the designated receiving site. Additionally, it was decided to preserve in situ 51 *Keteleeria fortunei* specimens, along with 26 small seedlings of *Keteleeria fortunei* and 7 small seedlings of *Aquilaria sinensis*, in the vicinity of Kong Nga Po Road near the Police Dog Unit and the Force Search Unit Training School.

#### Post-Transplantation Monitoring and Maintenance Programme

- In line with the accepted transplantation proposal, the Contractor is mandated to carry out post-transplantation monitoring weekly for the first three months, and then monthly for the remainder of the 12-month establishment phase as well as the subsequent post-establishment phase, continuing until the construction phase of the Project concludes. This routine monitoring is critical for promptly identifying the growth condition of the transplanted species, any signs of construction work within or in the vicinity of the receptor site, and any changes in the environmental conditions of the receptor site.
- 6.5 For the initial year of acclimatization, it was advised to carry out maintenance activities to promote the robust growth of the transplanted species. Considering the state of the transplanted organisms following the 12-month establishment period, it was advised that maintenance activities continue through the Post-establishment Period until the completion

of the Construction Phase. It was recommended to water the transplants daily for the first three months following the move, as well as throughout periods of drought, to maintain soil moisture. Additional maintenance tasks, such as mulching and weeding, should be performed as necessary.

#### **Results and Observations**

- During the reporting month, the Contractor carried out monthly evaluations of the flora species of conservation interest on the 30th of August 2024. The enforcement of the protective measures detailed in the approved transplantation proposal was reviewed, along with the maintenance of the temporary protective fencing. **Appendix H** contains the photographic documentation and checklists from the monthly assessments. The health of the transplanted and retained species was generally observed to be average to poor. The Contractor was urged to keep a vigilant eye on the transplanted species and to implement the protective measures as specified in the approved transplantation proposal to safeguard these species. Furthermore, the Contractor was given the following directives:
  - 1) To provide new identification tags for any *Brainea insignis* that were missing them;
  - 2) To substitute any plant labels at the receptor site that had become illegible due to fading;
  - 3) To refer to the soil improvement guidelines published by the Greening, Landscape and Tree Management Section (GLTMS) of the Development Bureau (2022) for application in the monitoring and upkeep of the transplanted plant species;
  - 4) To set up shade nets;
  - 5) To ensure the soil remains moist by adhering to the necessary daily watering schedule.

#### Transplanted Brainea insignis and Spiranthes sinensis

6.7 From May 21st to 27th, 2020, 71 *Brainea insignis* specimens and 41 *Spiranthes sinensis* specimens were relocated to the receptor site. The detailed account of the transplantation process was compiled in a Transplantation Report and forwarded to ET(Wellab), IEC(Acuity), and the Supervisor (AECOM) for their examination and documentation. Monitoring after transplantation took place weekly for the initial three months (from June to August 2020) and then monthly throughout the subsequent 12-month establishment period, as well as the post-establishment phase, culminating with the conclusion of the construction phase of the Project. The Contractor was responsible for tracking the health of the transplanted species and carried out maintenance measures such as watering, mulching, and weeding during the first year to nurture the transplanted species' healthy development. Monitoring of the transplanted *Brainea insignis* and *Spiranthes sinensis* took place on August 30th, 2024, within the reporting period, with the findings documented in **Appendix** H. Particular attention was given to the transplanted *Brainea insignis* specimens that were impacted by a bushfire on February 2nd, 2021, with their progress detailed in the post-

transplantation monitoring records. The health of the preserved species was noted to be generally fair. The Contractor was advised to maintain vigilant monitoring of these species and to enforce the stipulated protective measures to ensure their continued preservation.

6.8 During the monthly checks, it was observed that there were no construction operations or storage of equipment taking place within the receptor site. The temporary protective barrier had been correctly installed and was being well-maintained to safeguard the transplanted species.

#### **Precautionary Measure for Butterfly Species of Conservation Interest**

- As stipulated by FEP Condition 2.17, to reduce the impact on butterfly species of conservation concern, efforts shall be made to improve the new grassland habitats within the Project site. This enhancement shall be achieved by cultivating suitable plant species that serve as the larval food source for butterflies of conservation interest, like the Small Three-Ring, thereby supporting the well-being of these species.
- 6.10 The restoration of grassland zones within the Project must be completed prior to the initiation of the Project's operational phase. Information regarding the plant species to be used as larval food plants for butterflies, along with the design and execution details, will be subsequently provided under the building works contract of ArchSD.

#### **Precautionary Measures to Minimize Indirect Disturbance on Ecology**

6.11 As outlined in Section 9.7.3 of the EIA Report, implementing mitigation strategies for air, noise, water, waste, and landscaping can serve as preventative actions to avert and lessen any secondary effects of disturbance or pollution resulting from construction activities on the surrounding ecology and habitats outside the site. The Environmental Team (ET) conducted weekly site audits to oversee the prompt adoption of appropriate environmental management practices and the execution of mitigation measures at the Project site. The findings from these audits are consolidated in Section 7.3.

#### 7 ENVIRONMENTAL SITE INSPECTION

#### **Site Audits**

- 7.1 The Environmental Team (ET) conducted site audits weekly to oversee the prompt adoption of appropriate environmental management practices and the execution of mitigation measures at the Contract site.
- 7.2 The Environmental Team (ET), along with representatives from the Client and the Contractor, conducted site audits on 5, 13, 21, 27 August 2024 of the reported month in 2024.
- 7.3 In the site inspections conducted over the reporting period, there were no particular environmental concerns noted. It should be recognized that these observations pertain solely to the moments of inspection. The findings and advice from these audits are compiled in **Table 7.1**. The absence of identified environmental issues during the joint site inspections does not exempt the Contractor from their obligation to adhere strictly to all legal requirements, the Particular Specifications, and the Environmental Monitoring and Audit (EM&A) Manual.

Table 7.1 Observations of Weekly site Inspection and advice

Parameters	Date	Observations	Advice
Water Quality Impact	21-8-2024	The labelling (particulars on the label) and storage of chemicals should be in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and maintained at all times by the Contractor	Particulars on the label are shown on the chemical.
Water Quality Impact	21-8-2024		The symbol of the chemicals is clearly visible
Others	21-8-2024	The absence of a drip tray may elevate the risk of rainwater or cleaning activities carrying spilled chemicals into the surrounding soil. This contamination not only has the potential to hinder plant growth but also poses a probable threat to the local ecosystem. These chemical substances can disrupt the delicate balance, harming or even proving fatal to beneficial microorganisms	The drip tray should be used.

#### **Implementation Status of Environmental Mitigation Measures**

7.4 In accordance with the EIA Report and the Project's EM&A Manual, the outlined mitigation measures are recommended to be implemented throughout the construction phase. An

overview of the Environmental Mitigation Implementation Schedule (EMIS) is available in **Appendix K.** 

#### Solid and Liquid Waste Management Status

- 7.5 Pursuant to the EM&A Manual, waste management practices were reviewed in the weekly site audits to assess compliance with the Project's Waste Management Plan (WMP) and pertinent legal and contractual obligations. The auditing process encompassed the examination of waste handling, storage, transport, and disposal methods.
- The Contractor has appointed Environmental Officers on-site to manage environmental aspects, implement pollution control strategies, maintain proper site conduct, and educate workers on waste management. Efforts to reduce waste production include actively using Construction and Demolition (C&D) materials. Excavated materials have been sorted and screened on-site to salvage any recyclables. Non-reactive C&D materials were utilized on-site for backfill and to construct the haul road surface. Furthermore, inert materials from excavation activities were repurposed as fill in other local projects. Excess inert C&D materials were sent to the Government's public fill reception facilities (PFRFs) for use in other projects. To oversee the disposal of inert and non-inert C&D materials and prevent illegal dumping, a system is in place where all materials are weighed by a weighbridge before leaving the site, and the Trip Ticket System is rigorously enforced.
- 7.7 Contractor is encouraged to reduce waste production by recycling or reusing materials. It is imperative that all the mitigation strategies outlined in the EM&A Manual and the waste management plans be thoroughly executed. A summary of the progress in implementing waste management and reduction strategies is provided in **Appendix K**.
- 7.8 This Project produces inert Construction and Demolition (C&D) materials as well as non-inert C&D materials. The non-inert variety consists of general refuse and other waste materials that cannot be repurposed or recycled, necessitating disposal at assigned landfill locations. Data detailing the volume of waste resulting from the Project's construction activities over the reporting period can be found in **Appendix L**.

#### 8 ENVIRONMENTAL NON-CONFORMANCE

#### **Summary of Exceedances**

- 8.1 During the reporting month, there were no instances where the air quality exceeded the established Action and Limit Levels.
- 8.2 There were no instances of construction noise surpassing the designated Action and Limit Levels in the reporting period.
- 8.3 If the monitoring data from any specific stations reveal that environmental parameters have surpassed the Action/Limit Levels, then the procedures outlined in the Event and Action Plans in **Appendix I** should be executed. A summary of any exceedance records for the reporting month can be found in **Appendix J**.

#### **Summary of Environmental Non-Compliance**

8.4 There were no records of environmental compliance breaches during the reported month.

#### **Summary of Environmental Complaint**

8.5 In the month under review, no complaints were registered. A log of all complaints accumulated since the start of the Project is compiled in **Appendix M**.

#### Summary of Environmental Summon and Successful Prosecution

8.6 Since the beginning of the Project, there have been no instances of successful environmental prosecution or receipt of summons. A comprehensive record of all environmental summonses and successful prosecutions since the Project's inception is documented in **Appendix N**.

#### 9 FUTURE KEY ISSUES

#### **Key Issues in the Coming Three Months**

- 9.1 **Appendix A** contains the provisional construction schedules for the Project. Over the next three months, the principal construction tasks to be carried out will include:
  - 1. Open cut excavation
  - 2. Removal of soil
  - 3. Construction of footings
  - 4. Construction of substructure and superstructure
  - 5. Construction of footbridge
  - 6. Backfilling
  - 7. U.U. Lead in and Pipe Duct Connection
  - 8. MIC installation
- 9.2 Referring to the site layout plan found in **Appendix A**, which details the expected construction activities for the next three months, the primary environmental concerns related to these activities are likely to be construction dust, noise, water quality, waste management, landscape and visual aesthetics, and ecological impacts. The anticipated environmental effects have been factored into the mitigation strategies planned for the upcoming months.
- 9.3 The Contractor has advised mitigation measures for the next three months, which the Environmental Team (ET), Independent Environmental Checker (IEC), and the Client's Representative have reviewed through email correspondence during site audits. The Proactive Environmental Protection Proforma, which outlines the key site activities, potential environmental impacts, and advised mitigation strategies, has been examined and verified by the IEC and is displayed in **Appendix A**.
- During construction and in periods of dry weather, dust can arise from work activities and uncovered site areas. To mitigate dust emissions that could affect nearby villages, the Contractor is advised to diligently apply air quality control measures as outlined in the layout plan in **Appendix A**, to the greatest extent possible. Moreover, the Contractor is reminded to adhere to the Project Implementation Schedule detailed in the approved EIA report/EM&A Manual, implementing suitable dust suppression tactics to curb emissions from intensive construction tasks such as ground excavation and earth moving. This includes managing all active work areas, bare site surfaces, and unpaved roads, especially under dry conditions, by covering 80% of stockpiled materials with impervious coverings and by moistening dusty substances with water just before loading and transfer activities. This ensures materials remain damp during handling in stockpile regions. Additionally, the

Contractor must adhere to the prescribed dust control methods under the Air Pollution Control (Construction Dust) Regulation to prevent negative dust impacts from the Project's construction activities.

- 9.5 Furthermore, construction noise represents a significant environmental concern during the Project's development. It is important to implement noise reduction strategies, such as utilizing quiet machinery and installing noise barriers where relevant. The Contractor has been prompted to regularly inspect and upkeep the sound-dampening materials on noisy sections of plant and machinery, ensuring there are no openings in the noise barriers. They should also actively recognize any potential construction noise impacts to Noise Sensitive Receivers (NSRs) and introduce adequate mitigation measures when required. Additionally, residents in the nearby Kong Nga Po village should be informed in advance about any potentially noisy activities at the work site.
- 9.6 The Contractor is advised to uphold measures that protect water quality throughout the construction process. This includes constructing barriers such as dikes or embankments to prevent flooding around the perimeters of areas where soil is being moved or excavated. Provision should be made for temporary channels to direct runoff effectively into a designated watercourse via a trap designed to capture sediment from the site. These sediment/silt traps should also be integrated into the permanent drainage systems to improve the settling of particulates. It is essential to utilize effective silt removal systems to ensure that the effluent treated by the wastewater treatment plant complies with the standards specified in the WPCO licenses. The Wastewater Discharge Layout Plan, as shown in **Appendix Q** and provided by the Contractor, outlines the specific pathways through which wastewater is to be conveyed from its source to a treatment facility or point of discharge

#### Monitoring Schedule for the Next Month

9.7 **Appendix D** displays the provisional schedule for environmental monitoring activities planned for the upcoming month.

#### 10 CONCLUSIONS AND RECOMMENDATIONS

#### **Conclusions**

- 10.1 This Monthly EM&A Report details the environmental monitoring and audit (EM&A) activities conducted in August 2024, following the guidelines set out in the EM&A Manual.
- 10.2 During the month in question, air quality monitoring did not register any instances of surpassing the Action/Limit Levels.
- 10.3 No instances of construction noise exceeding the established Action/Limit Levels were documented in the reporting month's monitoring records.
- 10.4 Site inspections focusing on environmental aspects took place on the 5, 13, 21, 27 August 2024. Additionally, monitoring of landscape and visual impacts was performed on the 5, 13, 21, 27 August 2024, and ecological monitoring was conducted on the 27 August 2024 by ET within the reporting month. The Contractor also conducted monitoring on 30 August 2024. There were no records of environmental non-compliance for the reporting month. It should be noted that the absence of any particular environmental issues during the joint site inspections does not exempt the Contractor from their obligation to adhere fully to all legal requirements, the specifications outlined in the contract, and the procedures in the EM&A Manual.
- 10.5 During the reporting month, there were no complaints lodged, nor were there any notices of summons or records of successful legal actions received.
- 10.6 The Environmental Team (ET) will persist in overseeing the Environmental Monitoring and Audit (EM&A) program. All environmental obligations are fulfilled, and the necessary mitigation measures are properly executed.

#### Recommendations

10.7 Based on the environmental audits conducted during the reporting month, the subsequent advice was put forward:

Air Quality Impact

- To enhance the dust suppression measures including watering for the dust generation works, exposed site area and haul road;
- To minimize the indirect impacts on air quality resulting from the operation of machineries on the construction site, one of the measures to be adopted is the use of biodiesel B100; and

• To regular check the valid NRMM labels are properly displayed on the regulated machines and non-road vehicles

#### Construction Noise

- To refer to the ISO 12001:1996 or other comprehensive practices and subsequently develop
  a thorough inspection and maintenance protocol for the plant and equipment, maintaining a
  focus on Noise Control; and
- To maintain temporary noise barriers for operations of noisy equipment near the noise sensitive receivers, if necessary.

#### Water Impact

- To maintain the cover for open stockpile of and exposed slope;
- To keep reviewing and updating temporary drainage system;
- To maintain the earth bunds or sand bag barriers on site to direct stormwater to silt removal facilities; and
- To divert the muddy water at the retention pond to the wetsep for treatment before discharging out.

#### Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site; and
- To avoid improper handling, storage and dispose of oil drums or chemical containers on site.

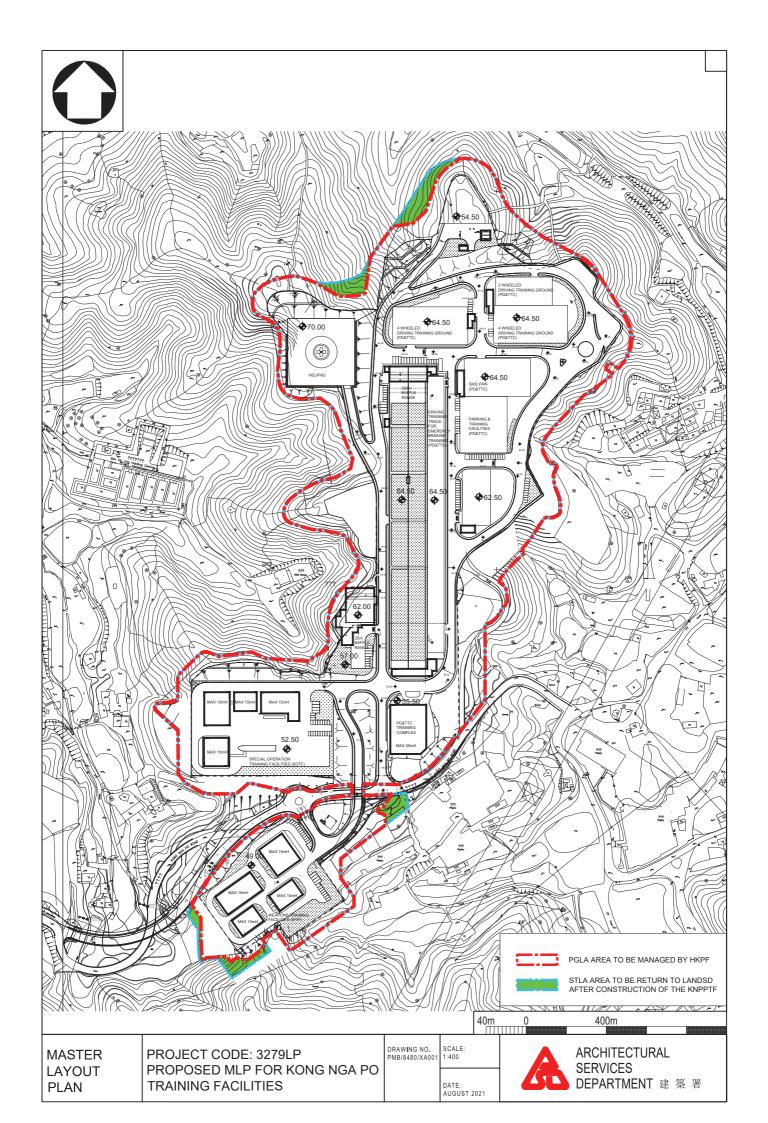
#### **Ecology**

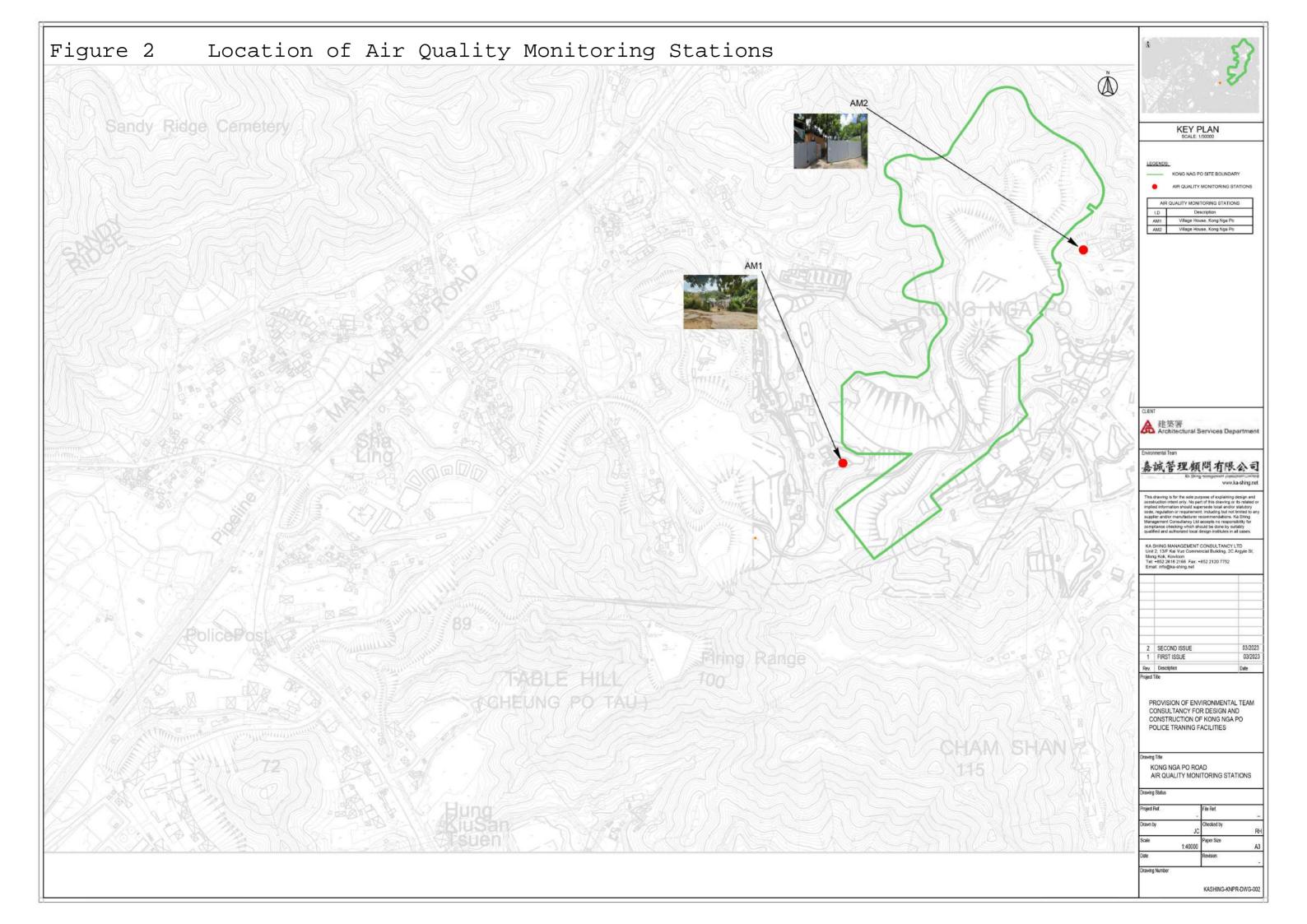
- To maintain soil moisture, daily watering is required;
- To install a shaded net;
- To refer to the Guidelines on Soil Improvement issued by the Greening, Landscape and Tree Management Section (GLTMS) of the Development Bureau (2022) for the effective monitoring and maintenance of transplanted flora species; and
- The wild plants that are growing in undesirable areas should be removed, as they compete with the cultivated flora species of conservation interest.

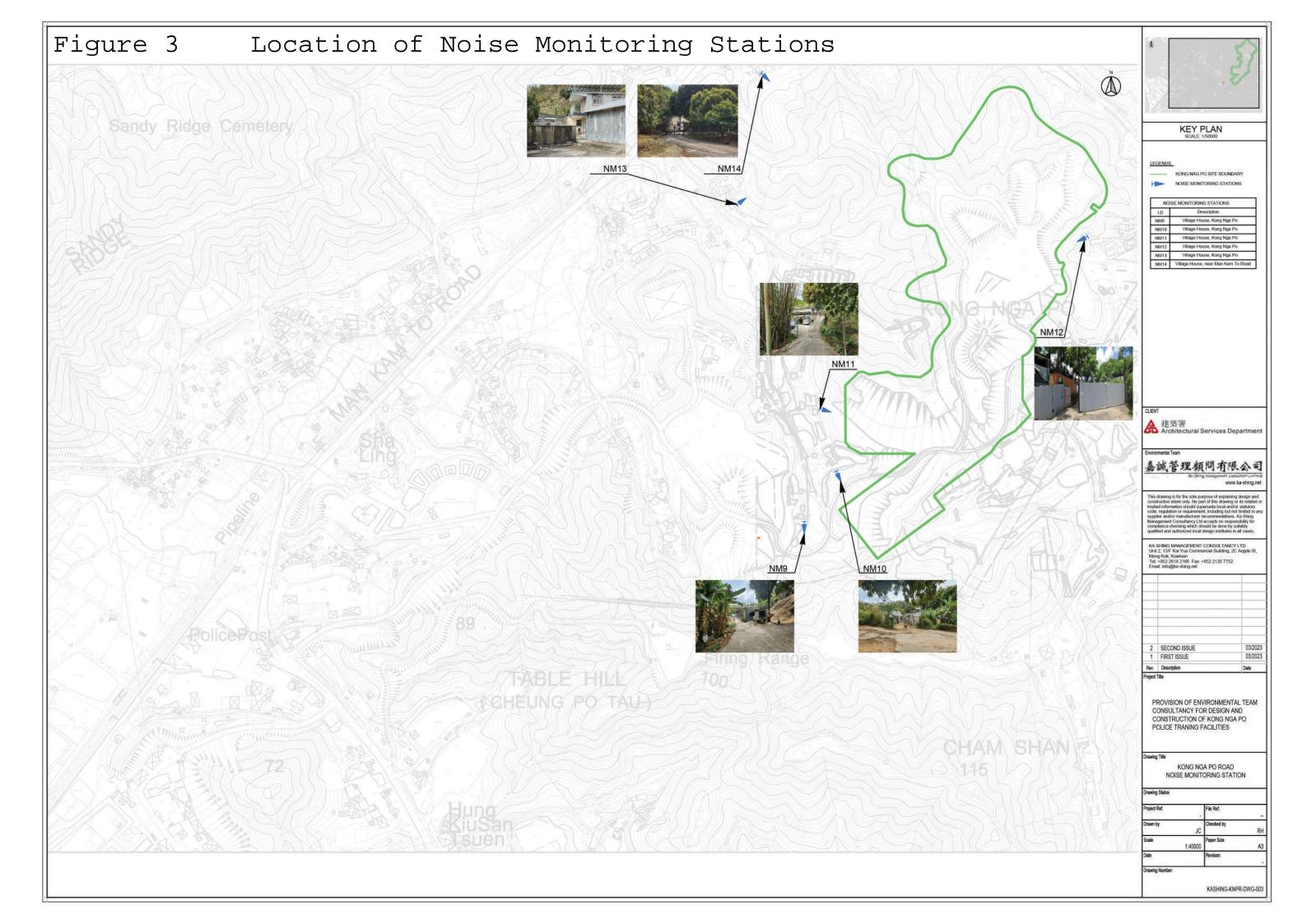
#### Landscape and Visual

- To remove the construction materials within the tree protection zone; and
- To keep the tree protection zone large enough to protect the tress.

FIGURE(S)







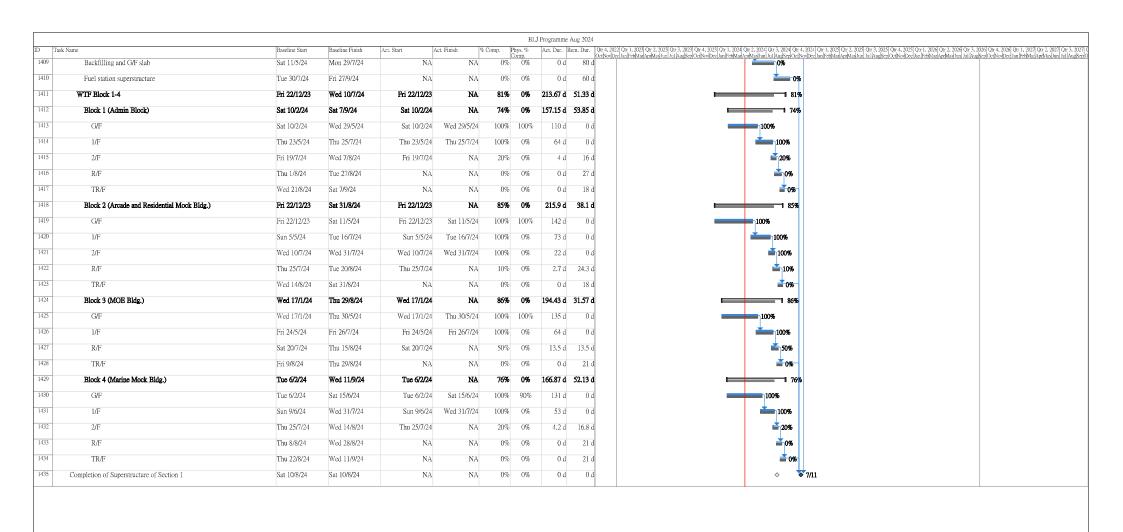
# APPENDIX A CONSTRUCTION PROGRAMME AND PROACTIVE ENVIRONMENTAL PROTECTION PROFORMA

## Construction Programme (Aug – Oct 2024)

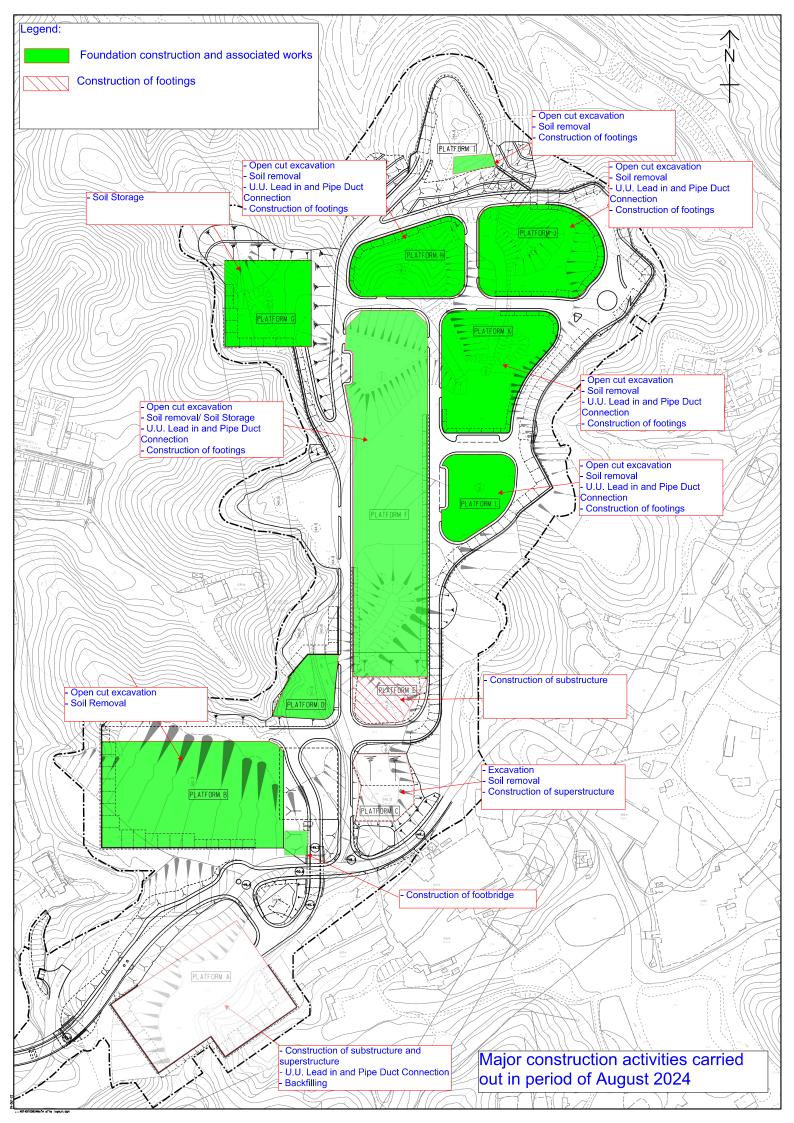
			Baseline Finish	Act. Start A	ct. Finish %	Comp. P	hys. %		Rem. Dur.	of the Black that A make of the Little and Continue Band Continue Band and A make of the Little and Continue Band
S	ite Execution	Fri 23/12/22	Sat 5/7/25	Wed 21/12/22	NA	20%	omp. 0%	217.25 d	883.75 d	Qcr   2023  Qcr 2, 2023  Qcr 3, 2023  Qcr 4, 2023  Qcr 1, 2024  Qcr 2, 2024  Qcr 3, 2024  Qcr 4, 2024  Qcr 1, 2024  Qcr 3, 2025  Qcr 2, 2025  Qcr 3, 2025  Qcr 1, 2025  Qcr 1, 2026  Qcr 3, 2026  Qcr 4, 2025  Qcr 1, 2026  Qcr 3, 2026  Qcr 4, 2025  Qcr 1, 2026  Qcr 4, 2025  Qcr
0	External Works	Sat 22/7/23	Mon 2/6/25	Sat 22/7/23	NA	51%	0%	393.44 d	382.56 d	51%
l I	Section 1 Works	Sat 22/7/23	Wed 9/10/24	Sat 22/7/23	NA	59%	0%	288.15 d	203.85 d	59%
T	Trainning Ground	Sat 22/7/23	Wed 9/10/24	Sat 22/7/23	NA	77%	0%	363.02 d	109.98 d	77%
İ	2-WD Trainning Ground (Block 3)	Sat 22/7/23	Wed 9/10/24	Sat 22/7/23	NA	90%	0%	279.86 d	29.64 d	90%
	Excavation for Underground Service and Utilities Works	Sat 22/7/23	Sun 20/8/23	Sat 22/7/23	Sun 20/8/23	100%	0%	30 d	0 d	<b>■</b> 100%
	NICE001 - 14 days EOT Claimed	Mon 21/8/23	Sun 3/9/23	Mon 21/8/23	Sun 3/9/23	100%	0%	14 d	0 d	<b>1</b> 100%
	NICE002 - 4 days EOT Claimed	Mon 4/9/23	Thu 7/9/23	Mon 4/9/23	Thu 7/9/23	100%	0%	4 d	0 d	100%
	NICE003 - 10 days EOT Claimed	Fri 8/9/23	Sun 17/9/23	Fri 8/9/23	Sun 17/9/23	100%	0%	10 d	0 d	<b>₹</b> 100%
	NICE004 - 3.5 days EOT Claimed	NA	NA	Mon 18/9/23	Thu 21/9/23	100%	0%	3.5 d	0 d	100%
	NICE005 - 20 days EOT Claimed	NA	NA	Thu 21/9/23	Wed 11/10/23	100%	0%	20 d	0 d	± 100%
	NICE006 - 5.5 days EOT Claimed	NA	NA	Wed 11/10/23	Mon 16/10/23	100%	0%	5.5 d	0 d	₹100%
	U/G Drainage Installation	NA	NA	Thu 26/10/23	Sun 10/12/23	100%	0%	45 d	0 d	100%
	U/G Drainage Installation	Sun 6/8/23	Tue 19/9/23	Thu 26/10/23	Sun 10/12/23	100%	0%	45 d	0 d	100%
	Concrete Surround Works	Fri 15/9/23	Thu 28/9/23	Sun 10/12/23	Sun 24/12/23	100%	0%	14 d	0 d	<b>■</b>   r 100%
	Earthing Installation Works	Sat 26/8/23	Fri 29/9/23	Sun 22/10/23	Sat 25/11/23	100%	0%	35 d		100%
	Backfill	Fri 22/9/23	Sat 21/10/23	Sun 17/12/23	Tue 16/1/24	100%	0%	30 d		100%
	U/G Cable Pits / Ducts for BS / SFH / Plumbing Pipes / Rainwate		Wed 20/12/23	Tue 16/1/24	Thu 25/4/24	100%	0%	100 d		100%
	Complete U/G Services & Utilities Works	Wed 20/12/23	Wed 20/12/23	Thu 25/4/24	Thu 25/4/24	100%	0%	0 d		♦ 25/4
	Backfilling Works	Fri 1/12/23	Sun 14/1/24	Sun 25/2/24	Wed 10/4/24	100%	0%	45 d		100%
	Driving Ground Concreting Works	Mon 15/1/24	Tue 13/2/24	Wed 10/4/24	NA	25%	0%	7.5 d		25%
	Finishing Works and Road Painting	Tue 24/9/24	Wed 9/10/24	NA	NA	0%	0%	0 d		0% =
	Parking and Trainning Facilities	Tue 14/11/23	Tue 8/10/24	Wed 10/1/24	NA	86%	0%	259.19 d		1 86%
	Excavation for Underground Service and Utilities Works	Tue 14/11/23	Sat 23/12/23	Wed 10/1/24	Sun 18/2/24	100%	0%	40 d		100%
	U/G Drainage Installation	Wed 29/11/23	Sat 27/1/24	Thu 25/1/24	Sun 24/3/24	100%	0%	60 d		100%
	Concrete Surround Works	Tue 23/1/24	Mon 5/2/24	Wed 20/3/24	Tue 2/4/24	100%	0%	14 d		100%
	Earthing Installation Works	Fri 29/12/23	Sat 27/1/24	Sat 24/2/24	Sun 24/3/24	100%	0%	30 d		100%
	Backfill	Tue 30/1/24	Wed 28/2/24	Wed 27/3/24	Thu 25/4/24	100%	0%	30 d		100%
	U/G Cable Pits / Ducts for BS / SFH / Plumbing Pipes / Rainwate		Sun 28/4/24	Fri 26/4/24	Mon 24/6/24	100%	0%	60 d		100%
	Complete U/G Services & Utilities Works	Sun 28/4/24	Sun 28/4/24 Sun 28/4/24	Mon 24/6/24	Mon 24/6/24 Mon 24/6/24	100%	0%	00 d		24/6
	Backfilling Works	Tue 9/4/24	Thu 23/5/24	Wed 5/6/24	Fri 19/7/24	100%	0%	45 d		1100%
	Driving Ground Concreting Works	Fri 24/5/24					0%	45 a		100%
	Priving Ground Concreting works Finishing Works and Road Painting	Tue 24/9/24	Sat 22/6/24 Tue 8/10/24	NA NA	NA NA	0% 0%	0%	0 d		— UTO
		Mon 21/8/23	Tue 8/10/24	Tue 17/10/23	NA <b>NA</b>	80%	0%	225.03 d		9002
	Braking Training (Block 4)  Excayation for Underground Service and Utilities Works	Mon 21/8/23 NA	NA NA	Tue 17/10/23		100%	0%	225.03 d		80%
	Excavation for Underground Service and Utilities Works	Mon 21/8/23	NA Wed 4/10/23		Sun 10/12/23	100%	0%	33 a 45 d		100%
			Wed 4/10/23 NA	Tue 17/10/23	Thu 30/11/23					100%
	NICE003 - 10 days EOT Claimed	NA Two 5/0/02		Fri 1/12/23	Sun 10/12/23	100%	0%	10 d		
	U/G Drainage Installation	Tue 5/9/23	Fri 3/11/23	Sat 16/12/23	Tue 13/2/24	100%	0%	60 d		100%
	Concrete Surround Works	Mon 30/10/23	Sun 12/11/23	Fri 9/2/24	Thu 22/2/24	100%	0%	14 d		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Earthing Installation Works	Tue 10/10/23	Sat 18/11/23	Wed 6/12/23	Sun 14/1/24	100%	0%	40 d		100%
	Backfill  U/G Cable Pits / Ducts for BS / SFH / Plumbing Pipes / Rainwate	Mon 6/11/23	Tue 5/12/23 Sat 3/2/24	Fri 16/2/24	Sat 16/3/24	100%	0%	30 d 48 d		
				Sun 17/3/24	NA NA	80%	0%			80%
	Complete U/G Services & Utilities Works  Backfilling Works	Sat 3/2/24	Sat 3/2/24	Wed 15/5/24	NA NA	70%	0%	0 d		♦ 15/5
		Mon 15/1/24	Wed 28/2/24	Fri 26/4/24	NA NA	70%	0%	31.5 d		70%
	Driving Ground Concreting Works	Thu 29/2/24	Fri 29/3/24	NA NA	NA	0%	0%	0 d		0%
L	Finishing Works and Road Painting	Tue 24/9/24	Tue 8/10/24	NA	NA	0%	0%	0 d		0%
	Skid Pan (Block 5)	Thu 5/10/23	Tue 8/10/24	Pri 1/12/23	NA.		0%	191.78 d		84%
	Excavation for Underground Service and Utilities Works	Thu 5/10/23	Mon 13/11/23	Fri 1/12/23	Tue 9/1/24	100%	0%	40 d		100%
	U/G Drainage Installation	Fri 20/10/23	Fri 8/12/23	Sat 16/12/23	Sat 3/2/24	100%		50 d		100%
	Concrete Surround Works	Mon 4/12/23	Sun 17/12/23	Tue 30/1/24		100%		14 d		= 100%
	Earthing Installation Works	Sun 19/11/23	Sat 23/12/23	Mon 15/1/24	Sun 18/2/24	100%	0%	35 d		100%
Ĺ	Backfill	Mon 11/12/23	Tue 9/1/24	Tue 6/2/24	Wed 6/3/24	100%	0%	30 d	0 d	100%
_	Cities	2-14				-		Data Port	Davidso	A Division
	Critical Critical Split	Split Fask Progress		Finish-only Duration-only		1		Path Driving Baseline	Predecessor N	Milestone Project Summary Inactive Milestone Summary Progress External Tasks Inactive Summary

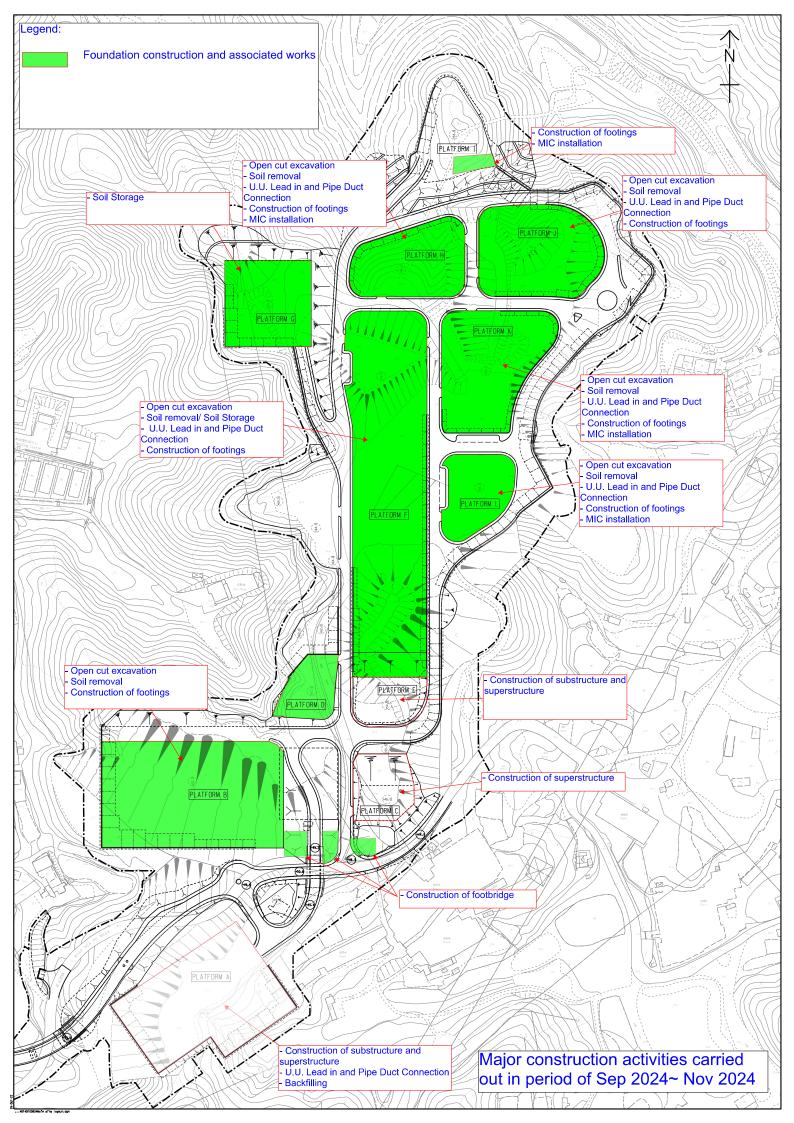
Task N								J Programme		
M I	Name	Baseline Start	Baseline Finish	Act. Start Ac	. Finish %	Comp. P	hys. % lomp.	Act. Dur.	Rem. Dur.   Qtr 4,	· 1. 2022 Qur 2. 2023 Qur 3. 2023 Qur 4. 2023 Qur 1. 2024 Qur 2. 2024 Qur 3. 2024 Qur 4. 2024 Qur 2. 2024 Qur 3. 2025 Qur 3. 2025 Qur 4. 2025 Qur 4. 2025 Qur 1. 2024 Qur 2. 2026 Qur 3. 2026 Qur 3. 2026 Qur 3. 2026 Qur 4. 2025 Qur 1. 2024 Qur 3. 2026 Qur 3. 2025 Qur 4. 2025 Qur 4. 2025 Qur 1. 2024 Qur 2. 2026 Qur 3. 2
	U/G Cable Pits / Ducts for BS / SFH / Plumbing Pipes / Rainwater	i IWed 10/1/24	Sat 9/3/24	Thu 7/3/24	Sun 5/5/24	100%	0%	60 d	0 d	100%
02	Complete U/G Services & Utilities Works	Sat 9/3/24	Sat 9/3/24	Sun 5/5/24	NA	90%	0%	0 d	0 d	
03	Backfilling Works	Mon 19/2/24	Wed 3/4/24	Tue 16/4/24	NA	90%	0%	40.5 d	4.5 d	90%
04	Driving Ground Concreting Works	Thu 4/4/24	Fri 3/5/24	NA	NA	0%	0%	0 d	30 d	<b>—</b> <u>*</u> 0%
05	Finishing Works and Road Painting	Tue 24/9/24	Tue 8/10/24	NA	NA	0%	0%	0 d	15 d	<b>*</b> 0% <b>■</b>
706	4-WD Trainning Ground (Block 6 and Block 9)	Fri 2/2/24	Tue 8/10/24	Sat 30/3/24	NA	73%	0%	158.88 d	60.12 d	73%
)7	Excavation for Underground Service and Utilities Works	Fri 2/2/24	Tue 12/3/24	Sat 30/3/24	Wed 8/5/24	100%	0%	40 d	0 d	100%
08	U/G Drainage Installation	Sat 17/2/24	Mon 1/4/24	Sun 14/4/24	Tue 28/5/24	100%	0%	45 d	0 d	100%
)9	Concrete Surround Works	Tue 2/4/24	Mon 15/4/24	Fri 24/5/24	Thu 6/6/24	100%	0%	14 d	0 d	100%
10	Earthing Installation Works	Mon 18/3/24	Tue 16/4/24	Tue 14/5/24	Wed 12/6/24	100%	0%	30 d	0 d	100%
711	Backfill	Tue 9/4/24	Wed 8/5/24	Fri 31/5/24	Sat 29/6/24	100%	0%	30 d	0 d	100%
12	U/G Cable Pits / Ducts for BS / SFH / Plumbing Pipes / Rainwater		Sun 7/7/24	Sun 30/6/24	NA	60%	0%	36 d	24 d	60%
13	Complete U/G Services & Utilities Works	Sun 7/7/24	Sun 7/7/24	Wed 28/8/24	NA	60%	0%	0 d	0 d	♦ 22/8
14	Backfilling Works	Tue 18/6/24	Thu 1/8/24	Fri 9/8/24	NA	60%	0%	27 d	18 d	60%
15	Driving Ground Concreting Works	Fri 2/8/24	Sat 31/8/24	NA NA	NA	0%	0%	0 d	27 d	
16	Finishing Works and Road Painting	Tue 24/9/24	Tue 8/10/24	NA	NA	0%	0%	0 d	15 d	
17	2-WD and 4-WD Trainning Ground (Block 7)	Sun 24/12/23	Tue 8/10/24	Mon 19/2/24	NA.	89%	0%	206.36 d	25.64 d	89%
18	Excavation for Underground Service and Utilities Works	Sun 24/12/23	Thu 1/2/24	Mon 19/2/24	Fri 29/3/24	100%	0%	40 d	23.04 u	100%
19	U/G Drainage Installation	Mon 8/1/24	Sat 2/3/24	Tue 5/3/24	Sun 28/4/24	100%		55 d	0.d	100%
20	Concrete Surround Works	Tue 27/2/24	Mon 11/3/24	Wed 24/4/24	Tue 7/5/24	100%	0%	14 d	0 d	= 100%
21	Earthing Installation Works	Wed 7/2/24	Mon 11/3/24 Thu 7/3/24	Thu 4/4/24	Fri 3/5/24	100%	0%	30 d		100%
22	Backfill	Tue 5/3/24	Wed 3/4/24	Wed 1/5/24	Thu 30/5/24	100%	0%	30 d	0 d	100%
23										
	U/G Cable Pits / Ducts for BS / SFH / Plumbing Pipes / Rainwater		Sun 2/6/24	Fri 31/5/24	NA	95%	0%	57 d	3 d	95%
24	Complete U/G Services & Utilities Works	Sun 2/6/24	Sun 2/6/24	Mon 29/7/24	NA	95%	0%	0 d	0 d	♦ • 2977
	Backfilling Works	Tue 14/5/24	Thu 27/6/24	Wed 10/7/24	NA	95%	0%	42.75 d		95%
26	Driving Ground Concreting Works	Fri 28/6/24	Sat 27/7/24	Sat 24/8/24	NA	50%	0%	15 d	15 d	50%
27	Finishing Works and Road Painting	Tue 24/9/24	Tue 8/10/24	NA	NA	0%	0%	0 d	15 d	₩ 0%
28	Gas Filing Station (Block 8)	Wed 13/3/24	Tue 8/10/24	Thu 9/5/24	NA	22%	0%		138.81 d	1 22%
80	Excavation for Underground Service and Utilities Works	Wed 13/3/24	Wed 1/5/24	Thu 9/5/24	Thu 27/6/24	100%	0%	50 d	0 d	100%
	U/G Drainage Installation	Thu 28/3/24	Tue 21/5/24	Fri 24/5/24	NA	20%	0%	9 d	36 d	20%
31	Concrete Surround Works	Wed 22/5/24	Tue 4/6/24	NA	NA	0%	0%	0 d	14 d	<b>=</b> 10%
32	Earthing Installation Works	Mon 27/5/24	Tue 25/6/24	NA	NA	0%	0%	0 d	30 d	- 0%
33	Backfill	Fri 31/5/24	Sat 29/6/24	NA	NA	0%	0%	0 d	34 d	<b>—</b> 0%
	U/G Cable Pits / Ducts for BS / SFH / Plumbing Pipes / Rainwater		Thu 8/8/24	NA	NA	0%	0%	0 d	40 d	0%
			Thu 8/8/24	NA	NA	0%	0%	0 d	0 d	♦ 28/9
35	Complete U/G Services & Utilities Works	Thu 8/8/24								0%
5	Complete U/G Services & Utilities Works Backfilling Works	Sat 20/7/24	Mon 2/9/24	NA	NA	0%	0%	0 d	30 d	
35 36 37	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works	Sat 20/7/24 Tue 3/9/24	Mon 23/9/24	NA	NA	0%	0%	0 d 0 d	13 d	<b>- 0%</b>
35 36 37 38	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24	Mon 23/9/24 Tue 8/10/24	NA NA	NA NA	0% 0%	0%	0 d 0 d 0 d	13 d 12 d	0%
35 36 37 38 39	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Pencing, Planters & RC Structures	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24	Mon 23/9/24 Tue 8/10/24 <b>Sun 12/5/24</b>	NA NA <b>NA</b>	NA NA <b>NA</b>	0% 0% <b>0%</b>	0% 0% <b>0%</b>	0 d 0 d 0 d	13 d 12 d <b>75 d</b>	0% 1 0%
35 36 37 38 39 40	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 <b>Wed 28/2/24</b> Wed 28/2/24	Mon 23/9/24 Tue 8/10/24 <b>Sun 12/5/24</b> Fri 12/4/24	NA NA <b>NA</b> NA	NA NA <b>NA</b> NA	0% 0% <b>0%</b> 0%	0% 0% <b>0%</b> 0%	0 d 0 d 0 d <b>0 d</b> 0 d	13 d 12 d <b>75 d</b> 45 d	0%
735 736 737 738 739 740	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 <b>Wed 28/2/24</b> Wed 28/2/24 Fri 29/3/24	Mon 23/9/24 Tue 8/10/24 <b>Sun 12/5/24</b> Fri 12/4/24 Sun 12/5/24	NA NA <b>NA</b> NA	NA NA NA NA	0% 0% <b>0%</b> 0% 0%	0% 0% <b>0%</b> 0%	0 d 0 d 0 d <b>0 d</b> 0 d	13 d 12 d <b>75 d</b> 45 d 45 d	0% 0%
35 36 37 38 39 40 41	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures Complete Boundary Fencing, Planters & RC Structures	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 <b>Wed 28/2/24</b> Wed 28/2/24 Fri 29/3/24 Sun 12/5/24	Mon 23/9/24 Tue 8/10/24 <b>Sun 12/5/24</b> Fri 12/4/24 Sun 12/5/24 Sun 12/5/24	NA NA <b>NA</b> NA NA	NA NA <b>NA</b> NA NA	0% 0% <b>0%</b> 0% 0%	0% 0% <b>0%</b> 0% 0%	0 d 0 d 0 d 0 d 0 d	13 d 12 d <b>75 d</b> 45 d 45 d 0 d	0%
335 336 337 338 339 440 441 441 442	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures Complete Boundary Fencing, Planters & RC Structures Underground Services & Utilities Works	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 <b>Wed 28/2/24</b> Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 <b>Thu 30/11/23</b>	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Sun 12/5/24 Thu 28/3/24	NA NA NA NA NA NA	NA NA NA NA NA NA	0% 0% <b>0%</b> 0% 0% 0%	0% 0% <b>0%</b> 0% 0% 0%	0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	13 d 12 d <b>75 d</b> 45 d 45 d 0 d <b>120 d</b>	0% 0% 0% 00%
35 36 37 38 39 40 41 42 43 44	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures Complete Boundary Fencing, Planters & RC Structures Underground Services & Utilities Works U/G Drainage Works	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24 Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 Thu 30/11/23	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Sun 12/5/24 Thu 28/3/24 Thu 28/3/24	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA	0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0%	0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	13 d 12 d 75 d 45 d 45 d 0 d 120 d 240 d	0% 0% 0%
35 36 37 38 39 40 41 42 43 44 45	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures Complete Boundary Fencing, Planters & RC Structures Underground Services & Utilities Works	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24 Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 Thu 30/11/23	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Sun 12/5/24 Thu 28/3/24	NA NA NA NA NA NA	NA NA NA NA NA NA	0% 0% <b>0%</b> 0% 0% 0%	0% 0% <b>0%</b> 0% 0% 0%	0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	13 d 12 d <b>75 d</b> 45 d 45 d 0 d <b>120 d</b>	0% 0% 0% 00%
335 336 337 338 339 440 441 442 443 444 445	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures Complete Boundary Fencing, Planters & RC Structures Underground Services & Utilities Works U/G Drainage Works	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24 Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 Thu 30/11/23	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Sun 12/5/24 Thu 28/3/24 Thu 28/3/24	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA	0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0%	0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	13 d 12 d 75 d 45 d 45 d 0 d 120 d 240 d	0% 0% 0%
5 6 7 8 9 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7	Complete U/G Services & Utilities Works  Backfilling Works  Driving Ground Concreting Works  Finishing Works and Road Painting  Boundary Pencing, Planters & RC Structures  Boundary Fence Wall Structures  Planter Wall Structures  Complete Boundary Fencing, Planters & RC Structures  Underground Services & Utilities Works  U/G Drainage Works  U/G Cable Pits / Ducts for BS / SFH / AC Water Pipes / Plumbing Pi	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 Thu 30/11/23 Thu 30/11/23	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Sun 12/5/24 Thu 28/3/24 Thu 28/3/24	NA	NA	0% 0% 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0%	0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	13 d 12 d 75 d 45 d 45 d 0 d 120 d 240 d	0% 0% 0% 0%
15   16   17   18   19   10   11   12   13   14   15   16   17   17   17   17   17   17   17	Complete U/G Services & Utilities Works  Backfilling Works  Driving Ground Concreting Works  Finishing Works and Road Painting  Boundary Pencing, Planters & RC Structures  Boundary Fence Wall Structures  Planter Wall Structures  Complete Boundary Fencing, Planters & RC Structures  Underground Services & Utilities Works  U/G Cable Pits / Ducts for BS / SFH / AC Water Pipes / Plumbing Piccomplete U/G Services & Utilities Works	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 Thu 30/11/23 Thu 30/11/23 Thu 28/3/24	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Sun 12/5/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24	NA	NA	0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0%	0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	13 d 12 d 75 d 45 d 45 d 0 d 120 d 240 d 240 d 0 d	0% 0% 0% 0% 0% 0%
15 16 16 17 18 18 19 10 11 11 12 12 13 13 14 14 15 16 16 17 18 18	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures Planter Wall Structures Complete Boundary Fencing, Planters & RC Structures Underground Services & Utilities Works U/G Drainage Works U/G Cable Pits / Ducts for BS / SFH / AC Water Pipes / Plumbing Picture Complete U/G Services & Utilities Works Carriageway, Paving & Finishing	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 Thu 30/11/23 Thu 30/11/23 Thu 28/3/24 Fri 29/3/24	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Sun 12/5/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 6/6/24	NA N	NA N	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	13 d 12 d 75 d 45 d 45 d 0 d 120 d 240 d 240 d 0 d 70 d	0% 0% 0% 0% 0% 0%
35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures Planter Wall Structures Complete Boundary Fencing, Planters & RC Structures Underground Services & Utilities Works U/G Cable Pits / Ducts for BS / SPH / AC Water Pipes / Plumbing Pi Complete U/G Services & Utilities Works  Carriageway, Paving & Finishing Steel & Metalworks	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24 Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 Thu 30/11/23 Thu 30/11/23 Thu 28/3/24 Fri 29/3/24 Tue 23/4/24	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 6/6/24 Wed 22/5/24	NA N	NA N	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0 d d 0 d d	13 d 12 d 75 d 45 d 45 d 0 d 120 d 240 d 240 d 0 d 70 d 30 d	0% 0% 0% 0% 0% 0%
735 736 737 738 738 739 740 741 742 743 744 745 746 747 748	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures Planter Wall Structures Complete Boundary Fencing, Planters & RC Structures Underground Services & Utilities Works U/G Drainage Works U/G Gable Pits / Ducts for BS / SFH / AC Water Pipes / Plumbing Pi Complete U/G Services & Utilities Works Carriageway, Paving & Finishing Steel & Metalworks EVA / Carriageway & Paving Slabs	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24 Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 Thu 30/11/23 Thu 30/11/23 Thu 28/3/24 Fri 29/3/24 Fri 29/3/24 Fri 29/3/24	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 6/6/24 Wed 22/5/24 Sat 1/6/24	NA N	NA N	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0 d d 0 d d	13 d 12 d 75 d 45 d 45 d 0 d 120 d 240 d 240 d 0 d 70 d 30 d 65 d	0% 0% 0% 0% 0% 0%
735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 749	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures Complete Boundary Fencing, Planters & RC Structures Underground Services & Utilities Works U/G Cable Pits / Ducts for BS / SFH / AC Water Pipes / Plumbing Pi Complete U/G Services & Utilities Works  Carriageway, Paving & Finishing Steel & Metalworks EVA / Carriageway & Paving Slabs Finishings & Fitting-out Works	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24 Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 Thu 30/11/23 Thu 30/11/23 Thu 28/3/24 Pri 29/3/24 Tue 23/4/24 Fri 29/3/24 Tue 23/4/24	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Sun 12/5/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 6/6/24 Wed 22/5/24 Sat 1/6/24 Thu 6/6/24	NA N	NA N	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0 d d 0 d d	13 d 12 d 75 d 45 d 45 d 45 d 240 d 240 d 240 d 30 d 65 d 45 d	0% 0% 0% 0% 0% 0% 0%
734 735 736 737 738 737 738 738 740 741 742 743 744 745 746 747 748 749 750 751	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures Planter Wall Structures Complete Boundary Fencing, Planters & RC Structures Underground Services & Utilities Works U/G Drainage Works U/G Cable Pits / Ducts for BS / SFH / AC Water Pipes / Plumbing Pi Complete U/G Services & Utilities Works  Carriageway, Paving & Finishing Steel & Metalworks EVA / Carriageway & Paving Slabs Finishings & Fitting-out Works Complete Carriageway, Paving & Finishing Works	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24 Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 Thu 30/11/23 fip Thu 30/11/23 Fri 29/3/24 Fri 29/3/24 Tue 23/4/24 Fri 29/3/24 Tue 23/4/24 Thu 6/6/24	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Sun 12/5/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 6/6/24 Thu 6/6/24 Thu 6/6/24	NA N	NA N	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0 d d 0 d d	13 d 12 d 75 d 45 d 45 d 45 d 0 d 120 d 240 d 240 d 0 d 30 d 65 d 45 d	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0
35   36   37   38   39   39   340   341   342   344   344   344   344   344   344   344   344   345   350   351	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures Complete Boundary Fencing, Planters & RC Structures Underground Services & Utilities Works U/G Oralinage Works U/G Gable Pits / Ducts for BS / SFH / AC Water Pipes / Plumbing Pi Complete U/G Services & Utilities Works Carriageway, Paving & Finishing Steel & Metalworks EVA / Carriageway & Paving Slabs Finishings & Fitting-out Works Complete Carriageway, Paving & Finishing Works Complete External Works of Section1	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24 Wed 28/2/24 Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 Thu 30/11/23 Thu 30/11/23 Thu 28/3/24 Fri 29/3/24 Tue 23/4/24 Fri 29/3/24 Tue 23/4/24 Thu 6/6/24 Thu 6/6/24	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Sun 12/5/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 6/6/24 Thu 6/6/24 Thu 6/6/24	NA N	NA N	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0 d d d 0 d d d 0 d d 0 d d 0 d d 0 d d 0 d d 0 d d 0 d d 0 d d 0 d d 0 d d 0 d d 0	13 d 12 d 75 d 45 d 45 d 45 d 0 d 120 d 240 d 240 d 0 d 30 d 65 d 45 d	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0
335 336 337 338 339 440 441 442 443 444 445 50 50 51	Complete U/G Services & Utilities Works Backfilling Works Driving Ground Concreting Works Finishing Works and Road Painting Boundary Fencing, Planters & RC Structures Boundary Fence Wall Structures Planter Wall Structures Planter Wall Structures Complete Boundary Fencing, Planters & RC Structures Underground Services & Utilities Works U/G Drainage Works U/G Cable Pits / Ducts for BS / SFH / AC Water Pipes / Plumbing Pi Complete U/G Services & Utilities Works Carriageway, Paving & Finishing Steel & Metalworks EVA / Carriageway & Paving Slabs Finishings & Fitting-out Works Complete Carriageway, Paving & Finishing Works Complete External Works of Section1	Sat 20/7/24 Tue 3/9/24 Tue 24/9/24 Wed 28/2/24 Wed 28/2/24 Wed 28/2/24 Fri 29/3/24 Sun 12/5/24 Thu 30/11/23 Thu 30/11/23 Thu 28/3/24 Fri 29/3/24 Tue 23/4/24 Fri 29/3/24 Tue 23/4/24 Thu 6/6/24 Thu 6/6/24	Mon 23/9/24 Tue 8/10/24 Sun 12/5/24 Fri 12/4/24 Sun 12/5/24 Sun 12/5/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 28/3/24 Thu 6/6/24 Sat 1/6/24 Thu 6/6/24 Thu 6/6/24	NA N	NA N	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0 d d 0 d d	13 d 12 d 75 d 45 d 45 d 0 d 120 d 240 d 240 d 0 d 70 d 30 d 65 d 45 d 0 d	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0

-	Task Name	Baseline Start	Baseline Finish	Act Start Ac	Finish las	Comp In	hys. %		Rem Dur Otr	2022] Or 1, 2023] Or 2, 2023] Or 3, 2023] Or 4, 2023] Or 4, 2023] Or 1, 2023] Or 2, 2024] Or 3, 2023] Or 3, 2024] Or 3, 2024] Or 4, 2024] Or 1, 2023] Or 1, 2023] Or 2, 2023] Or 3, 2023] Or 4, 2023] Or 3, 2023] Or 4, 2023] Or 4, 2023] Or 5, 2023] Or 6, 2023] Or 6, 2023] Or 6, 2023] Or 7, 2023]
	Site Execution	Fri 23/12/22	Sat 5/7/25	Act. Start Ac  Wed 21/12/22	. Finish %	Comp. F	nys. % Comp.	179.14 d	921.86 d	2022 (2) r. 2023 (2; 2, 2023 (2; 2, 2023 (2; 4, 2023 (2; 4, 2023 (2; 1, 2024 (2; 2, 2024 (2; 3, 2024 (2; 4, 2024 (2; 1, 2025 (2; 2, 2024 (2; 4, 2025 (2; 3, 2024 (2; 4, 2025 (
70	Superstructure Construction	Sun 29/10/23	Wed 5/3/25	Mon 11/12/23	NA.	33%	0%		355.27 d	1 33%
71	Section 1 Works	Sun 29/10/23	Sat 14/9/24	Mon 11/12/23	NA.	44%	0%		190.3 d	44%
572	PD&TTC Block 1 (Cast in-situ + recess opening method)	Mon 6/11/23	Tue 5/11/24	Mon 11/12/23	NA.	17%			281.43 d	17%
73	Embed of Glass Wall Fabrication and Dilevery	Thu 7/3/24			NA NA		0%			
374			Sat 20/4/24	NA NA		0%		0 d		0%
	Embed of Glass Wall Installation	Thu 28/3/24	Wed 1/5/24	NA	NA	0%	0%	0 d		0%
375	G/F	Thu 2/5/24	Tue 13/8/24	Thu 2/5/24	Tue 13/8/24	100%	0%	104 d		100%
76	1/F	Mon 15/7/24	Tue 27/8/24	Mon 15/7/24	NA	20%	0%	8.8 d		20%
377	2/F	Tue 13/8/24	Tue 10/9/24	NA	NA	0%	0%	0 d		<b>1</b> 0%
378	3/F	Tue 27/8/24	Tue 24/9/24	NA	NA	0%	0%	0 d	29 d	0%
379	4/F	Tue 10/9/24	Tue 8/10/24	NA	NA	0%	0%	0 d	29 d	<b>⇒</b> 0%
880	R/F	Tue 24/9/24	Thu 17/10/24	NA	NA	0%	0%	0 d	24 d	<b>=</b> 0%
381	UR/F	Tue 8/10/24	Tue 22/10/24	NA	NA	0%	0%	0 d	15 d	<b>=</b> *0%
382	Late Cast RC Works for the Opening of Tower Crane	Tue 22/10/24	Thu 7/11/24	NA	NA	0%	0%	0 d	17 d	<b>■</b> 0%
883	Steel MiC Installation (Lifting through opening + Slide-in metho	d) Mon 11/12/23	Thu 14/11/24	Mon 11/12/23	NA	11%	0%	36.48 d	302.52 d	11%
384	Structural Materials Submission & Approval	Thu 21/3/24	Thu 21/3/24	NA	NA	0%	0%	0 d	0 d	<b>♦ <mark>218</mark></b>
385	Fitting Out Materials Submission & Approval	Mon 11/12/23	Mon 11/12/23	NA	NA	0%	0%	0 d	0 d	♦ 11/12
386	Structural materials Ordering and Fabrication of MiC Carcass	Fri 22/3/24	Sat 25/5/24	NA	NA	0%	0%	0 d	65 d	0%
87	MiC Fabrication / Installation and Dilevery on Site	Sun 26/5/24	Sun 25/8/24	NA	NA	0%	0%	0 d	92 d	0%
888	On-site Trial Installation	Mon 26/8/24	Fri 30/8/24	NA	NA	0%	0%	0 d	5 d	F0%
389	MiC and MiMep Installation, Late Cast RC Works	Sat 31/8/24	Mon 14/10/24	NA	NA	0%	0%	0 d	45 d	0%
390	PD&TTC Carpark	Mon 8/4/24	Thu 27/6/24	Mon 8/4/24	NA	54%	0%	43.4 d	37.6 đ	1 54%
91	Block 2 Carpark - L/G	Mon 8/4/24	Mon 27/5/24	Mon 8/4/24	Mon 27/5/24	100%	0%	50 d	0 d	100%
392	Block 2 Carpark - G/F	Tue 14/5/24	Thu 27/6/24	Tue 14/5/24	NA	2%	0%	0.9 d		2%
393	PD&TTC Block 3-9	Mon 11/12/23	Thu 14/11/24	NA.	NA.	0%		0 d		0%
394	RC MiC Fabrication	Mon 11/12/23	Sun 6/10/24	NA.	NA.	0%		0 d		0%
395	Structural Materials Submission& Approval	Thu 6/6/24	Thu 6/6/24	NA NA	NA.	0%	0%	0 d		<b>♦</b> 6/6
396										
397	Fitting Out Materials Submission& Approval	Mon 11/12/23	Mon 11/12/23	NA	NA	0%	0%	0 d		♦ 11/12
	Structural materials Ordering and Fabrication of MiC Carc		Sat 5/10/24	NA	NA	0%	0%	0 d		0%
398	Ready for Dilevery on Site	Sun 6/10/24	Sun 6/10/24	NA	NA	0%	0%	0 d		F0%
399	MiC Installation and Site Works	Mon. 7/10/24	Thu 14/11/24	NA	NA	0%		0 d		0%
100	Block 3 (2-wheeled driving ground) (12Nos.of MiC)	Mon 7/10/24	Sun 13/10/24	NA	NA	0%	0%	0 d		i <sup>*</sup> 0%
101	Block 4 (Emergency Braking Training) (14Nos.of MiC)	Fri 8/11/24	Thu 14/11/24	NA	NA	0%	0%	0 d	7 d	0%
402	Block 5 (Skid Pad) (26Nos.of MiC)	Fri 8/11/24	Thu 14/11/24	NA	NA	0%	0%	0 d	7 d	0%
103	Block 6 (4-wheeled driving ground) ( 9Nos.of MiC)	Tue 22/10/24	Mon 28/10/24	NA	NA	0%	0%	0 d	7 d	<b>* 0%</b>
404	Block 7 (2-wheeled & 4-wheeled driving ground) ( 11Nos.	of MTue 29/10/24	Mon 4/11/24	NA	NA	0%	0%	0 d	7 d	₩ 0%
105	Block 8 (Gas Filling Station) (10Nos.of MiC)	Fri 8/11/24	Thu 14/11/24	NA	NA	0%	0%	0 d	7 d	> 0%
406	Block 9 (4-wheeled driving ground) (5Nos.of MiC)	Fri 8/11/24	Thu 14/11/24	NA	NA	0%	0%	0 d	7 d	0%
407	Fuel filling Station	Fri 12/1/24	Fri 27/9/24	NA	NA	0%	0%	0 d	260 đ	1 0%
408	Underground fuel tank	Fri 12/1/24	Fri 10/5/24	NA	NA	0%	0%	0 d	120 d	0%
	Critical	Split		Finish-only		3			Predecessor Norm	
	Critical Split	Task Progress		Duration-only				Baseline		Summary Progress External Tasks Inactive Summary
	Critical Progress	Manual Task		Poth Driving Dec	ecessor Milestone Tasi	r 📤		Baseline Spl	it	Summary External Milestone $\Diamond$ Deadline



## Layout Plan with major construction activities





### Proactive Environmental Protection Proforma

### Design and Construction of Kong Nga Po Police Training Facilities <u>Proactive Environmental Protection Proforma</u>

Ref*	Proposed	Location/Working	Anticipated Major	Recommended Mitigation Measures
	Construction	Period	Impacts	
	Method			
EIA 3.9.1;	Open cut	Kong Nga Po Site	Dust impact from	• Use of regular water spraying (once every 1.25 hours or 8
EM&A Log 2.2	excavation		excavation	times per day) at all active works area exposed site surfaces
			activities and earth	and unpaved roads, particularly during dry weather
			moving	Deploy water bowser for regular water spraying to enhance
				dust suppression
				Manual water spraying for dusty operation where inaccessible
				by water bowser
				Speed control of site transportation
				Stockpile of dusty materials will be covered by tarpaulin
				sheets to avoid wind-blown dust
				Vehicles used for transporting dusty materials/spoils will be
				covered by mechanical cover before leaving the site
				Wheel washing facilities will be provided and cleaning the
				wheel of all vehicles before leaving the site
EIA 4.4.6;			Noise Control	Regular inspection and maintenance of plant & equipment in
EM&A Log 3.2				good condition

Working Period: Aug to Oct 2024

	Working in Restricted Hours	<ul> <li>Enclose the noisy part of machineries with noise enclosure</li> <li>Adopt of Quality Powered Mechanical Equipment (QPME) if possible</li> <li>Valid construction noise permit should be obtained and displayed on site</li> <li>In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out</li> </ul>
EIA 5.6.1.2;	Water Pollution	Cover the stockpiles of construction materials to reduce the
EM&A Log 4.2	Control	potential for water pollution
		<ul> <li>Provide wastewater treatment facilities prior to discharge of wastewater</li> </ul>
		Regular inspection and maintenance of wastewater treatment facilities
		Wastewater pumped out of the excavation areas will be treated to remove suspended solids prior to discharge
		Hard paving or well-compact of main haul road to minimize washout of soil
		Wheels of all vehicles and plants will be cleaned before
		leaving the work areas to remove sediment, soil and debris
		from the tracked. The wastewater will be treated and reused
		on site or discharged.
EIA 7.5.1.1 &	Waste Generation	Training of site personnel in proper waste management and

7.5.1.2;				chemical handling procedures
EM&A Log 6.2				Proper storage and sorting of excavated inert materials to
				maximize on site reuse for backfilling
				Surplus inert C&D materials will be disposed of at designated
				Government's PFRF.
EIA 7.5.1.4;			Chemical Waste	Chemical waste should be stored at chemical waste container
EM&A Log 6.2				and collected by a licensed collector to transport and dispose
				of at the approved Chemical Waste Treatment Centre
				Drip tray and chemical spillage kit will be provided on site
EIA 9.7.1 and			Ecology Concern	Provide training to frontline workers for the conservative
EM&A Log 8.3				species
				Provision of protective fence for the conservative species
				Regular inspection for concerned vegetation and conservative
				species
EIA Table 10.11;			Landscape and	Preservation of existing trees will be undertaken in
EM&A Table 9.1			Visual Impact	accordance with DEVB TC(W) 7/2015 and Guidelines for Tree
				Risk Assessment and Management Arrangement
				Restrict construction area to minimize the impact on existing
				retained trees
EIA 3.9.1;	Soil Removal	Kong Nga Po Site	Dust impact from	• Use of regular water spraying (once every 1.25 hours or 8
EM&A Log 2.2			excavation	times per day) at all active works area exposed site surfaces
			activities and earth	and unpaved roads, particularly during dry weather

EIA 4.4.6;	Noise Control	<ul> <li>Water spraying during loading and unloading of excavated materials</li> <li>Vehicles used for transporting dusty materials/spoils will be covered by mechanical cover before leaving the site</li> <li>Deploy water bowser for regular water spraying to enhance dust suppression</li> <li>Speed control of site transportation</li> <li>Stockpile of dusty materials will be covered by tarpaulin sheets to avoid wind-blown dust</li> <li>Wheel washing facilities will be provided and cleaning the wheel of all vehicles before leaving the site</li> <li>Regular inspection and maintenance of plant &amp; equipment in</li> </ul>
EM&A Log 3.2		<ul> <li>good condition</li> <li>Enclose the noisy part of machineries with noise enclosure</li> <li>Adopt of Quality Powered Mechanical Equipment (QPME) if possible</li> </ul>
	Working in Restricted Hours	<ul> <li>Valid construction noise permit should be obtained and displayed on site</li> <li>In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out</li> </ul>
EIA 5.6.1.2;	Water Pollution	Cover the stockpiles of excavated materials to reduce the
EM&A Log 4.2	Control	potential for water pollution

EIA 7.5.1.1 & 7.5.1.2;	Waste Generation	<ul> <li>Provide wastewater treatment facilities prior to discharge of wastewater</li> <li>Regular inspection and maintenance of wastewater treatment facilities</li> <li>Wheels of all vehicles and plants will be cleaned before leaving the work areas to remove sediment, soil and debris from the tracked. The wastewater will be treated and reused on site or discharged.</li> <li>Training of site personnel in proper waste management and chemical handling procedures</li> </ul>
EM&A Log 6.2		Proper storage and sorting of excavated inert materials to
		maximize on site reuse for backfilling
		Surplus inert C&D materials will be disposed of at designated
		Government's PFRF.
EIA 7.5.1.4;	Chemical Waste	Chemical waste should be stored at chemical waste container
EM&A Log 6.2		and collected by a licensed collector to transport and dispose
		of at the approved Chemical Waste Treatment Centre
		Drip tray and chemical spillage kit will be provided on site
EIA 9.7.1 and	Ecology Concern	Provide training to frontline workers for the conservative
EM&A Log 8.3		species
		Provision of protective fence for the conservative species
		Regular inspection for concerned vegetation and conservative

				species
EIA Table 10.11; EM&A Table 9.1			Landscape and Visual Impact	<ul> <li>Preservation of existing trees will be undertaken in accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement</li> <li>Restrict construction area to minimize the impact on existing retained trees</li> </ul>
EIA 3.9.1; EM&A Log 2.2	Construction of footings	Kong Nga Po Site	Air	<ul> <li>Regular inspection and maintenance of plant and equipment in good condition</li> <li>Regularly clean up stockpiles and debris to avoid accumulation of materials</li> <li>Dusty materials exceeding 20 bags shall be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting.</li> </ul>
EIA 4.4.6; EM&A Log 3.2			Noise Control	<ul> <li>Regular inspection and maintenance of plant &amp; equipment in good condition</li> <li>Enclose the noisy part of machineries with noise enclosure</li> <li>Adopt of Quality Powered Mechanical Equipment (QPME) if possible</li> </ul>
			Working in Restricted Hours	<ul> <li>Valid construction noise permit should be obtained and displayed on site</li> <li>In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out</li> </ul>

EIA 5.6.1.2;			Water Pollution	Wheels of all vehicles and plants will be cleaned before
EM&A Log 4.2			Control	<ul> <li>leaving the work areas to remove sediment, soil and debris from the tracked. The wastewater will be treated and reused on site or discharged.</li> <li>Designated location for residual concrete washout</li> <li>Provide wastewater treatment facilities prior to discharge of wastewater</li> </ul>
EIA 7.5.1.4; EM&A Log			Chemical Waste	Drip tray and chemical spillage kit shall be provided on site
EIA 9.7.1 and EM&A Log 8.3			Ecology Concern	<ul> <li>Provide training to frontline workers for the conservative species</li> <li>Provision of protective fence for the conservative species</li> <li>Regular inspection for concerned vegetation and conservative species</li> </ul>
EIA Table 10.11;			Landscape and	Preservation of existing trees will be undertaken in
EM&A Table 9.1			Visual Impact	<ul> <li>accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement</li> <li>Implement temporary traffic arrangement which control construction area to minimize landscape and visual impacts</li> </ul>
EIA 3.9.1;	Construction	Kong Nga Po Site	Air	Regular inspection and maintenance of plant and equipment
EM&A Log 2.2	of substructure			in good condition
	and			Regularly clean up stockpiles and debris to avoid

	superstructure		<ul> <li>accumulation of materials</li> <li>Dusty materials exceeding 20 bags shall be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting.</li> </ul>
EIA 4.4.6; EM&A Log 3.2		Noise Control	<ul> <li>Regular inspection and maintenance of plant &amp; equipment in good condition</li> <li>Enclose the noisy part of machineries with noise enclosure</li> <li>Adopt of Quality Powered Mechanical Equipment (QPME) if possible</li> </ul>
		Working in Restricted Hours	<ul> <li>Valid construction noise permit should be obtained and displayed on site</li> <li>In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out</li> </ul>
EIA 5.6.1.2; EM&A Log 4.2		Water Pollution Control	<ul> <li>Cover the stockpiles of construction materials to reduce the potential for water pollution</li> <li>Provide wastewater treatment facilities prior to discharge of wastewater</li> <li>Wastewater generated from surface runoff shall be treated prior to discharge</li> <li>Manholes should be temporarily sealed to prevent silt, construction materials or debris from entering the drainage system.</li> </ul>

EIA 7.5.1.1; EM&A Log 6.2			Waste Management	<ul> <li>Cover stockpiles of C&amp;D materials by impervious sheets to avoid wind-blown dust.</li> <li>Spray water on all dusty materials including C&amp;D materials immediately prior to any loading transfer operation</li> <li>Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal</li> </ul>
EIA 7.5.1.4; EM&A Log 6.2			Chemical Waste	Drip tray and chemical spillage kit shall be provided on site
EIA 9.7.1 and EM&A Log 8.3			Ecology Concern	<ul> <li>Provide training to frontline workers for the conservative species</li> <li>Provision of protective fence for the conservative species</li> <li>Regular inspection for concerned vegetation and conservative species</li> </ul>
EIA Table 10.11;			Landscape and	Preservation of existing trees will be undertaken in  Occupation of existing trees will be undertaken in  Occupation of existing trees will be undertaken in  Occupation of existing trees will be undertaken in
EM&A Table 9.1			Visual Impact	<ul> <li>accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement</li> <li>Implement temporary traffic arrangement which control construction area to minimize landscape and visual impacts</li> </ul>
EIA 3.9.1;	Construction	Kong Nga Po Site	Air	Regular inspection and maintenance of plant and equipment in good condition
EM&A Log 2.2	of footbridge			in good condition

		<ul> <li>Water spraying during loading and unloading of excavated materials</li> <li>Regularly clean up stockpiles and debris to avoid accumulation of materials</li> <li>Dusty materials exceeding 20 bags shall be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting.</li> </ul>
EIA 4.4.6;	Noise Control	Regular inspection and maintenance of plant & equipment in
EM&A Log 3.2		good condition
		Adopt of Quality Powered Mechanical Equipment (QPME) if possible
	Working in	Valid construction noise permit should be obtained and
	Restricted Hours	displayed on site
		In case of non-compliance with the construction noise criteria,
		more frequent monitoring and action should be carried out
EIA 5.6.1.2;	Water Pollution	Cover the stockpiles of construction materials to reduce the
EM&A Log 4.2	Control	potential for water pollution
		Provide wastewater treatment facilities prior to discharge of
		wastewater
		Wastewater generated from surface runoff shall be treated
		prior to discharge
EIA 7.5.1.1;	Waste	Cover stockpiles of C&D materials by impervious sheets to

EM&A Log 6.2			Management	<ul> <li>avoid wind-blown dust.</li> <li>Spray water on all dusty materials including C&amp;D materials immediately prior to any loading transfer operation</li> <li>Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal</li> </ul>
EIA 7.5.1.4; EM&A Log 6.2			Chemical Waste	Drip tray and chemical spillage kit shall be provided on site
EIA Table 10.11; EM&A Table 9.1			Landscape and Visual Impact	<ul> <li>Preservation of existing trees will be undertaken in accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement</li> <li>Implement temporary traffic arrangement which control construction area to minimize landscape and visual impacts</li> </ul>
EIA 3.9.1; EM&A Log 2.2	Backfilling	Kong Nga Po Site	Air	<ul> <li>Deploy water bowser for regular water spraying to enhance dust suppression</li> <li>Manual water spraying for dusty operation where inaccessible by water bowser</li> <li>Speed control of site transportation</li> <li>Stockpile of dusty materials will be covered by tarpaulin sheets to avoid wind-blown dust</li> <li>Vehicles used for transporting dusty materials/spoils will be covered by mechanical cover before leaving the site</li> </ul>

	Wheel washing facilities will be provided and cleaning the wheel of all vehicles before leaving the site
Noise Control	<ul> <li>Regular inspection and maintenance of plant &amp; equipment in good condition</li> <li>Enclose the noisy part of machineries with noise enclosure</li> <li>Adopt of Quality Powered Mechanical Equipment (QPME) if possible</li> </ul>
Working in Restricted Hours	<ul> <li>Valid construction noise permit should be obtained and displayed on site</li> <li>In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out</li> </ul>
Water Pollution Control	<ul> <li>Cover the stockpiles of construction materials to reduce the potential for water pollution</li> <li>Provide wastewater treatment facilities prior to discharge of wastewater</li> <li>Regular inspection and maintenance of wastewater treatment facilities</li> <li>Wastewater pumped out of the excavation areas will be treated to remove suspended solids prior to discharge</li> <li>Hard paving or well-compact of main haul road to minimize washout of soil</li> </ul>
	Working in Restricted Hours Water Pollution

		leaving the work areas to remove sediment, soil and debris from the tracked. The wastewater will be treated and reused on site or discharged.
EIA 7.5.1.1 &	Waste Generation	Training of site personnel in proper waste management and
7.5.1.2;		chemical handling procedures
EM&A Log 6.2		Proper storage and sorting of excavated inert materials to
		maximize on site reuse for backfilling
		Surplus inert C&D materials will be disposed of at designated
		Government's PFRF or reuse at other contracts.

<sup>\*</sup>EIA Ref/EM&A Log/ Design Document Ref

<sup>\*\*</sup>Details of equipment, vehicles, plants, processes, technologies for the construction method

### Design and Construction of Kong Nga Po Police Training Facilities <u>Proactive Environmental Protection Proforma</u>

Ref*	Proposed	Location/Working	Anticipated	Recommended Mitigation	Photo Records (Partial)
	Construction	Period	Major Impacts	Measures	
	Method				
EIA 3.9.1; EM&A Log 2.2		Kong Nga Po Site	Dust impact	<ul> <li>Manual water spraying for dust suppression</li> <li>Regular inspection and maintenance of plant and equipment in good condition</li> <li>Cover stockpile with impervious sheets or grout</li> <li>Provide wheel washing</li> </ul>	By main contractor at KNP site
				facility at site entrance	

Working Period: August 2024

	By subcontractor at KNP site
	30.08.202/ By subcontractor at KNP site

EIA 4.4.6;	No	oise	Regular inspection and	
EM&A Log			maintenance of plant &	
3.2			<ul> <li>equipment in good condition</li> <li>Deploy Quality Powered Mechanical Equipment (QPME) if possible</li> <li>Valid construction noise permit should be</li> </ul>	The state of the s
			displayed at site	By main contractor at KNP site
			entrance.	By main contractor at KNP site

EIA 9.7.1 and	Ecology Cor	ncern • Provide training to	
EM&A Log		workers about the	
8.3		conservative species	NEW TOWN
		Provision of protective	
		fence for the	
		conservative species	
		Regular inspection for	
		concerned vegetation	0.07.2024
		and conservative	By main contractor at KNP site
		species	
			30.08.2024 By subcontractor at KNP site

EIA EM&A 2.2	3.9.1; Log	Soil Removal	Kong Nga Po Site	Air	•	Deploy water bowser for regular water spraying to enhance dust suppression Cover dusty materials with impervious sheets Exposed slopes covered with waterproof layers such as tarpaulin sheets or grout to reduce the potential for sediment laden runoff entering the drainage system. The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site.	
--------------------	---------------	--------------	------------------	-----	---	---	--

EIA 4.4.6; EM&A Log 3.2	Noise	<ul> <li>Regular inspection and maintenance of plant &amp; equipment in good condition</li> <li>Deploy Quality Powered Mechanical Equipment (QPME) if possible</li> <li>Noise insulating fabric adopted for excavator.</li> </ul>	By main contractor at KNP site
EIA 5.6.1.2 and EM&A Log 4.2	Water Quality	<ul> <li>Cover exposed slopes with impervious sheets or cement grout.</li> <li>Wastewater pumped out of the excavation areas shall be treated to remove suspended solid prior to discharge.</li> <li>Provide desilting/sedimentation devices for wastewater</li> </ul>	By main contractor at KNP site

	treatment prior to discharge.  • Provide drip tray to prevent spillage of fuels	
		D2.08.2024  By main contractor at KNP site

			By main contractor at KNP site
EIA Table	Landscape and	Preservation of existing	
10.11;	Visual Impact	trees will be undertaken	
EM&A Table		in accordance with	
9.1		DEVB TC(W) 7/2015 and	
		Guidelines for Tree Risk	
		Assessment and	THE RESERVE AND ADDRESS OF THE PARTY AND ADDRE
		Management	38.07 1624
		Arrangement	
		• Implement temporary	By main contractor at KNP site
		traffic arrangement	
		which control	
		construction area to	

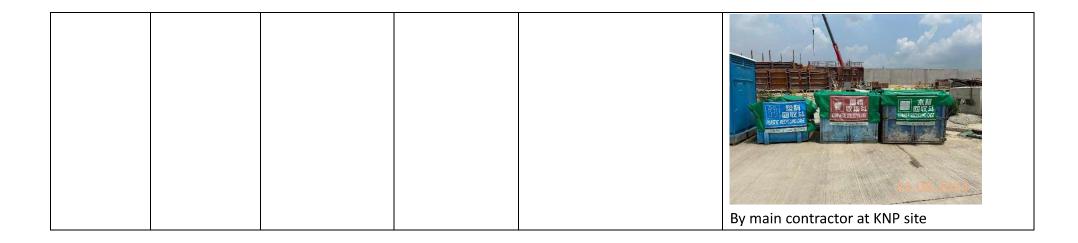
			minimize landscape and visual impacts
EIA 3.9.1; Construction EM&A Log of footings, substructure and superstructure	Kong Nga Po Site	Air	<ul> <li>Cover dusty materials with impervious sheets</li> <li>Exposed slopes covered with waterproof layers such as tarpaulin sheets or grout to reduce the potential for sediment laden runoff entering the drainage system.</li> <li>Provide wheel washing facility at site entrance</li> <li>By main contractor at KNP site</li> </ul>

EIA 4.4.6; EM&A Log 3.2	Noise	Valid construction noise permit should be obtained and displayed on site	30.08.2024  By main contractor at KNP site
EIA 5.6.1.3 and EM&A Log 4.2	Water Quality	<ul> <li>Surface water from concrete batching areas and the rest of the site should be separated as far as possible.</li> <li>Temporary drainage is free of obstruction.</li> <li>Gullies are sealed to prevent silt or debris from entering the drainage system.</li> </ul>	停 STOP 06.68 2624

		By subcontractor at KNP site
		By main contractor at KNP site

	By main contractor at KNP site
	By main contractor at KNP site

			By main contractor at KNP site
EIA 7.5.1.2 and EM&A Log 6.2	Waste Management	<ul> <li>Segregation and storage of different types of waste in different containers or skips or stockpiles to enhance reuse or recycling of materials and their proper disposal</li> <li>Sort non-inert C&amp;D materials to recover any recyclable portions</li> </ul>	非情性度物信存品 Non-Inert Waste Storage Area (如竹、木料、包裝廢物和生活垃圾 (Bamboo, Wood, Packaging Waste And Garbage) 新界東北進填區NENT 13.08.2024  By main contractor at KNP site



# APPENDIX B ACTION AND LIMIT LEVELS

# Appendix B - Action and Limit Levels

#### Table B-1 Action and Limit Levels for 1-hour TSP

Monitoring station	Action Level (ug/m³)	Limit Level (ug/m³)
AM1	308	500
AM2	311	500

### Table B-2 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hours on normal weekdays	When one documented complaint is received	75 dB(A)

#### Noted:

If works are to be carried during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

# APPENDIX C COPIES OF CALIBRATION CERTIFCATES



# RECALIBRATION DUE DATE:

**January 15, 2025** 

# Certificate of Calibration

**Calibration Certification Information** 

Cal. Date: January 15, 2024

Rootsmeter S/N: 438320

Ta: 294
Pa: 755.4

°K mm Hg

Operator: Jim Tisch

Calibration Model #: TE-5025A

Calibrator S/N: 3864

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4380	3.3	2.00
2	3	4	1	1.0270	6.4	4.00
3	5	6	1	0.9180	8.0	5.00
4	7	8	1	0.8750	8.9	5.50
5	9	10	1	0.7230	12.9	8.00

	Data Tabulation				
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)
1.0031	0.6975	1.4195	0.9956	0.6924	0.8823
0.9989	0.9727	2.0075	0.9915	0.9655	1.2477
0.9968	1.0858	2.2444	0.9894	1.0778	1.3950
0.9956	1.1378	2.3539	0.9882	1.1294	1.4631
0.9903	1.3697	2.8390	0.9829	1.3595	1.7645
	m=	2.11196		m=	1.32248
QSTD	b=	-0.05043	QA [	b=	-0.03134
	r=	0.99998		r=	0.99998

	Calculation	15	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
<b>Qstd=</b> Vstd/ΔTime <b>Qa=</b> Va/ΔTime		Va/ΔTime	
For subsequent flow rate calculations:			
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: slope	

### RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

www.tisch-env.com

TOLL FREE: (877)263-7610 FAX: (513)467-9009

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00655 | Issue Date : 22 Apr 2024

# Internal Report Certificate of Calibration

Description : Equipment stated to be High volume air sampler.

Manufacturer: : Tisch Environmental, Inc.

Other information : N

Model No. TE-5170
Serial No. 10379

Test Period : 19 Apr 2024 to 19 Apr 2024

Test Requested : Performance checking for High volume air sampler

Test Method : According to manufacturer instruction manual and internal method.

Test conditions : Environmental temperature: 20-35 degree Celsius

Relative Humidity: 35-85%

Test Result : Refer to the test result(s) on page 2.

Remark : The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit

Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk

:



Report No. : 00655 | Issue Date : 22 Apr 2024

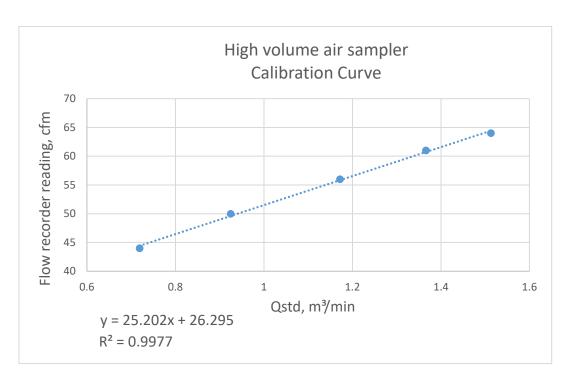
# Internal Report Certificate of Calibration

Measuring equipment

Description	Calibration Orifice
Manufacturer	Tisch Environmental, Inc.
Model No.	TE-5025A
Serial No.	3864

Test Result

Qstd, Actual flow rate, m³/min	1.513	1.366	1.172	0.925	0.719
Flow recorder reading, cfm	64	61	56	50	44
Pressure, mm Hg	757				
Temperature, K	303				



Note : The coefficient of determination (R<sup>2</sup>) of the calibration curve greater than 0.99 after a 5-point calibration, the high volume air sampler complies with the specified requirements and deemed acceptable for use.

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00715 Issue Date : 21 Jun 2024

Application No. : HP00577

**Certificate of Calibration** 

Applicant : Ka Shing Facility Management Limited

Flat C, 14/F, Jing Ho Industrial Building,

78-84 Wang Lung Street, Tsuen Wan, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Dust Meter.

Manufacturer: : Met One Instruments

Other information : Model No. Aerocet 831

Serial No. E11304

Date Received : 12 Jun 2024

Test Period : 17 Jun 2024 to 21 Jun 2024

Test Requested : Performance checking for Dust Meter

Test Method : According to manufacturer instruction manual and internal method.

Test conditions : Environmental temperature: 20-35 degree Celsius

Relative Humidity: 35-85%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit

Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00715 Issue Date : 21 Jun 2024

Application No. : HP00577

# **Certificate of Calibration**

Measuring equipment

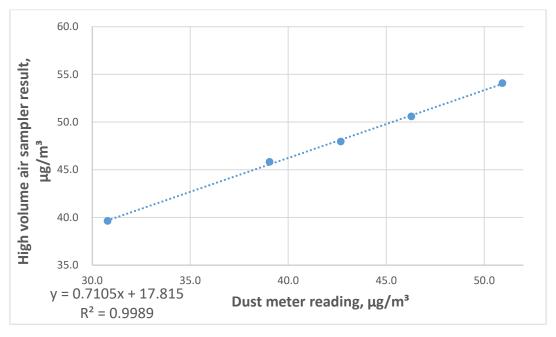
Description	High volume air sampler
Manufacturer	Tisch Environmental, Inc.
Model No.	TE-5170
Serial No.	10379

Date of Calibration : 17 Jun 2024 to 21 Jun 2024

Date of Recommended Re-Calibration : 21 Aug 2024

Test Result : 1 hour Total suspended particulate (TSP)

Calibration Point	Average Dust Meter reading, μg/m³	High volume air sampler results, μg/m³
1	30.8	39.6
2	39.1	45.8
3	46.3	50.6
4	50.9	54.1
5	42.7	48.0



#### Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
  - 2. The coefficient of determination (R<sup>2</sup>) of the calibration curve greater than 0.99 after a 5-point calibration, the dust meter complies with the specified requirements and deemed acceptable for use.

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00799 Issue Date : 19 Aug 2024

Application No. : HP00669

**Certificate of Calibration** 

Applicant : Ka Shing Facility Management Limited

Flat C, 14/F, Jing Ho Industrial Building,

78-84 Wang Lung Street, Tsuen Wan, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Dust Meter.

Manufacturer: : Met One Instruments

Other information : Model No. Aerocet 831

Serial No. D12641

Date Received : 09 Aug 2024

Test Period : 13 Aug 2024 to 19 Aug 2024

Test Requested : Performance checking for Dust Meter

Test Method : According to manufacturer instruction manual and internal method.

Test conditions : Environmental temperature: 20-35 degree Celsius

Relative Humidity: 35-85%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit

**Laboratory Manager** 

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00799 Issue Date : 19 Aug 2024

Application No. : HP00669

# **Certificate of Calibration**

Measuring equipment

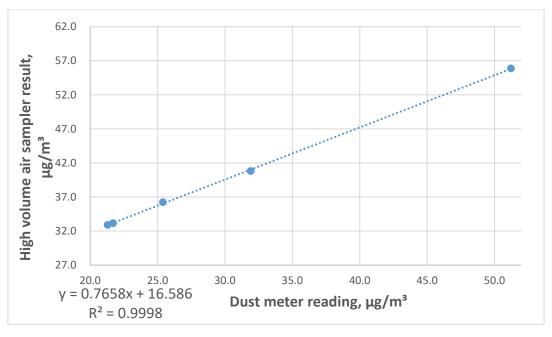
Description	High volume air sampler
Manufacturer	Tisch Environmental, Inc.
Model No.	TE-5170
Serial No.	10379

Date of Calibration : 13 Aug 2024 to 19 Aug 2024

Date of Recommended Re-Calibration : 19 Oct 2024

Test Result : 1 hour Total suspended particulate (TSP)

Calibration Point	Average Dust Meter reading, μg/m³	High volume air sampler results, μg/m³
1	51.2	55.9
2	25.4	36.2
3	31.9	40.8
4	21.7	33.2
5	21.3	32.9



Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
  - 2. The coefficient of determination (R<sup>2</sup>) of the calibration curve greater than 0.99 after a 5-point calibration, the dust meter complies with the specified requirements and deemed acceptable for use.

- End of report -

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NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Application No. : HP00516

**Certificate of Calibration** 

Applicant : Ka Shing Facility Management Limited

Flat C, 14/F, Jing Ho Industrial Building,

78-84 Wang Lung Street, Tsuen Wan, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Manufacturer: : BSWA Technology

Other information : Mo

Model No.	BSWA 308
Serial No.	610062
Microphone No.	610373

Date Received : 16 Apr 2024

Test Period : 23 Apr 2024 to 23 Apr 2024

Test Requested : Performance checking for Sound Level Meter

Test Method : According to manufacturer instruction manual and internal method.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00657 Issue Date : 24 Apr 2024

Application No. : HP00516

# **Certificate of Calibration**

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Date of Calibration : 23 Apr 2024

Date of Recommended Re-Calibration : 23 Apr 2025

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.0	± 0.0	± 1.5
114.0	114.1	+ 0.1	± 1.5

Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
  - 2. The indication value was obtained from the average of ten replicated measurement.

- End of report -



# Calibration Certificate

0039042

Customer:

Ka Shing Facilities Management Ltd. Flat C, 14/F, Jing Ho Industrial Building,

78-84 Wang Lung Street, Tsuen Wan,

Date of the recommended re-calibration:

N. T.

Object 1:

ST120 Sound Calibrator

Serial No. /Ref. No.:

210102628

Object 2:

Serial No. /Ref. No. :

Customer Code:

86254KA301

04/10/2022

Manufacturer:

Soundtek

Date of calibration:

04/10/2023

Certificate No.: Handle by:

0039042 E0002

Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
ſ	94.0dB	94.0dB	0.0dB	+/- 1.5dB	1
I	114.0dB	114.0dB	0.0dB	+/- 1.5dB	

# Measuring equipment

index	Calibrator / Master	Traceability
	Master Sound Meter, BSWA308 EN:ACL011	IEC61672
2	Precise Sound Calibrator, ST120, EQT029A	IEC60942

# **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

# Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

# Uncertainty

+/- 0.2 dB for probability not less than 95%.

# Conformity

- 1. The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3. The equipment being used in this calibration laboratory are regularly calibrated by laboratory according to ISO/IEC17025.
- 4. The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate.
- 5. The calibrations certificate may not be reproduced.

Measured value(s) within

the allowable deviation.

Performed by

Calibration Technician Mr. H. Y. Siu

Approved by

**Quality Manager** 

Mr. K.L. Ng

Appleone Calibration Laboratory Ltd.

Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR

Tel: +852 2370 4437 Fax: +852 2114 0393

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

# Environmental Team for Police Facilities in Kong Nga Po Impact Air Quality and Noise Monitoring Schedule August-2024

				1-Aug.	2-Aug	. 3-Aug.
						1-hr TSPx3
						(AM1, AM2)
						NM
						(NM9 to NM14)
4-Aug	. 5-Aug.	6-Aug.	7-Aug.	8-Aug.	9-Aug.	10-Aug.
					1-hr TSPx3	
					(AM1, AM2)	
					NM	
					(NM9 to NM14)	
11-Aug	. 12-Aug.	13-Aug.	14-Aug.	15-Aug.	16-Aug.	17-Aug.
				1-hr TSPx3		
				(AM1, AM2)		
				NM		
				(NM9 to NM14)		
18-Au	g. 19-Aug	. 20-Aug.	21-Aug	. 22-Aug	23-Aug.	24-Aug.
			1-hr TSPx3			
			(AM1, AM2)			
			NTM (			
			NM (NM9 to NM14)			
25-Aug	. 26-Aug.	27-Aug.	28-Aug.	29-Aug.	30-Aug.	31-Aug.
		1-hr TSPx3				
		(AM1, AM2)				
		DTM.				
		NM (NM9 to NM14)				
		(IMIT CO IMIT #)				

## Environmental Team for Police Facilities in Kong Nga Po Impact Air Quality and Noise Monitoring Schedule September-2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Sep		3-Sep	4-Sep	5-Sep	6-Sep	7-Sep
	1-hr TSPx3					1-hr TSPx3
	(AM1, AM2)					(AM1, AM2)
	(AMI, AMZ)					, , ,
	NM					
	(NM9 to NM14	)				
8-Sep	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep
	0 000	10 00p	11 000	12 000	1-hr TSPx3	11 000
					(AM1, AM2)	
					NM	
					(NM9 to NM14	)
15-Sep	16-Sep	17-Sep	18-Sep		20-Sep	21-Sep
				1-hr TSPx3		
				(AM1, AM2)		
				NM		
				(NM9 to NM14	)	
				(NM) CO NMIT	/	
22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep
			1-hr TSPx3			
			(AM1, AM2)			
			(Ant, Anz)			
			TD 4			
			NM			
			(NM9 to NM14	Y		
29-Sep	30-Sep					
23-0ер						
	1-hr TSPx3					
	(AM1, AM2)					
	NM					
	(NM9 to NM14	)				
		,				
	NM (NM9 to NM14	)				

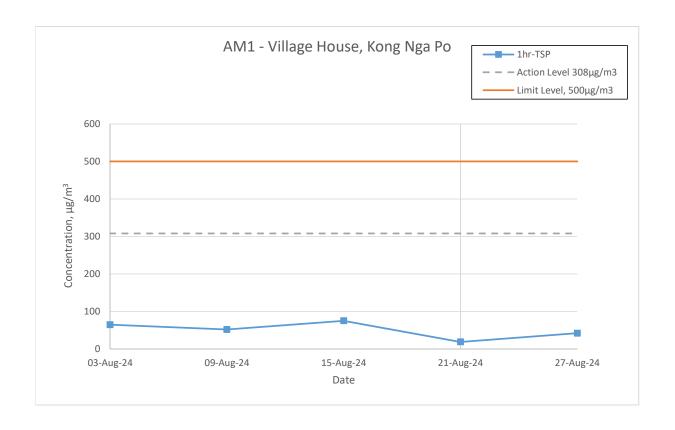
APPENDIX E AIR QUALITY MONITORING RESULTS AND GRAPHICAL PRESENTATION

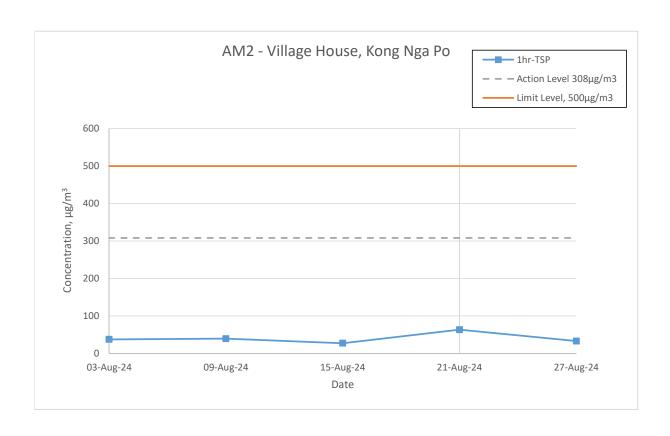
Appendix E - 1-hour TSP Monitoring Results

Location AM1 - Village House, Kong Nga Po						
Date	Time	Weather	Particulate Concentration (μg/m³)			
	9:32		65			
03-Aug-24	10:32	Sunny	57			
	11:32		54			
	9:33		52			
09-Aug-24	10:33	Sunny	45			
	11:33		55			
15-Aug-24	9:03		75			
	10:03	Cloudy	24			
	11:03		27			
	13:08		19			
21-Aug-24	14:08	Cloudy	22			
	15:08		39			
	13:07		42			
27-Aug-24	14:07	Sunny	49			
	15:07		51			
		Minimum	19			
		Maximum	75			
		Average	45			

Date	Time	Weather	Particulate Concentration (μg/m³)
	13:37		37
03-Aug-24	14:37	Sunny	63
	15:37		33
	13:18		40
09-Aug-24	14:18	Sunny	61
	15:18		54
15-Aug-24	13:04		27
	14:04	Cloudy	29
	15:04		24
	9:06		63
21-Aug-24	10:06	Cloudy	32
	11:06		25
	9:10		33
27-Aug-24	10:10	Sunny	40
	11:10		24
		Minimum	24
		Maximum	63
		Average	39

#### 1-hr TSP Concentration Levels





APPENDIX F NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

### Appendix F -Noise Monitoring Results

Location NM9 - Village House, Kong Nga Po									
Date	Weather	Wind Speed	Time	Un	it: dB(A) (5-r	nin)	Average	Limit Level	Baseline
Date	weather	(m/s)	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	$\mathbf{L}_{eq}$	$\mathbf{L}_{eq}$
				53.5	55.9	45.7			·
				50.7	51.7	46.0	1		
02 4 24	C	0.00	0.00	53.1	57.4	46.2	] [	75.0	FF 0
03-Aug-24	Sunny	0.00	9:00	51.1	54.0	46.0	52.5	75.0	55.9
				53.8	57.9	47.1	1		
				52.1	51.8	45.0	1		
				53.7	58.1	45.7			
				51.1	54.8	44.6			FF 0
00 Aug 24	Cuppy	0.00	9:07	52.1	55.6	44.5	] [] [	75.0	
09-Aug-24	Sunny	0.00	9.07	54.8	60.0	44.7	52.1	75.0	55.9
				49.0	52.6	43.8	1		
				48.3	51.1	43.5	1		
				61.6	59.5	47.2			55.9
				52.4	56.1	45.4	55.2		
15 Aug 24	Cloudy	y 0.02	9:03	51.3	54.4	46.0		75.0	
15-Aug-24	Cloudy			47.6	50.1	44.6			
				48.9	51.9	45.2			
				50.0	51.4	45.7			
				67.9	67.2	50.0			
				55.6	54.3	50.4			
21-Aug-24	Cloudy	0.00	15:12	52.4	54.7	50.0	61.0	75.0	55.9
21-Aug-24	Cloudy	0.00	13.12	57.4	58.8	49.1	01.0	73.0	33.3
				51.0	53.6	47.6			
				51.6	50.5	47.1			
_				57.9	57.4	47.1			
				55.5	55.5	46.1			
27-Aug-24	Sunny	0.36	9:01	50.2	52.4	46.9	53.8	75 N	55.9
27-Aug-24	Jullily	0.30	9.01	51.3	53.3	47.3	33.6	75.0	33.3
				50.3	53.3	46.5			
				50.8	53.6	47.0			

Location NM10 - Village House, Kong Nga Po									
D-4-	14/41	Wind Speed	T:	Uni	it: dB(A) (5-r	nin)	Average	Limit Level	Baseline
Date	Weather	(m/s)	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>	$L_{eq}$
				52.4	54.3	47.4			
				49.4	51.2	47.3	1	75.0	
03-Aug-24	Sunny	0.05	9:36	51.8	56.3	47.1	51.5		52.8
05-Aug-24	Sullily	0.05	9.30	49.5	51.1	46.7	7 31.3	/5.0	32.0
				50.2	52.3	47.2			
				53.9	55.1	47.9	1		
				60.6	59.7	43.7			
				52.5	56.3	44.9	1		52.8
09-Aug-24	Sunny	0.01	9:43	50.6	54.0	43.8	] [6]	75.0	
09-Aug-24	Sullily	0.01	9.43	51.8	54.1	43.6	56.1		
				54.8	61.4	44.9			
				57.2	52.8	45.4	1		
				48.7	50.8	45.4			52.8
				51.4	55.4	45.2	]		
15-Aug-24	Cloudy	0.04	9:36	50.2	53.3	45.2	50.4 I /5	75.0	
13-Aug-24	Cloudy	loudy 0.04	9:36	51.6	55.1	45.5		73.0	
				49.7	51.8	46.2			
				49.9	51.6	46.5			
				51.2	53.6	48.0			
				64.1	55.1	49.4			
21-Aug-24	Cloudy	0.02	15.45	52.3	54.4	49.9	66.6	75.0	53.0
21-Aug-24	Cloudy	0.02	15:45	52.3	54.4	49.2	] 00.0	/3.0	52.8
				53.9	54.5	49.9	1		
				73.8 61.9	61.9	34.7			
				50.3	52.9	46.0			
				51.6	53.8	46.9			
27-Aug-24	Sunny	0.00	9:41	51.0	53.5	46.7	51.1	75.0	52.8
27-Aug-24	Summy	0.00	9.41	52.9	56.4	46.8	] 51.1	/5.0	52.8
				50.9	52.9	47.7			
			1	48.9	51.1	46.2	1		

Location NM11 - Village House, Kong Nga Po									
Date	Weather	Wind Speed	Time	Uni	it: dB(A) (5-r	nin)	Average	Limit Level	Baseline
Date	weather	(m/s)	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>	L <sub>eq</sub>
				63.9	59.6	48.1			46.4
			10.16	49.6	52.2	47.5	1		
02 4 24	C	0.01		49.2	50.5	47.4	56.8		
03-Aug-24	Sunny	0.01	10:16	48.2	48.8	46.9	30.8	75.0	
				49.1	49.3	46.9	1		
				48.0	49.6	46.5			
				50.3	51.6	47.7			
			10:26	49.2	49.8	46.8			46.4
09-Aug-24	Sunny	0.63		51.2	50.5	47.6	51.2	75.0	
03-Aug-24	Jullily	iny 0.63		49.6	51.3	47.6			
				53.1	55.8	48.5			
				52.2	54.9	49.1			
		0.08	10:17	53.1	54.0	46.9			46.4
				49.8	50.2	46.5	54.4		
15-Aug-24	Cloudy			49.0	49.9	46.5		75.0	
13-Aug-24	Cloudy			60.0	53.6	47.3		75.0	
				52.0	53.3	46.1			
				50.1	50.9	47.2			
				52.5	52.1	48.5			
				50.9	52.8	48.3			
21-Aug-24	Cloudy	0.03	13:56	55.1	60.2	47.7	52.7	75.0	46.4
21-Aug-24	Cloudy	0.03	13.30	52.9	54.8	48.2	32.7	75.0	40.4
				51.4	52.9	48.1			
				52.3	54.8	48.8			
				59.4	51.2	47.0			
				48.2	49.5	46.7			
27-Aug-24	Sunny	0.14	10:19	53.0	49.8	47.4	54.0	75.0	46.4
27-Aug-24	Julily	0.14	10:19	50.7	51.5	49.3	] 54.0	/ 5.0	40.4
				50.0	51.4	48.0	]		
				51.8	52.5	48.5			

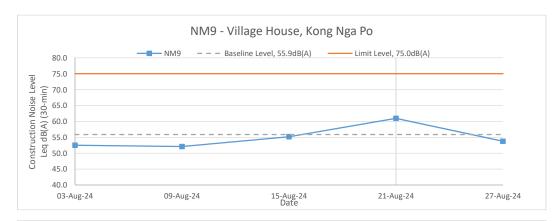
Location NM12 - Village House, Kong Nga Po									
5		Wind Speed		Uni	it: dB(A) (5-n	nin)	Average	Limit Level	Baseline
Date	Weather	(m/s)	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>	L <sub>eq</sub>
				55.5	53.1	44.2			
				51.1	54.0	45.7			547
02 4 24	Cummu	0.26	13:15	58.4	65.1	45.7	61.8	75.0	
03-Aug-24	Sunny	0.36	15.15	52.0	52.7	42.6	01.0	/5.0	54.7
				68.1	72.6	46.6	1		
				61.2	58.9	44.8	1		
				58.9	56.0	34.1			
				56.4	56.8	55.0	1		54.7
00 4 24	Cummu	0.00	12.02	57.5	56.5	54.6	] <sub>[C 2</sub>	75.0	
09-Aug-24	Sunny	0.09	13:03	54.7	55.5	54.2	56.2		
				54.0	55.3	42.3			
				53.0	53.6	42.9	1		
				62.4	58.4	53.6			
		udy 0.04		57.0	57.7	56.5			
15-Aug-24	Cloudy		14:46	57.3	58.0	56.7	59.5	75.0	54.7
13-Aug-24				57.0	57.6	56.4		75.0	34.7
				61.8	58.0	56.5			
				57.9	58.5	57.5			
				56.8	50.7	49.5			
				50.1	50.6	49.7			
21-Aug-24	Cloudy	0.00	10:44	50.3	50.9	49.8	52.4	75.0	54.7
21-Aug-24	Cloudy	0.00	10.44	50.7	51.4	50.1	32.4	73.0	34.7
				51.1	51.9	50.4			
				50.4	51.1	49.9			
				64.2	65.4	62.7			
				65.1	65.2	62.5			
27-Aug-24	Sunny	0.01	13:00	64.6	65.6	62.8	66.5	75.0	54.7
27-Aug-24	Julily	0.01	13:00	70.1	73.3	64.2		75.0	J4./
				66.9	70.2	63.0	]		
				64.2	65.6	60.1			

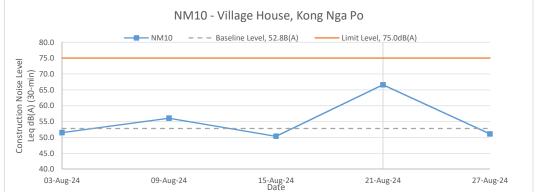
Location NM1	13 - Village	House, Kong N	да Ро						
Date	Date Weather Wind Speed Time Unit: dB(A) (5-min)							Limit Level	Baseline
		(1175)		L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>	L <sub>eq</sub>
				48.6	49.7	46.8			61.3
				50.0	50.4	46.5			
03-Aug-24	Sunny	0.48	10:49	49.6	50.6	48.3	49.6	75.0	
03-Aug-24	Julliy	0.46	10.49	50.3	51.4	48.4	49.0	/3.0	01.5
				49.3	50.4	47.9			
				49.3	50.8	47.8			
				50.2	51.2	48.5			61.3
				49.6	50.5	48.0		75.0	
09-Aug-24	Sunny	0.00	11:04	49.2	49.9	47.7	49.3		
09-Aug-24	Summy			48.1	49.0	46.4			
				49.3	50.6	47.6			
				49.2	49.8	47.3			
				47.2	47.8	45.7			
		udy 0.00	10:50	50.4	53.1	45.8			
15-Aug-24	Cloudy			53.5	56.2	47.0	51.0	75.0	61.3
13-Aug-24				48.7	49.7	46.9	] 31.0		
				52.1	50.4	46.5			
				51.2	51.8	47.8			
				58.5	58.9	49.1			
				53.7	54.5	49.2			61.3
21-Aug-24	Cloudy	0.01	13:15	50.7	52.1	48.2	53.8	75.0	
21-Aug-24	Cloudy	0.01	15.15	51.4	52.1	47.6	] 33.6	/3.0	01.5
				51.0	52.4	48.1			
				50.1	51.7	47.6			
				57.8	59.5	48.5			
				59.7	60.4	59.1			
27-Aug-24	Sunny	0.00	10:55	59.9	60.3	59.1	59.1	75.0	61.3
27-Aug-24	Suring	0.00	10.55	59.2	59.8	58.7	7 29.1	/5.0	01.3
				59.3	59.9	58.8			
				58.6	60.4	49.4			

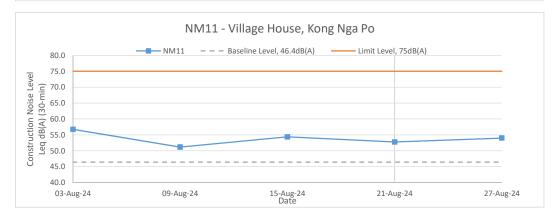
Location NM14 - Village House, near Man Kam To Road									
D-4-	Weather	Wind Speed	Time	Uni	it: dB(A) (5-n	nin)	Average	Limit Level	Baseline
Date	weather	(m/s)	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	$L_{eq}$	$\mathbf{L}_{eq}$
			13:54	56.6	61.7	46.6		75.0	59.6
				50.7	53.4	44.7			
03-Aug-24	Sunny	0.15		51.2	54.0	45.9	65.4		
05-Aug-24	Sullily	0.15	15.54	53.4	58.9	45.1	05.4	75.0	39.0
				51.2	54.4	45.8			
				73.0	54.9	44.1			
				56.8	52.0	46.8			
			13:51	47.6	48.5	46.5			59.6
09-Aug-24	Sunny	0.00		49.8	50.3	48.4	53.5	75.0	
03-Aug-24	Sunny	0.00		50.7	52.1	49.3	33.5		
				56.5	61.0	49.5			
				51.9	52.2	49.9			
		oudy 0.02	15:35	63.6	66.3	59.0			
				64.9	61.3	58.2			
15-Aug-24	Cloudy			58.3	58.7	58.0	61.3	75.0	59.6
13-Aug-24				58.2	58.8	57.8		75.0	
				58.2	58.8	57.7			
				58.1	58.7	57.6			
				56.2	50.6	49.8			
				50.1	50.5	49.9			
21-Aug-24	Cloudy	0.02	11:25	50.1	50.4	49.8	51.9	75.0	59.6
21-Aug-24	Cloudy	0.02	11.23	50.1	50.5	49.8	31.9	73.0	39.0
				50.0	50.3	49.7			
				50.1	50.5	49.7			
				70.6	72.6	66.4		_	
				70.3	71.6	67.6			
27-Aug-24	Sunny	0.02	12:41	65.7	68.6	59.6	60.6	75.0	59.6
27-Aug-24	Sullily	0.02	13:41	70.1	72.2	67.1	69.6	/5.0	ס.פכ
				70.4	74.0	55.7			
				68.6	71.9	54.4			

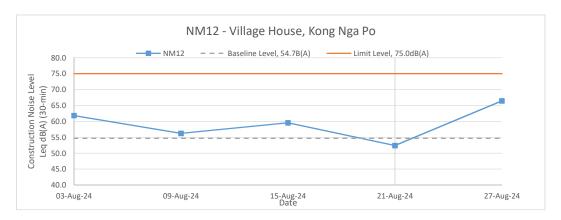
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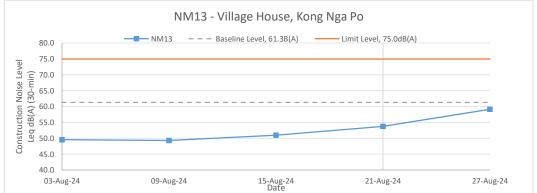
#### **Noise Levels**

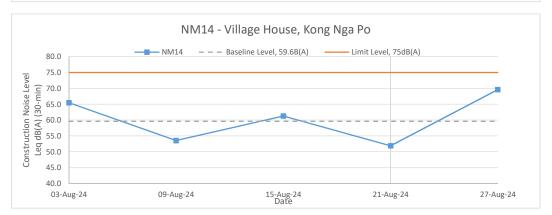












# APPENDIX G WEATHER CONDITION

Appendix G – General Weather Conditions during the Monitoring Period August 2024

Date	Mean				Mean Dew Point	Mean Relative	Mean Amount	Total
August	Pressure (hPa)	Maximum (deg. C) Mean (deg. C) (deg. C)		Temperature (deg. C)	Humidity (%)	of Cloud (%)	Rainfall (mm)	
1	1008.2	32.9	30.2	28.2	26.2	79	79	2.3
2	1007.8	31.5	29.8	28.2	26.1	81	72	0.4
3	1008.7	33.3	30.4	28.7	25.6	76	27	-
4	1007.8	34.2	30.7	28.3	25.7	76	22	-
5	1005.7	35.4	31.8	29.3	26.9	76	59	-
6	1005.4	34.9	30.6	26.6	26.3	78	71	10.3
7	1006.5	33.7	30.7	28.6	26.5	79	70	-
8	1006.7	33.2	30.7	29.3	26.1	77	57	-
9	1005.6	33	30.4	28.7	25.7	76	70	-
10	1004.1	32.7	30.5	29	26.5	79	88	Trace
11	1003.1	32	30.3	29.2	26.6	81	82	-
12	1004.1	31.8	29.2	26	26.3	85	88	20.9
13	1006	33.4	29.7	28	26.3	82	88	5
14	1006.3	30.5	29.2	28.2	25.7	82	88	0.1
15	1005.2	29.9	27.7	26	25.5	88	88	8
16	1005.1	29.5	27.7	26.5	24.8	84	85	0.4
17	1006.7	28.8	27.3	25.2	25.8	92	93	116.2
18	1006.1	30.3	28.3	25.8	25.8	87	89	32.5
19	1004.5	28.8	28	26.9	25.8	88	90	19.3
20	1006.3	28.5	27.5	25.6	25.6	89	95	11.4
21	1009.8	28.2	27.1	26.3	24.9	87	89	3.9
22	1010.4	32	28.9	26.6	25.7	83	87	-
23	1010.5	31.4	29.3	28	25.8	82	88	-
24	1009.3	34.3	30.2	28.1	25.6	77	79	-
25	1008	33.7	30.1	28	25	75	47	-
26	1006.7	33.8	30.3	28.4	25.2	75	41	-
27	1005.4	34.1	30.6	28.5	25.4	74	48	-
28	1003.5	34.8	30.7	27.6	25.6	75	78	Trace
29	1004.6	33.6	30.5	28.3	25.6	76	73	Trace
30	1006.9	33.7	30.3	27.9	26.9	82	80	23.3
31	1008.2	32.2	29.6	27.8	26.4	84	86	7.5
Mean/Total	1006.5	32.3	29.6	27.7	25.9	81	74	261.5
Normal*	1005.2	31.3	28.7	26.7	25.1	81	70	453.2
					v Hong Kong Oh		/0	455.4

<sup>\*</sup> The above information was extracted from the daily weather summary by Hong Kong Observatory.

# APPENDIX H ECOLOGICAL MONITORING RESULTS

Post-transplantation monitoring records for transplanted flora species (August 2024)

# Contract No.: SS K509 Design and Construction of Kong Nga Po Police Training Facilities

# Monitoring and Maintenance Works Report

INSPECTION DATE: 30 AUGUST 2024 REPORT DATE: 02 SEPTEMBER 2024

> PREPARED BY: Lau Siu Yeung, Andy (UKAA PR5206)

> > Version: 00

# Template of Post-transplantation Monitoring Checklist Design and Construction of Kong Nga Po Police Training Facilities

						Audit Ref. No	o
Contra	act	SS K509					
Inspect	ed By	Lau Siu Yeung (Andy)	Inspection Date Time Period			8/2024 0 to 12:00	
Part A Conditi Tempe Humid Wind	ion rature	Sunny Fine Overcast Drizzle  30.5 °C  High (RH>90%) Moderate (90%>RH>50%)  Calm Light Breeze Strong	Rain Low (F	St	orm [	Hazy	
Part B		N/A (	or not observed	Yes	No	Follow-up N/C	Remarks
1,	Cvcadfer	rn Brainea insignis					
1.1	Are the p	lants' health conditions satisfactory?					1
1.2	Are trans	planted plants on site protected carefully?			$\Box$		]
1.3	Are the te	emporary protective fence properly erected and maintained?			$\Box$		- ———— ]
1.4	Are the p	lant protection zone set 1m from the plants?			$\Box$		]
1.5	Are all gr	assed and planted area kept free from weeds/unwanted plants?					]
1.6	Is compac	ction of the soil avoided for the plants?			$\overline{\Box}$		- 1
1.7		/ unwanted material removed within the planting area?			$\overline{\Box}$		 1
1.8		oment or stockpile placed outside the protection zone?			$\Box$		- <u></u> -
1.9	Are soil,	debris or construction materials deposited around and against the plant as this causes bark damage avoided?		$\square$			]
1.10	Are fixing	gs driven into plants avoided?		abla			1
1.11	Are the p	lants used for anchoring or winching purposes or for the display of ided?					]
1.12		re lit below the branches and petrol, oil or caustic substances stored lants avoided?		$\triangle$			]
1.13	Are all pl	ants kept free from pest, disease or fungal infection?					]
1.14	Are there	enough area for growth and development of plant roots?					]
1.15a	Is exposu	re of plant roots avoided?					<u> </u>
1.15b	If not, we	ere broken off or rotting of roots avoided?		$\square$			]
	x 11 m		or not observed	Yes	No	Follow-up N/C	Remarks
2. 2.1		resses Spiranthes sinensis lants' health conditions satisfactory?					1
2.2	•	planted plants on site protected carefully?					<u>. ————</u> 1
2.3	•	emporary protective fence properly erected and maintained?					, 1
2.4		lant protection zone set 1m from the plants?					<u>. ————</u> 1
2.5	_	assed and planted area kept free from weeds/unwanted plants?					. <u> </u>
2.6	_	ction of the soil avoided for the plants?		<u>~</u>			1 ———— 1
2.7	_	/ unwanted material removed within the planting area?		$\overline{\sim}$			 1

# Template of Post-transplantation Monitoring Checklist Design and Construction of Kong Nga Po Police Training Facilities

	I	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
2.8	Are equipment or stockpile placed outside the protection zone?						
2.9	Are soil, debris or construction materials deposited around and against th trunk of a plant as this causes bark damage avoided?	е	$\Box$				
2.10	Are fixings driven into plants avoided?		$\triangle$				
2.11	Are the plants used for anchoring or winching purposes or for the display signs avoided?	of	$\triangle$				
2.12	Are the fire lit below the branches and petrol, oil or caustic substances stonear the plants avoided?	pred	$\triangle$				
2.13	Are all plants kept free from pest, disease or fungal infection?						
2.14	Are there enough area for growth and development of plant roots?		$\triangle$				
2.15a	Is exposure of plant roots avoided?		$\square$				
2.15b	If not, were broken off or rotting of roots avoided?		$\triangle$				
<u></u>	Incense Trees Aquilaria sinesis	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
3.1	Are the trees's health conditions satisfactory?						
3.2	Are transplanted trees on site protected carefully?						
3.3	Are the temporary protective fence properly erected and maintained?						
3.4	Are the tree protection zone set 1m from the trees?						
3.5	Are all grassed and planted area kept free from weeds/unwanted plants?						
3.6	Is compaction of the soil avoided for the trees						
3.7	Are litter/ unwanted material removed within the planting area?						
3.8	Are equipment or stockpile placed outside the protection zone?						
3.9	Are soil, debris or construction materials deposited around and against th trunk of a tree as this causes bark damage avoided?	е					
3.10	Are fixings driven into trees avoided?						
3.11	Are the trees used for anchoring or winching purposes or for the display osigns avoided?	of					
3.12	Are the fire lit below the branches and petrol, oil or caustic substances stonear the trees avoided?	ored					
3.13	Are all trees kept free from pest, disease or fungal infection?						
3.14	Are there enough area for growth and development of tree roots?						
3.15a	Is exposure of tree roots avoided?						
3.15b	If not, were broken off or rotting of roots avoided?						
3.16	Are wounds/mechanical injuries avoided on tree trunk?					A	
3.17	Are leaning of trees avoided?						
3.18	Are dead/detached branches avoided?						
3.19	Are decay/cavity avoided on tree trunks?						

#### Template of Post-transplantation Monitoring Checklist Design and Construction of Kong Nga Po Police Training Facilities

No are not observed.  Is the situation in item							
Is the situation in item	Part C	Follow-up for the Previ	ous Site Audit on Date:		)		
Is the situation in item improved rectified?  Is the situation in tem improved rectified?  Is the situation in item improved rectified?  Is the situation of item improved rectified?  Is the situation in item in item improved rectified?  Is the situation in item in item improved rectified?  Is the situation in item improved rectified?  Is the				N/A or not observed	Yes No	Follow-up N/C	Remarks
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Is the situation in item	2.				HH	HH	
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Is the situation in item	l.				H	H	
Is the situation in itemimproved rectified?	5.				$\vdash\vdash\vdash$	H	
Is the situation in item	ó. -	·	-		HH	HH	
Is the situation in itemimproved/rectified?	7.				H	+	
emarks/Observations Very hot weather condition affecting the growth of Ladies Tressess.  Signatures: Contractor's Reputations  Naparticor's Rep.	3.			$\vdash$	H	+	
Signatures:  Contractor's Representative  Supervisor's Rep.	),				H	H	
Very hot weather condition affecting the growth of Ladies Tressess.  Signatures:  Contractor's Republicatingse  Supervisor's Rep.	10.	Is the situation in item	improved/rectified?			ш ш	
Very hot weather condition affecting the growth of Ladies Tressess.  Signatures:  Contractor's Republicatingse  Supervisor's Rep.		Le (Observed in the					
Signatures: Contractor's Repuberdusjae Supervisor's Rep.			11.02 GC 02		· -		
Contractor's Representative  Supervisor's Rep.	/er	y hot weather c	ondition affecting	the growth of La	adies Tres	sess.	
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Contractor's Representative  Supervisor's Rep.							
Contractor's Representative  Supervisor's Rep.							
		Signatures:					
(Name: Lau Siu Yeung ) (Name: )		Contractor's Representative		Super	risor's Rep.		
(Name: Lau Siu Yeung ) (Name: )		- The state of the					
		(Name: Lau Siu Yeung	g )	(Name (Date:	:	)	

Contract No.: SS K509

Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest

Inspection Date: 30/8/2024

Tree/Plant/ Colony No.	Number of Individuals	Species Name	Form (Good/Fair/Poor)	Health (Good/Fair/Poor)	Remark
Colony No.	01	Brainea insignis	F	F	Young leaves observed
	02	Brainea insignis	F	F	Young leaves observed
	03	Brainea insignis	F	F	Young leaves observed
	04	Brainea insignis	F	F	Young leaves observed
C-0001	05	Brainea insignis	F	F	Young leaves observed
	06	Brainea insignis	F	F	Young leaves observed
	07	Brainea insignis	F	F	Young leaves observed
	08	Brainea insignis	F	F	Young leaves observed
	01	Brainea insignis	F	F	Young leaves observed
	02	Brainea insignis	F	F	Young leaves observed
	03	Brainea insignis	F	P	Young leaves observed
C 0002	04	Brainea insignis	F	P	Young leaves observed
C-0002	05	Brainea insignis	F	F	Young leaves observed
	06	Brainea insignis	F	F	Young leaves observed
	07	Brainea insignis	F	F	Young leaves observed
	08	Brainea insignis	F	F	Young leaves observed
C-0003	01	Brainea insignis	F	F	Young leaves observed
					Young leaves at base; Dry out
	0.1	D	D.	D	caused by bushfire initially
	01	Brainea insignis	P	P	outside site boundary and high
					temperature on 2 Feb 2021
	02	Brainea insignis	F	F	Young leaves observed
	03	Brainea insignis	F	F	Young leaves observed
	04	Brainea insignis	F	F	Young leaves observed
	05	Brainea insignis	F	F	Young leaves observed
	06	Brainea insignis	F	F	Young leaves observed
	07	Brainea insignis	F	F	Young leaves observed
	08	Brainea insignis	F	F	Young leaves observed
					Dry out caused by bushfire
	09	Brainea insignis	P	P	initially outside site boundary
		Drainea insignis	1	1	and high
					temperature on 2 Feb 2021
	10	Brainea insignis	F	P	Young leaves at base
	11	Brainea insignis	F	F	Young leaves observed
	12	Brainea insignis	F	P	Young leaves observed
C-0004					Stem not found
					Dry out caused by bushfire
	13	Brainea insignis	-	-	initially outside site boundary
					and high temperature on 2 Feb
	1.4	D · · ·	F	F	2021
	14	Brainea insignis	F	F	Young leaves observed Young leaves at base; Dry out
	15	Brainea insignis	P	P	caused by bushfire initially outside site boundary and high
					temperature on 2 Feb 2021
					Dry out caused by bushfire
					initially
	16	Brainea insignis	P	P	outside site boundary and high
					temperature on 2 Feb 2021
	17	Brainea insignis	P	P	Young leaves observed
		1			Burned by bushfire initially
	18	Brainea insignis	-	-	outside the site boundary on 2
					Feb 2021.
	19	Brainea insignis	F	P	
	20	Brainea insignis	F	F	Young leaves observed

Contract No.: SS K509

Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest

Inspection Date:

30/8/2024

Tree/Plant/	Number of	Species Name	Form	Health	Remark
Colony No.	Individuals		(Good/Fair/Poor)	(Good/Fair/Poor)	
C-0005	01	Brainea insignis	F	F	Young leaves observed
	02	Brainea insignis	F	F	Young leaves observed
	03	Brainea insignis	F	F	Young leaves observed
	04	Brainea insignis	F	F	Young leaves observed
	05	Brainea insignis	F	P	Young leaves observed
	06	Brainea insignis	F	F	Young leaves observed
	07	Brainea insignis	F	F	Young leaves observed
C-0006	01	Brainea insignis	F	F	Young leaves observed
C-0007	01	Brainea insignis	F	F	Young leaves observed
	02	Brainea insignis	F	P	-
C-0008	01	Brainea insignis	F	F	Young leaves observed
	02	Brainea insignis	F	F	Young leaves observed
	03	Brainea insignis	P	P	Young leaves observed
	04	Brainea insignis	F	F	Young leaves observed
	05	Brainea insignis	F	F	Young leaves observed
	06	Brainea insignis	F	Р	<del>-</del>
	07	Brainea insignis	F	P	Young leaves at base
C-0009	01	Brainea insignis	F	F	Young leaves observed
C-0010	01	Brainea insignis	F	F	Young leaves observed
	02	Brainea insignis	F	F	Young leaves observed
	03	Brainea insignis	F	F	Young leaves observed
C-0011	01	Brainea insignis	P	P	Dry out caused by bushfire
					initially outside site boundary and high temperature on 2 Feb 2021
	02	Brainea insignis	F	P	ı
	03	Brainea insignis	P	P	Young leaves at base
	04	Brainea insignis	F	F	Young leaves at base
	05	Brainea insignis	F	P	Young leaves at base
	06	Brainea insignis	F	F	Young leaves at base
	07	Brainea insignis	P	P	Young leaves at base
	08	Brainea insignis	F	F	Young leaves observed
	09	Brainea insignis	P	P	_
	10	Brainea insignis	F	F	Young leaves observed
	11	Brainea insignis	F	F	Young leaves observed
	12	Brainea insignis	P	P	<u>-</u>
	13	Brainea insignis	F	F	Young leaves observed







C-0001(Patch)\_03





C-0001(Patch)\_05





C-0001(Patch)\_07





C-0002(Patch)\_01





C-0002(Patch)\_03





C-0002(Patch)\_05





C-0002(Patch)\_07







C-0004(Patch)\_01





C-0004(Patch)\_03

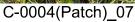




C-0004(Patch)\_05











C-0004(Patch)\_09





C-0004(Patch)\_11





C-0004(Patch)\_13





C-0004(Patch)\_15











C-0004(Patch)\_19





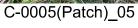




C-0005(Patch)\_03











C-0005(Patch)\_07



C-0006



C-0007(Patch)\_01





C-0008(Patch)\_01





C-0008(Patch)\_03





C-0008(Patch)\_05







C-0009



C-0010(Patch)\_01





C-0010(Patch)\_03









C-0011(Patch)\_03





C-0011(Patch)\_05





C-0011(Patch)\_07





C-0011(Patch)\_09





C-0011(Patch)\_11





C-0011(Patch)\_13

Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest

Inspection Date: 30/8/2024

Tree/Plant/ Colony No.	Species Name	Form (Good/Fair/Poor)	Health (Good/Fair/Poor)	Remark
L-0001	Spiranthes sinensis	-	-	Not observed
L-0002	Spiranthes sinensis	-	-	Not observed
L-0003	Spiranthes sinensis	-	-	Leaf observed
L-0004	Spiranthes sinensis	-	-	Leaf observed
L-0005	Spiranthes sinensis	-	-	Not observed
L-0006	Spiranthes sinensis	-	-	Not observed
L-0007	Spiranthes sinensis	-	-	Not observed
L-0008	Spiranthes sinensis	F	F	Leaf observed
L-0009	Spiranthes sinensis	-	-	Not observed
L-0010	Spiranthes sinensis	-	-	Not observed
L-0011	Spiranthes sinensis	-	-	Not observed
L-0012	Spiranthes sinensis	-	-	Not observed
L-0013	Spiranthes sinensis	-	-	Not observed
L-0014	Spiranthes sinensis	P	P	Leaf observed
L-0015	Spiranthes sinensis	-	-	Leaf observed
L-0016	Spiranthes sinensis	-	-	Not observed
L-0018	Spiranthes sinensis	F	F	Leaf observed
L-0019	Spiranthes sinensis	_	-	Not observed
L-0020	Spiranthes sinensis	_	_	Not observed
L-0021	Spiranthes sinensis	_	-	Not observed
L-0022	Spiranthes sinensis	F	F	Leaf observed
L-0023	Spiranthes sinensis	-	-	Not observed
L-0024	Spiranthes sinensis	P	P	Leaf observed
L-0025	Spiranthes sinensis	-	-	Not observed
L-0026	Spiranthes sinensis	-	-	Not observed
L-0027	Spiranthes sinensis	-	-	Not observed
L-0028	Spiranthes sinensis	-	-	Not observed
L-0029	Spiranthes sinensis	-	-	Not observed
L-0030	Spiranthes sinensis	-	-	Not observed
L-0031	Spiranthes sinensis	F	F	Leaf observed
L-0032	Spiranthes sinensis	-	-	Not observed
L-0033	Spiranthes sinensis	-	-	Not observed
L-0034	Spiranthes sinensis	-	-	Not observed
L-0035	Spiranthes sinensis	-	-	Not observed
L-0036	Spiranthes sinensis	-	-	Not observed
L-0037	Spiranthes sinensis	F	F	Leaf observed
L-0038	Spiranthes sinensis	P	P	Leaf observed
L-0039	Spiranthes sinensis	-	-	Not observed
L-0040	Spiranthes sinensis	-	-	Not observed
L-0041	Spiranthes sinensis	-	-	Not observed
L-0042	Spiranthes sinensis	-	-	Not observed

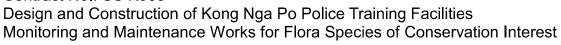






L-0003







L-0005





L-0007





L-0009





L-0011



Contract No.: SS K509
Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest



L-0013







L-0016



L-0018





L-0020





L-0022





L-0024





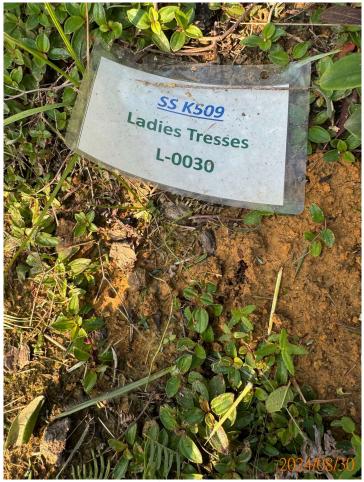
L-0026





L-0028





L-0030











L-0034





L-0036



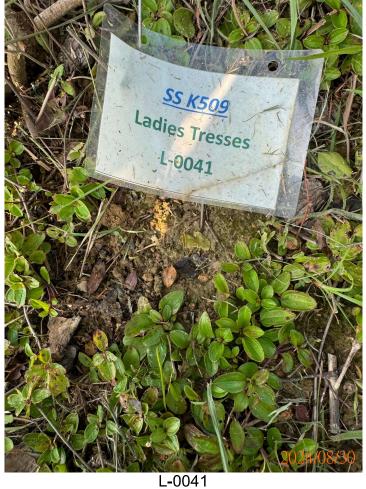


L-0038





L-0040





L-0042

Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest

#### Hong Da Landscaping Limited

Vegetation Maintenance Record Sheet (August 2024)

Description of Worls																Date		ĺ													
Description of Work	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Watering	Y		Y				Y		Y					Y								Y		Y		Y		Y		Y	i
Weeding																														Y	i
Fertilization																															i
Pest/Disease Control																															<u>i                                      </u>
Firming up of fence																															l
Installation of shaded net																															i
Mulching																															i
Inspection																														Y	i
Checking of Protection Zone																														Y	<u> </u>
Remarks	MH, R, H	МН, Н	МН, Н	МН, Н	МН, Н	MH, R, H	МН, Н	MH, R	MH, R, H	MH, R	MH, R	MH, R	RH,R	MH, R	MH, R	MH, R	MH, R	МН	МН	мн, н	МН										
	Public Holiday H-Hot D-Drizzle R-Rainy W-Windy RH-High Humidity MH-Medium Humidity						LH-I	ow H	umidi	ty																					



Grass cutting (1)





Replacement of protection fence (1)



# Post-transplantation Monitoring Checklist Police Facilities in Kong Nga Po

Contract	Provision of Environmental Team		
	Consultancy for Design and Construction		
	of Kong Nga Po Police Training Facilities		
	(Programme no. 279LP)		
Inspected By	ET	Inspection Date	27-8-2024
		· -	
Part A	Weather		
Condition	Sunny Fine Overcast Drizzle Rain Hazy		
Wind	Calm Light Breeze Strong		
Part B		N/A or Yes	NO Remarks
1 C <sub>3</sub>	rcadfern Brainea insignis	not obosivou	
1.1	Is the general well-being of the plants deemed satisfactory?		
1.2	Are appropriate measures being taken to ensure the careful protection of the transplanted plants on site?		
1.3	Has the temporary protective fence been correctly installed and is it being properly maintained?		
1.4	Has the plant protection zone been established at a distance of 1m from the plants as required?		
1.5	Are all areas covered with grass and plants consistently maintained free from weeds and unwanted vegetation?		
1.6	Are measures taken to prevent soil compaction and protect the plants?		
1.7	Is prompt removal of litter and unwanted materials maintained in the planting area?		
1.8	Are fixings being prevented from being driven into the plants?		
1.9	Are the plants being intentionally avoided for the purpose of anchoring, winching, or displaying signs?		
1.10	Are all plants consistently maintained free from pests, diseases, or fungal infections?		
1.11	Is there sufficient space provided for the growth and development of plant roots?		
1.12a	Is the exposure of plant roots being prevented?		
1.12b	If not, are broken or rotting roots being avoided?		
2 La	dies Tresses Spiranthes sinensis		
2.1	Is the general well-being of the plants deemed satisfactory?		
2.2	Are appropriate measures being taken to ensure the careful protection of the transplanted plants on site?		
2.3	Has the temporary protective fence been correctly installed and is it being properly maintained?		
2.4	Has the plant protection zone been established at a distance of 1m from the plants as required?		
2.5	Are all areas covered with grass and plants consistently maintained free from weeds and unwanted vegetation?		
2.6	Are measures taken to prevent soil compaction and protect the plants?		
2.7	Is prompt removal of litter and unwanted materials maintained in the planting area?		
2.8	Are fixings being prevented from being driven into the plants?		
2.9	Are the plants being intentionally avoided for the purpose of anchoring, winching, or displaying signs?		
2.10	Are all plants consistently maintained free from pests, diseases, or fungal infections?		
2.11	Is there sufficient space provided for the growth and development of plant roots?		
2.12a	Is the exposure of plant roots being prevented?		
2.12b	If not, are broken or rotting roots being avoided?		

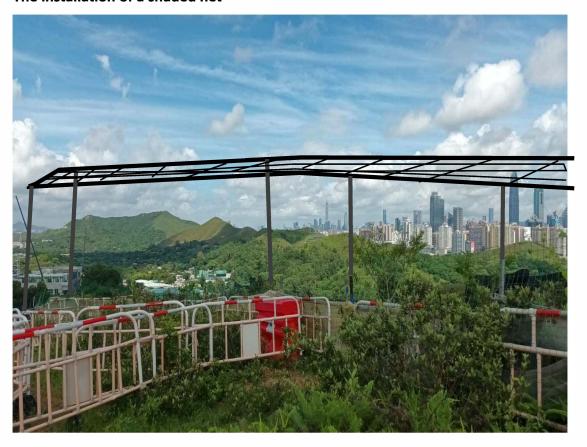
## **Advice/Observations**

- 1) Please refer to the guidelines on soil improvement issued by the Greening, Landscape and Tree Management Section (GLTMS) of the development bureau (2022) to apply to monitoring and maintenance of transplanted flora species.
- 2) Daily watering frequency is needed to keep the soil moist.
- 3) Installation of a shaded net is provided below.
- 4) The wild plants that are growing in undesirable areas should be removed.
- 5) The damaged Black Shade Net should be repaired or replaced with a new one.



IEC	ET	Contractor Representative
Name: Mr. Law Date	Name: Mr. Chow Date 27/8/2024	Name: Marian Kong Date

The installation of a shaded net





Remark: Non scale & Conceptual drawing

### APPENDIX I EVENT ACTION PLANS

## Appendix I:

Table I-1: Event / Action Plan for Air Quality

	ACTION									
EVENT	ET	IEC	PERMIT HOLDER	CONTRACTOR						
ACTION LEVE	L									
1. Exceedance for one sample	1. Identify source, investigatethe causes of exceedance and propose remedial measures;  2. Inform IEC,ER and Contractor;  3. Repeat measurement to confirm finding; and  4. Increase monitoring frequency to daily.	Check monitoring data submitted by ET;      Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice:  2. Amend working methods if appropriate.						
2. Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC, ER         andContractor;</li> <li>Advise the WKCDA on         theeffectiveness of the         proposed remedial         measure;</li> <li>Repeat         measurements to         confirm findings;</li> <li>Increase         monitoring         frequency to         daily;</li> <li>Discuss with IEC         and Contractor on         remedialactions         required;</li> <li>If exceedance continues,         arrange meeting with         IECand ER; and</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures; and</li> <li>Monitor Implementation of remedial measures.</li> </ol>	1. Confirm receipt of notification of failure in writing;  2. Notify Contractor; and 3. Ensure remedial measures properly implemented.	<ol> <li>Submit proposals for remedial to         ER within 3         working days of notification;</li> <li>Implement the agreed proposals; and</li> <li>Amend proposal if appropriate.</li> </ol>						

	ACTION									
EVENT	ET	IEC	PERMIT HOLDER	CONTRACTOR						
	8. If exceedance stops, cease additional monitoring.									
LIMIT LEVEL										
1.Exceedance for one sample	<ol> <li>Identify source,         investigate the causes         of exceedance and         propose remedial         measures;</li> <li>Inform ER, Contractor         and EPD;</li> <li>Repeat measurement to         confirm finding;</li> <li>Increase monitoring         frequency to daily; and</li> <li>Assess effectiveness of         Contractor's remedial         actions and keep IEC,         EPD and the ER         informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted byET;</li> <li>Check Contractor's working method;</li> <li>Discuss with         ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness ofthe proposed remedial measures; and</li> <li>Monitor the implementation of remedial measures.</li> </ol>	1. Confirm receipt ofnotification of failure in writing; 2. Notify Contractor;and 3. Ensure remedial measures properly implemented.	1. Take immediate actionto avoid further exceedance;  2. Submit proposals for remedial actions to IECwithin 3 working days of notification;  3. Implement the agreedproposals; and  4. Amend proposal if appropriate.						
2.Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, the ER,         Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to         confirm findings;</li> <li>Increase monitoring         frequency to daily;</li> <li>Carry out analysis of         Contractor's working         procedures to determine</li> </ol>	1. Check monitoring data submitted byET; 2. Check Contractor's working method; 3. Discuss amongst ER, ET, and Contractor on the potential remedial actions;	1. Confirm receipt ofnotification of failure in writing; 2. Notify Contractor; 3. In consultation with IEC, agree with the Contractor on theremedial measures to be implemented;	1. Take immediate action avoid further exceedance;  2. Submit proposals for remedial actions to IEC within 3 working days of notification;  3. Implement the agreedproposals;						

	ACTION										
EVENT	ET	IEC	PERMIT HOLDER	CONTRACTOR							
	possible mitigation to be implemented;  6. Arrange meeting with IEC, and ER to discuss the remedial actions to be taken;  7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and	4. Review Contractor's remedial actions whenever necessary to assuretheir effectiveness and advise the ER accordingly; and  5. Monitor implementation of remedial measures.	4. Ensure remedial measures properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the	4. Resubmit proposals if problem still not undercontrol; and 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.							
	8. If exceedance stops, cease additional monitoring.		Contractor to stopthat portion of work until the exceedances is abated.								

 $Abbreviations: ET-Environmental\ Team,\ IEC-Independent\ Environmental\ Checker$ 

**Table I-2: Event / Action Plan for Construction Noise** 

EVENT		ACT	TION	
	ET	IEC	PERMIT HOLDER	CONTRACTOR
Action Level	<ol> <li>Notify ER, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required; and</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	1. Review the monitoring data submitted by the ET;  2. Review the proposed remedial measures by the Contractor and advise ER; and  3. Advise the ER on the effectiveness of the proposed remedial measures.	1. Confirm receipt of notification of failure in writing;  2. Notify Contractor;  3. In consolidation with the IEC, agree with the Contractor on the remedial measure to be implemented: and  4. Supervise the implementation of remedial measure.	1. Submit noise mitigation proposals to IEC and ER; and 2. Implement noise mitigation proposals.
Limit Level	<ol> <li>Inform IEC, ER and Contractor and EPD;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase the monitoring frequency;</li> <li>Identify source and investigate the cause of exceedance;</li> <li>Carry out analysis of Contractor's working procedures;</li> <li>Discuss with the IEC, Contractor and ER on</li> </ol>	1. Discuss amongst the ER, ET, and Contractor on the potential remedial actions; and 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;	1. Confirm receipt of notification of failure in writing;  2. Notify the Contractor;  3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;  4. Supervise the implementation of remedial measures; and  5. If exceedance continues, consider	1. Take immediate action to avoid further exceedance;  2. Submit proposals for remedial actions to the IEC and ER within 3 working days of notification;  3. Implement the agreed proposals;  4. Submit further proposal if problem still not under control; and  5. Stop the relevant portion of works as

EVENT		ACT	TION	
	ET	IEC	PERMIT HOLDER	CONTRACTOR
	remedial measure		stopping the	determined by the ER
	required;		Contractor to	until the exceedance
	7. Assess effectiveness		continue working in	is abated.
	of Contractor's		that portion of work	
	remedial actions and		which causes the	
	keep IEC, EPD and		exceedance until	
	ER informed of the		the exceedance is	
	results; and		abated.	
	8. If exceedance stops,			
	cease additional			
	monitoring.			

 $Abbreviations: ET-Environmental\ Team,\ IEC-Independent\ Environmental\ Checker$ 

Table I-3: Event / Action Plan for Landscape and Visual Mitigation Measures

EVENT		ACT	TION	
	ET	IEC	PERMIT HOLDER	CONTRACTOR
Non-	Identify source. Inform	Check report.	Notify Contractor.	Amend working
conformity on	IEC and ER.	Check Contractor's	Ensure remedial	methods to prevent
one occasion	Discuss remedial actions	working method.	measures are properly	recurrence of
	with IEC, ER and	Discuss with ET and	implemented	nonconformity.
	Contractor.	Contractor on possible		Rectify damage and
	Monitor remedial	remedial measures.		undertake additional
	actions until rectification	Advise ER on		action necessary.
	has been completed.	effectiveness of		
		proposed remedial		
		measures.		
		Check implementation		
		of remedial measures.		
Repeated	Identify source.	Check monitoring	Notify Contractor.	Amend working
Nonconformity	Inform IEC and ER.	report. Check	Ensure remedial	methods to prevent
	Increase monitoring	Contractor's working	measures are properly	recurrence of
	frequency. Discuss	method.	implemented.	nonconformity.
	remedial actions with	Discuss with ET and		Rectify damage and
	IEC, ER and Contractor.	Contractor on possible		undertake additional
	Monitor remedial	remedial measures.		action necessary.
	actions until rectification	Advise ER on		
	has been completed.	effectiveness of		
	If non-conformity stops,	proposed remedial		
	cease additional	measures.		
	monitoring.	Supervise		
		implementation of		
		remedial measures.		

 $Abbreviations: ET-Environmental\ Team,\ IEC-Independent\ Environmental\ Checker$ 

### APPENDIX J SUMMARY OF EXCEEDANCE

# Appendix J: Exceedance Report

# (A) Exceedance Report for Air Quality

Environmental Monitoring	Parameter	No. of non-proje Exceedance	ct related	No. of Exceeda the Construction this Contract	Exceedance	
		Action Level	Limit Level	Action Level		recorded
Air Quality	1-hr TSP	0	0	0	0	0

### (B) Exceedance Report for Construction Noise

Environmental Monitoring	Parameter	No. of non-proje Exceedance	ct related	No. of Exceeda the Construction this Contract	Exceedance	
		Action Level	Limit Level	Action Level	Limit Level	recorded
Noise	Leq(30 min.) dB(A)	0	0	0	0	0

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA	EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Implementation	Location / Duration of		lementa Stages		Relevant Legislation &	Implementation Status
Ref.	Ref.		Measure & Main Concerns to address	Agent	the measure	Des	С	0	Guidelines	
Air Qu	ality Impa	ct Construction Phase								
3.9.1	2.2	Dust Control Measures  To achieve compliance with the FSP, RSP and TSP criteria during the construction phase, good practices for dust control should be implemented to reduce dust impacts. The dust control measures are detailed as follows:	Construction Dust	Contractor	Project construction site / Duration of the construction phase / Prior to commencement of operation		<b>✓</b>		EIA Recommendation and Air Pollution Control (Construction Dust) Regulation	
		Covering 80% of stockpiling area by impervious sheets and spraying all dusty material with water immediately prior to any loading transfer operations to keep the dusty materials wet during material handling at the stockpile areas								Y
		Disturbed Parts of the Roads  ■ Main temporary access points should bepaved with concrete, bituminous hardcore materials or metal plates and be kept clear of dusty materials; or  ■ Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.								Y
		Wheel washing  Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.								Y
		Use of vehicles  ■ The speed of the trucks within the site should be controlled to about 10 km/hour in order to reduce adverse dust impacts and secure the safe movement around the site.  ■ Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.								Y
		Site hoarding  Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit								Y

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main	Implementation Agent	Location / Duration of the measure	Implementation Stages <sup>1</sup> Legislation & Des C O Guidelines		Implementation Status		
			Concerns to address			Des	C	0	Guideillies	
Noise I	mpact Cor	nstruction Phase								
4.4.6	3.2	Good Site Practice  Good Site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:	Maintain good site practice to minimise / avoid construction noise impact	Contractor	Within the Project site / During construction phase / Prior to commencement of operation.		<b>√</b>		EIAO and Noise Control Ordinance	
		only well-maintained plant to be operated on- site and plant should be serviced regularly during the construction works;								Y
		material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.								Y
		Adoption of QPME  QPME should be adopted as far as applicable.								Y
		Use of Noise Enclosure/ Acoustic Shed Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator.								Y
		Use of Noise Insulating Fabric Noise insulating fabric can also be adopted for certain PME (e.g. pilling machine etc.).								Y

EIA	EM&A		Objectives of the Recommended	Implementation	Location / Duration of	lmp	lementa Stages		Relevant	Implementation
Ref.	Ref.	Recommended Mitigation Measures	Measure & Main Concerns to address	Agent	the measure	Des	C	O	Legislation & Guidelines	Status
Water C	Quality Imp	oact Construction Phase								
5.6.1.1	4.2	General Construction Activities  The following measures should be implemented:  -	Maintain good site practices to avoid pollution of water courses	Contractor	Within the Project site / During construction phase		<b>√</b>		Water Pollution Control Ordinance (Cap. 358), ProPECC Note PN 1/94	
5.6.1.2	4.2	<ul> <li>Construction waste, debris and refuse generated on-site should be stored or contained appropriately to prevent them entering nearby watercourses or blocking stormwater drains.</li> <li>Regular off-site removal of these materials should be maintained to minimise the volume of waste present on the construction site at any one time.</li> </ul>								Y
		Construction Site Runoff								
		The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended:								
		Temporary site drainage facilities are to be designed and implemented by the Contractor prior to commencement of construction to convey surface runoff to storm drains applying adequately designed silt/ sand removal traps and sediment basins.								
		Runoff into the excavation areas during rainstorm events shall be minimised as far as practicable. Any wastewater pumped out of the excavation areas shall be treated to remove suspended solids prior to discharge.								Y
		Open stockpiles of material should be covered on site with waterproof layers such as tarpaulin to reduce the potential for sediment laden runoff entering the drainage								
		<ul> <li>The wheels of all vehicles and plant should be cleaned before leaving the works areas to remove sediment, soil and debris from the tracks. The washwater should be treated to remove any suspended sediment.</li> <li>Manholes (including those constructed as part of the Project) should be adequately covered and temporarily sealed at all times to prevent silt, construction materials or</li> </ul>								

5.6.1.3	4.2	debris from entering the drainage system, and to prevent storm runoff from entering foul sewers. The discharge of surface runoff into foul sewers should be prevented so as not to overload the sewerage system.  Discharges should be collected by the temporary drainage system installed by the Contractor and treated on-site to remove sediment prior to discharge to the off-site drainage areas. The Contractor is required to obtain a discharge licence from EPD under the WPCO for all discharges from site with all discharges meeting the water quality requirements of the Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS)  Accidental Spillage of Chemicals In accordance with the Waste Disposal (Chemical Waste) (General) Regulation (Cap 354C), the following measures should be implemented:  The labelling and storage of chemicals should be in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and maintained at all times by the Contractor.	Prevent accidental discharge of chemicals into the surrounding environment	Contractor	Within the Project site / During construction phase	✓	Code of Practice on the Packaging Labelling and Storage of Chemical Wastes; Waste Disposal (Chemical Waste) (General) Regulation (Cap 354C)	Y
		<ul> <li>Oils and fuels should only be stored in designated areas which have appropriate pollution prevention control facilities such as oil and grease traps.</li> </ul>					33.3,	
5.6.1.4	4.2	Sewage from Construction Workforce Portable toilets should be available throughout the construction phase and regularly maintained, collected and disposed by a licensed wastecollector to a public sewage treatment works for suitable treatment.	Prevent discharge of sewage into the surrounding environment	Contractor	Within the Project site / During construction phase	<b>√</b>	Water Pollution Control Ordinance (Cap. 358), ProPECC Note PN 1/94	Y

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Implementation Agent	Location / Duration of the measure	Imp Des	lementa Stages¹ C	Relevant Legislation & Guidelines	Implementation Status
Ecologi	cal Impact								
9.7.1	8.3	Temporary Protective Fence for Flora Species of Conservation Interest  During construction phase, erection and maintenance of a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey is recommended.  Monthly monitoring of any other flora species of conservation interest identified in the detailed vegetation survey should be conducted during the construction phase.	To avoid potential impact on flora species of conservation interest from construction activities such as materials storage;  To make sure that the flora species of conservation interest are not affected by the construction activities of the Project	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities		<b>✓</b>	EIAO-TM	Y
Landsc	ape and V	isual Impacts Construction Phase							
Table 10.11	Table 9.1	CM01: Trees / woodland within the Project Site which are unaffected by the works shall be protected and preserved during the detailed design stage and construction phase. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at detailed design stage for further retention of individual trees. The preservation of existing tree shall provide instant greening and screening effect for proposed works. Tree protection works will be undertaken in accordance with DEVB TC(W) 7/2015 on "Tree Preservation" and tree risk assessment in accordance with "Guidelines for Tree Risk Assessment and Management Arrangement by DEVB.	Preserve and protect existing trees	Contractor	Project area / During design stage / construction phase / Establishment Period			EIAO-TM; Protection of Endangered Species of Animals and Plants Ordinance (Cap 586); DEVB TC(W) No. 6/2015 Maintenance of Vegetation and Hard Landscape Features; ETWB TCW No. 29/2004 Registration of Old and Valuable Trees, and Guidelines for their Preservation; DEVB TC(W) No. 07/2015 -Tree Preservation; ETWB (2/2007) - General Guidelines on Tree Pruning; GLTMS (12/2013)	Y

						-Guidelines for Tree Risk Assessment and Management Arrangement on an Area Basis and on a Tree Basis	
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Note 1: Des = Design; C = Construction; O = Operation

### APPENDIX L WASTE GENERATION IN THE REPORTING MONTH

Name of Department: ArchSD

### Monthly Summary Waste Flow Table for 2024 (year)

Project: Design and Construction of Kong Nga Po Police Training Facilities Contract No.: SS K509

Troject.	Actual Quantities of Inert C&D Materials Generated Monthly  Actual Quantities of C&D Wastes Generated Monthly  Actual Quantities of C&D Wastes Generated Monthly										Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Bituminous Material	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	$(in '000m^3)$	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	$(in '000m^3)$	$(in '000m^3)$	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m <sup>3</sup> )
Cumulative in 2023	16.796	0.000	0.000	0.000	0.000	16.796	0.000	0.000	0.041	0.054	0.000	0.657
Jan	3.263	0.000	0.000	0.000	0.000	3.263	0.000	0.000	0.000	0.000	0.000	0.117
Feb	0.423	0.000	0.000	0.000	0.208	0.215	0.000	0.003	0.225	0.009	0.000	0.111
Mar	4.882	0.000	0.000	0.000	1.216	3.666	0.000	12.066	0.000	0.384	0.000	0.195
Apr	1.859	0.000	0.000	0.000	0.013	1.846	0.000	0.000	0.000	2.716	0.000	0.260
May	7.612	0.000	0.000	0.000	6.234	1.378	0.000	0.005	0.223	0.513	0.000	0.286
Jun	1.528	0.000	0.000	0.000	0.000	1.528	0.000	0.000	0.202	0.036	0.000	0.364
Sub-total	19.565	0.000	0.000	0.000	7.670	11.895	0.000	12.074	0.650	3.658	0.000	1.333
Jul	18.313	0.000	0.000	13.295	4.167	0.852	0.000	0.000	0.000	0.000	0.000	0.507
Aug	9.776	0.000	0.000	2.659	6.611	0.507	0.000	0.002	0.000	0.026	0.000	0.533
Sep												
Oct												
Nov												
Dec												
Total	64.450	0.000	0.000	15.953	18.447	30.050	0.000	12.076	0.691	3.738	0.000	3.030

Notes:

- (1) The performance targets are given in the Particular Specification on Environmental Management Plan.
- (2) The waste flow table shall also include construction waste that are specified in the Contract to be imported for use at the site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (4) Broken concrete for recycling into aggregates.
- (5) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m3 by volume.

<sup>\*</sup>Data of August 2024 released by EPD only up to 25/8/2024 as of 4/9/24

	Т		1	1		1			1	1
							Waste			
							depth	Weight-	Weight-	
							(meter)	in	out	Net
	Date of	Vehicle	Account			Time-		(tonne)	(tonne)	weight
	transaction	No.	No.	Chit No.	Time-in	out	廢物	入閘重	出閘重	(tonne)
Facility		車牌號	帳戶編	入帳票編	進入時	離開時	深度	量	量	淨重量
設施	交易日期	碼	號	號	間	間	(米)	(公噸)	(公噸)	(公噸)
NENT	01/08/24	VK7*1	7046289	28239915	09:59	10:30	0.8	20.62	16.68	3.94
NENT	01/08/24	VK7*1	7046289	28239916	14:47	15:20	0.96	21.14	16.66	4.48
NENT	02/08/24	VK7*1	7046289	28239917	09:57	10:28	1.11	21.81	16.64	5.17
NENT	02/08/24	VK7*1	7046289	28239918	11:59	12:28	0.94	20.03	16.62	3.41
NENT	02/08/24	VK7*1	7046289	28239919	14:26	14:55	0.98	18.86	16.59	2.27
NENT	02/08/24	VK7*1	7046289	28239920	16:25	16:57	1.14	18.65	16.59	2.06
NENT	03/08/24	VK7*1	7046289	28239921	09:25	09:51	1.06	19.26	16.74	2.52
NENT	03/08/24	VK7*1	7046289	28239922	11:13	11:41	0.93	21.29	16.74	4.55
NENT	03/08/24	VK7*1	7046289	28239923	14:34	15:03	1.01	19.02	16.7	2.32
NENT	03/08/24	VK7*1	7046289	28239924	16:29	16:57	1	20.81	16.69	4.12
NENT	05/08/24	VK7*1	7046289	28239925	09:43	10:11	1.06	18.82	16.66	2.16
NENT	05/08/24	VK7*1	7046289	28239926	13:31	13:57	1.07	18.35	16.63	1.72
NENT	06/08/24	VK7*1	7046289	28239927	09:28	09:56	1.1	21.6	16.75	4.85
NENT	06/08/24	VK7*1	7046289	28239928	13:15	13:40	1.03	18.44	16.71	1.73
NENT	06/08/24	VK7*1	7046289	28239929	16:39	17:07	1.28	20.95	16.68	4.27
NENT	07/08/24	VK7*1	7046289	28239930	09:12	09:39	1.29	21.12	16.67	4.45
NENT	07/08/24	VK7*1	7046289	28239931	11:08	11:35	1.1	18.59	16.65	1.94
NENT	07/08/24	VK7*1	7046289	28239932	14:21	14:48	1.04	20.47	16.63	3.84
NENT	07/08/24	VK7*1	7046289	28239933	16:46	17:15	1.21	18.65	16.63	2.02
NENT	08/08/24	VK7*1	7046289	28239934	09:19	09:48	1.04	18.55	16.6	1.95
NENT	08/08/24	VK7*1	7046289	28239935	14:44	15:12	1.11	18.72	16.57	2.15
NENT	08/08/24	VK7*1	7046289	28239976	16:50	17:19	1.12	21.43	16.71	4.72
NENT	09/08/24	VK7*1	7046289	28239977	09:41	10:15	0.81	21.49	16.75	4.74
NENT	09/08/24	VK7*1	7046289	28239978	12:36	13:06	1.04	21.11	16.71	4.4
NENT	09/08/24	VK7*1	7046289	28239979	14:42	15:10	1.31	19.46	16.69	2.77
NENT	09/08/24	VK7*1	7046289	28239980	16:48	17:16	1	21.1	16.67	4.43
NENT	10/08/24	TA7*21	7046289	28239981	08:03	08:29	0.78	17.67	14.83	2.84
NENT	10/08/24	ZA9*45	7046289	28239982	14:07	14:35	0.97	18.1	16	2.1
NENT	10/08/24	YN8*99	7046289	28239983	15:12	15:39	0.65	18.96	15.55	3.41
NENT	12/08/24	XP3*0	7046289	28239984	08:21	08:44	0.91	21.87	19.57	2.3
NENT	12/08/24	TA9*5	7046289	28239985	11:52	12:20	1.08	18.44	16.96	1.48
NENT	12/08/24	ZA9*45	7046289	28239986	14:16	14:42	0.94	18.1	16.18	1.92
NENT	13/08/24	ZA9*45	7046289	28239987	08:31	08:57	0.87	17.89	16.25	1.64
NENT	13/08/24	RD2*11	7046289	28239988	09:16	09:42	0.74	18.2	16.75	1.45
NENT	13/08/24	RD2*11	7046289	28239989	11:46	12:10	0.93	18.41	16.93	1.48
NENT	13/08/24	TA9*5	7046289	28239990	13:12	13:39	1.35	19	16.84	2.16
NENT	14/08/24	YN1*02	7046289	28239991	08:12	08:39	1.06	22.79	20.09	2.7
NENT	14/08/24	HF7*82	7046289	28239992	14:21	14:46	1.09	18.01	16.04	1.97
NENT	14/08/24	HF7*82	7046289	28239993	16:00	16:28	1.11	18.01	16.02	1.99
NENT	15/08/24	RD2*11	7046289	28239994	09:22	09:48	0.94	19.22	16.83	2.39
NENT	15/08/24	YN8*99	7046289	28239995	10:07	10:34	0.88	18.39	15.52	2.87
NENT	15/08/24	YN8*99	7046289	28239997	11:50	12:19	1.1	18.26	15.53	2.73
NENT	15/08/24	RD2*11	7046289	28239996	11:51	12:17	0.5	21.75	16.83	4.92
NENT	15/08/24	HF7*82	7046289	28239999	13:34	14:03	1.06	18.98	15.96	3.02
NENT	15/08/24	YN8*99	7046289	28239998	13:43	14:09	1.08	19.32	15.52	3.8
NENT	15/08/24	RD2*11	7046289	28240000	14:17	14:44	0.84	21.38	16.82	4.56
	16/08/24	ZA9*45	7046289	28240001	08:29	08:55	0.79	17.77	16.08	1.69

NENT	16/08/24	ZA9*45	7046289	28240002	09:51	10:19	0.52	21.1	16.07	5.03
NENT	16/08/24	YN8*99	7046289	28240002	10:31	11:00	1.04	17.27	15.6	1.67
NENT	16/08/24	YN8*99	7046289	28240003	13:26	13:53	1.31	17.47	15.56	1.91
NENT		1		28240005	1	15:44				
NENT	16/08/24 16/08/24	YN8*99 ZA9*45	7046289 7046289	28240005	15:18 17:15	17:46	0.86 1.05	17.95 18.72	15.55 16.24	2.4 2.48
		1								
NENT	16/08/24	TA7*21	7046289	28240007	17:44	18:11	1.09	17.37	14.84	2.53
NENT	17/08/24	TA7*21	7046289	28240008	08:02	08:27	0.96	18.4	14.91	3.49
NENT	17/08/24	YN1*02	7046289	28240009	08:02	08:29	1.06	25.92	20.17	5.75
NENT	17/08/24	RD2*11	7046289	28240010	09:41	10:13	1.04	21.1	16.96	4.14
NENT	17/08/24	RD2*11	7046289	28240011	11:24	11:54	0.52	21.88	16.95	4.93
NENT	17/08/24	YN8*99	7046289	28240012	15:08	15:38	0.92	17.37	15.63	1.74
NENT	17/08/24	YN8*99	7046289	28240013	16:49	17:19	0.5	19.87	15.62	4.25
NENT	19/08/24	TA7*21	7046289	28240014	08:04	08:33	0.89	16.79	14.88	1.91
NENT	19/08/24	YN1*02	7046289	28240015	08:17	08:42	1.26	23.88	20.21	3.67
NENT	19/08/24	YN1*02	7046289	28240036	09:48	10:14	1.07	26.23	20.2	6.03
NENT	19/08/24	YN1*02	7046289	28240037	13:45	14:11	0.94	26.1	20.16	5.94
NENT	20/08/24	TA7*21	7046289	28240016	08:04	08:35	1.4	17.92	14.88	3.04
NENT	20/08/24	YN1*02	7046289	28240017	09:34	10:07	0.43	26.12	20.08	6.04
NENT	20/08/24	YN1*02	7046289	28240018	11:39	12:07	1.2	24.56	20.07	4.49
NENT	20/08/24	YN1*02	7046289	28240019	13:28	13:59	1.07	23.48	20.22	3.26
NENT	20/08/24	YN1*02	7046289	28240020	16:57	17:30	1.01	23.19	20.18	3.01
NENT	21/08/24	YN1*02	7046289	28240021	10:13	10:43	1.24	23.51	20.09	3.42
NENT	21/08/24	YN1*02	7046289	28240022	12:14	12:41	0.61	26.12	20.16	5.96
NENT	21/08/24	YN1*02	7046289	28240023	14:03	14:34	0.62	25.78	20.09	5.69
NENT	22/08/24	RD2*11	7046289	28240024	08:29	09:08	1.26	20.1	16.91	3.19
NENT	22/08/24	YN8*99	7046289	28240025	12:27	13:04	0.75	16.53	15.67	0.86
NENT	22/08/24	YN8*99	7046289	28240026	14:34	15:04	0.82	18.11	15.66	2.45
NENT	23/08/24	TA7*21	7046289	28240038	08:05	08:38	1.29	19.77	14.87	4.9
NENT	23/08/24	YN8*99	7046289	28240027	12:54	13:21	0.7	18.84	15.57	3.27
NENT	23/08/24	YN8*99	7046289	28240028	14:37	15:08	0.78	16.72	15.55	1.17
NENT	24/08/24	RD2*11	7046289	28240029	08:21	08:52	1.64	20.55	16.96	3.59
NENT	24/08/24	HF7*82	7046289	28240030	11:51	12:15	1.23	18.46	15.98	2.48
NENT	24/08/24	HF7*82	7046289	28240031	13:33	13:56	1.11	19.77	15.96	3.81
NENT	24/08/24	YN8*99	7046289	28240032	14:30	14:58	0.44	19.92	15.63	4.29
NENT	24/08/24	YN8*99	7046289	28240033	16:00	16:35	0.96	17.2	15.59	1.61
TM38FB	06/08/24	XD8*04	7046289	28239873	09:18	09:27	0	36.74	16.47	20.27
TM38FB	06/08/24	PB1*13	7046289	28239874	15:58	16:07	0	36.98	15.66	21.32
TM38FB	06/08/24	XW7*3	7046289	28239875	16:55	17:02	0	37.22	16.42	20.8
TM38FB	06/08/24	LJ3*0	7046289	28239876	16:57	17:03	0	37.68	15.86	21.82
TM38FB	06/08/24	GJ7*6	7046289	28239877	17:02	17:08	0	36.53	15.63	20.9
TM38FB	06/08/24	SL4*82	7046289	28239878	17:26	17:34	0	36.82	15.52	21.3
TM38FB	07/08/24	SM1*9	7046289	28239879	10:20	10:26	0	37.3	15.75	21.55
TM38FB	07/08/24	PB1*13	7046289	28239880	11:12	11:18	0	37.4	15.72	21.68
TM38FB		SM1*9	7046289	28239881	12:13	12:20	0	36.55	15.73	20.82
TM38FB		SL4*82	7046289	28239882	13:00	13:11	0	36.6	15.59	21.01
TM38FB		SM1*9	7046289	28239883	14:22	14:30	0	38.09	15.69	22.4
TM38FB		GJ7*6	7046289	28239885	15:57	16:02	0	36.78	15.57	21.21
TM38FB		MB1*09	7046289	28239886	16:03	16:09	0	37.31	16.01	21.3
TM38FB		PB1*13	7046289	28239884	16:08	16:14	0	37.01	15.71	21.3
TM38FB	· · ·	XW7*3	7046289	28239887	17:15	17:24	0	37.69	16.44	21.25
TM38FB		GJ7*6	7046289	28239888	09:21	09:30	0	36.64	15.75	20.89
TM38FB		SL4*82	7046289	28239889	09:38	09:51	0	37.76	15.62	22.14
	08/08/24	SS8*06	7046289	28239890	12:36	12:46	0	37.09	16.84	20.25
<sup> </sup>   38FB										

TM38FB	09/08/24	MB1*09	7046289	28239892	15:51	16:05	Го	36.85	16.01	20.84
TM38FB		PB1*13	7046289	28239894	16:31	16:38	0	37.3	15.71	21.59
TM38FB		SL4*82	7046289	28239895	16:43	17:02	0	36.99	15.6	21.39
TM38FB		XA2*3	7046289	28239893	16:46	16:53	0	37.71	16.49	21.22
TM38FB		YA8*35	7046289	28239936	17:16	17:21	0	37.72	15.67	22.05
TM38FB		UD2*7	7046289	28239937	11:32	11:38	0	37.61	16.35	21.26
TM38FB		PB1*13	7046289	28239938	12:05	12:13	0	37.51	15.67	21.84
TM38FB		MB1*09	7046289	28239939	15:57	16:03	0	37.44	16.05	21.39
TM38FB		XG1*48	7046289	28239940	09:00	09:06	0	37.11	16.03	21.08
TM38FB		MB1*09	7046289	28239942	09:06	09:11	0	37.27	16.14	21.13
TM38FB		PB1*13	7046289	28239941	09:06	09:11	0	37.66	15.74	21.92
TM38FB		SL4*82	7046289	28239943	09:57	10:10	0	37.16	15.66	21.5
TM38FB		XG1*48	7046289	28239944	13:15	13:21	0	37.15	16.12	21.03
TM38FB		PB1*13	7046289	28239945	14:07	14:13	0	37.24	15.64	21.6
TM38FB		MB1*09	7046289	28239946	14:17	14:25	0	37.31	16.1	21.21
TM38FB		SS8*06	7046289	28239947	14:30	14:36	0	36.97	16.39	20.58
TM38FB		XG1*48	7046289	28239948	16:30	16:36	0	37.34	16.07	21.27
TM38FB		SL4*82	7046289	28239949	17:17	17:24	0	36.48	15.58	20.9
TM38FB		MB1*09	7046289	28239950	17:28	17:36	0	37.42	16	21.42
TM38FB		PB1*13	7046289	28239951	17:29	17:35	0	37.39	15.63	21.76
TM38FB		XG1*48	7046289	28239953	09:27	09:32	0	36.77	16.14	20.63
TM38FB		LJ3*0	7046289	28239952	09:30	09:36	0	37.58	15.95	21.63
TM38FB		XG1*48	7046289	28239954	13:57	14:03	0	37.04	16.06	20.98
TM38FB		LJ3*0	7046289	28239955	14:01	14:12	0	37.15	15.88	21.27
TM38FB		XA2*3	7046289	28239956	16:42	16:49	0	36.73	16.53	20.2
TM38FB		XA2*3	7046289	28239957	17:11	17:18	0	37.08	16.56	20.52
TM38FB		PB1*13	7046289	28239958	17:15	17:24	0	37.04	15.67	21.37
TM38FB		PB1*13	7046289	28239959	17:16	17:33	0	37.53	15.66	21.87
TM38FB		PB1*13	7046289	28239960	17:03	17:19	0	37.16	15.66	21.5
TM38FB		MB1*09	7046289	28239961	17:03	17:12	0	37.24	16.12	21.12
TM38FB		RY6*12	7046289	28239962	17:31	17:40	0	36.91	15.87	21.04
TM38FB		PB1*13	7046289	28239963	10:53	11:01	0	36.66	15.74	20.92
TM38FB				28239964	11:14	11:23	0	37.15	16.05	21.1
TM38FB		MB1*09		28239965	11:36	11:43	0	37.26	16.24	21.02
TM38FB	<u> </u>	LJ3*0	7046289	28239966	11:49	11:59	0	37.49	15.93	21.56
TM38FB		XW7*3	7046289	28239967	12:01	12:19	0	37.56	16.59	20.97
TM38FB		PB1*13	7046289	28239969	13:18	13:24	0	37.31	15.83	21.48
TM38FB	-	UD2*7	7046289	28239971	13:40	13:48	0	36.96	16.39	20.57
TM38FB		XC4*09	7046289	28239973	14:09	14:26	0	36.66	16.48	20.37
TM38FB	<del></del>	XW7*3	7046289	28239974	14:22	14:42	0	37.65	16.5	21.15
TM38FB		XD8*04	7046289	28239975	14:33	14:40	0	37.56	16.62	20.94
TM38FB		MB1*09		28239968	14:47	14:54	0	37.14	16.19	20.94
		XG1*48	7046289	28239970		<del>                                     </del>	0	37.14		<del>                                     </del>
TM38FB		LJ3*0	7046289		14:48	14:57	0		16.27 16	20.94
TM38FB			7046289	28239972	14:52	15:00	0	37.34		21.34
TM38FB		PB1*13	7046289	28240096	15:06	15:13		37.07	15.63	21.44
TM38FB		MB1*09	7046289	28240097	16:41	16:47	0	37.05	16.17	20.88
TM38FB		XG1*48	7046289	28240098	16:54	17:03	0	37.35	16.09	21.26
TM38FB		LJ3*0	7046289	28240099	17:03	17:15	0	36.94	15.85	21.09
TM38FB		PB1*13	7046289	28240100	17:13	17:19	0	37.04	15.6	21.44
TM38FB		SM1*9	7046289	28240101	17:38	17:52	0	35.68	15.79	19.89
TM38FB		SL4*82	7046289	28240102	17:44	18:00	0	37.13	15.59	21.54
TM38FB		PB1*13	7046289	28240103	09:02	09:10	0	37.21	15.76	21.45
TM38FB		XG1*48	7046289	28240104	09:23	09:35	0	37.76	16.03	21.73
TM38FB	24/08/24	PB1*13	7046289	28240105	11:22	11:30	0	37.65	15.71	21.94

TM38FB	24/08/24	PB1*13	7046289	28240106	13:46	13:59	0	37.19	15.68	21.51
TM38FB	24/08/24	XG1*48	7046289	28240107	13:56	14:02	0	37.11	16.11	21
TM38FB	24/08/24	PB1*13	7046289	28240108	15:32	15:42	0	37.09	15.65	21.44
TM38FB	24/08/24	XG1*48	7046289	28240109	15:39	15:46	0	36.83	16.07	20.76
TM38FB	24/08/24	XG1*48	7046289	28240110	17:27	17:37	0	37.75	16.05	21.7

#### **REMARKS**

堆填區 Landfill	NENT	新界東北堆填區 North East New Territories Landfill
公眾填料接收設施 Public fill reception facilities	TM38FB	屯門第38區填料庫 Fill Bank at Tuen Mun Area 38

### APPENDIX M COMPLAINT LOG

# Appendix M - Complaint Log

Reporting month: August 2024

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action Status	Status
C001	N07/RN/00020836- 23	Kong Nga Po Road (Lamp post GD0470)	29-Aug-23	The complainant alleged that the general construction noise except renovation (within Restricted Hours) from at Kong Nga Po Road (Lamp post GD0470), and commented that "晚上八九點地盤有噪音有人工作". The work sites under complaint are adjacent to the captioned Designated Project area.	Record of Site Investigation Refer to the public complaint which was no mention the certain time, based on daily record provided, CSJV was confirmed that the working period on 26, 27 & 28 Aug 2023 and the working hours were within the approved restricted hour. The equipment applied on the mentioned periods were listed in the Group D of the CNP No. GW- RN0882-23 (Effective date from 24/08/2023 to 23/11/2023)  According to the written reply, the Contractor has implemented both the notification of the neighborhood on the schedule of night works and erect noise barriers to screen noisy works for	Closed
				The complainant alleged that the river(s) near the San Uk Ling Holding Centre has recently had a large amount of soil/muddy water. (新屋嶺扣留中心附近的河流,近日有大量黃泥水)	neighborhood. Please be advised that the Contractor is strictly adhering to the conditions of the construction noise permit.  Record of Site Investigation  In reference to the public complaint, it has been noted that the complainant did not provide a precise description of the river(s) location adjacent to the San Uk Ling Holding Centre, where there has been a recent influx of soil-laden water.	
C002	N07/RN/00029993- 23	The river(s) near the San Uk Ling Holding Centre	14-Dec-23		EPD officers carried out site inspection on 15/12/2023 at 11:20 –12:00. EPD officers checked the U-channels, catchpits and wastewater treatment facility at WTF. No water including muddy water was discharged from Construction sites to the drainage. The Contractor has checked the drainage and wastewater treatment facilities at WTF and SOTF, which is near the complaint area. No water was discharged from the above locations.	Closed
					Advice: For the Contractor:  1)The Contractor strictly complies with the requirements of relevant environmental ordinances	

				and EM&A Manual.  2) The promotional flyer contains a Community Liaison Hotline: 9790 2879 that can be placed in residents' mailboxes, so they can directly contact you to resolve environmental issues.  For EPD officer: 1) Please consider that the Community Liaison Hotline: 9790 2879 will be provided for the complainant to directly contact the Contractor to resolve environmental issues. 2) Please consider encouraging the complainant to provide more accurate and detailed information to facilitate our follow-up efforts.	
C003	Soil/muc water from Uk Leng Man Kam Road ne Designa Project of Police Facilities Kong Nga near San Leng at M	San at To ar ed the 7-Apr2024 in Po, Uk	The complainant alleged in Chinese, as shown below: 1)4月6日下午約一點下了一場雨,但到7號已過一天,河水還是泥黃色  2)投訴人表示為上水新屋嶺附近居民,在新屋嶺練靶場附近有一政府地盤,由中國建築進行有關政府機動步隊的工程。投訴人表示建築公司沒有一個妥善的排污系統,把地盤所產生的黃泥水直接排在新屋嶺或經新屋嶺排走,導致黃泥水經引水道流入新屋嶺及新屋嶺漁塘,嚴重影響附近居民,現要求有關部門盡快跟進及處理。	Record of Site Investigation Based on a complaint investigation conducted by the Contractor, no muddy water was found discharged from the site. Mitigation measures have been strengthened by plugging off the last manholes of the site.	Closed

#### Cumulative Complaint Log

Complaint Log Reporting Period	Total no. of Complaint Received
This reporting month	0
From 1st April 2023 to end of the reporting month	3

APPENDIX N SUMMARY OF SUCCESSFUL PROSECUTION

# Appendix N - Summary of Successful Prosecution

Date of Successful Prosecution	Details of the Successful Prosecution	Status	Follow Up	Total no. Received in this Reporting Month	Total no. Received since Project Commencement

# APPENDIX O

The potential seriousness of the forthcoming environmental impacts and the use of machineries

A list of potential environmental impacts	The advice includes, but is not limited to, the following	Consideration of possible alternative methods		
Visual Impact: The presence of machinery, equipment, and temporary structures associated with ground investigation and plate load testing may have visual impacts on the surrounding landscape, altering the aesthetic qualities of the area.  Noise and Vibration: The operation of heavy machinery can contribute to noise and vibration pollution, which can disturb local wildlife or sensitive wildlife habitats.	Screening and Camouflage: Use screening techniques, such as temporary fencing, barriers, or landscaping, to visually conceal the machinery, equipment, and temporary structures from view. This can help minimize the visual impact on the surrounding landscape.  Use of Low Noise and Vibration Equipment: Whenever possible, equipment produces lower levels of noise and vibration should be used. The use of noise barriers around the site can also help to mitigate the impact on local communities and wildlife.	Use of Electric-Powered Equipment: Electric- powered equipment is generally quieter than diesel powered equipment to help reduce noise pollution.		
Disturbance of Local Ecosystems: The drilling operations, particularly those involving excavation, can potentially disturb the local ecosystems and impacting biodiversity.  Air Pollution: Machinery used in construction sites can emit pollutants into the air.  These pollutants may include Particulate Matter (PM), Nitrogen Oxides (NOx), Sulfur Oxides (SOx), and Volatile Organic Compounds (VOCs), contributing to air pollution and potentially impacting air quality in the surrounding area.	Training and Awareness: trainings are provided for site personal about the importance of minimizing disturbance to local ecosystems, such as minimized noise and light pollution, how to handle waste properly, and what to do if they encounter local wildlife.  Dust Control Measures: Implement dust control measures such as water sprays, dust screens, or using dust suppression chemicals to reduce particulate matter emissions, and training for all staff on the importance of air quality and measures to reduce air pollution.	<ul> <li>Employing construction methods of a low-impact nature, such as the utilization of machinery that is lightweight and drilling techniques which are minimally invasive</li> <li>1. Improved Fuel Efficiency and Maintenance:     Promoting fuel-efficient practices and regular maintenance of machinery can help reduce emissions.</li> <li>2. Properly maintained equipment operates more efficiently, resulting in lower fuel consumption and reduced emissions. Implementing fuel-saving measures, such as reducing idling time and optimizing equipment usage, can further minimize air pollution during construction.</li> </ul>		
Water Pollution: Drilling operations have the	Proper containment and lining of mud pools is crucial to	Horizontal Directional Drilling (HDD): HDD is a		

potential to contaminate local water sources, particularly if improper waste management practices are used. **Soil Disturbance:** The use of heavy machinery can cause soil compaction and disturbance, particularly during drilling operations or movement of equipment. This soil disturbance can disrupt the natural structure and composition of the soil, affecting its

prevent contamination. Mud pools should have an impermeable liner, such as HDPE or bentonite clay, to prevent seepage into the ground. Berms can be constructed around the perimeter to contain any overflow. Regular inspection and maintenance of the liner integrity is important.

- trenchless method that causes less disturbance to the surrounding environment and mitigates the risk of water contamination. It could be a viable alternative depending on the geology of the site and the purpose of the drilling operation.
- 2. Dry Drilling Techniques: Depending on the geology of the site, dry drilling techniques could be considered. These methods do not use drilling fluids and therefore reduce the risk of water contamination from these sources.

ability to support vegetation growth and nutrient cycling.

- 1. Proper Planning and Design: Incorporate soil protection measures into the initial planning and design phase of construction projects. This includes identifying sensitive areas and implementing appropriate construction techniques to minimize soil disturbance.
- 2. Ground Improvement Techniques: Techniques like soil stabilization, grouting, and compaction can help improve the soil's strength and stability, reducing the likelihood of soil disturbance during construction.

A helical pile is a type of deep foundation system used in construction. It consists of a steel shaft with helical plates or blades that are twisted into the ground to provide support for structures. Helical piles are commonly used in situations where traditional foundation methods are impractical or costly, such as in areas with poor soil conditions or limited access for heavy machinery.

**Energy Consumption:** The operation of machinery requires energy, typically derived from fossil fuels. The extraction, processing, and combustion of these fuels contribute to greenhouse gas emissions and contribute to climate change.

- 1. Training: workers are trained in the importance of energy conservation and efficiency. This could involve instruction on when to turn off equipment, how to use machinery efficiently, and the benefits of energy conservation.
- 2. Efficient Equipment and Machinery: Use energy-efficient machinery and equipment that consume less energy during operation. Regular maintenance and proper calibration of machinery can also improve energy efficiency and reduce energy waste.
- 1. Prefabrication and Modular Construction: Prefabrication and modular construction methods involve manufacturing building components off-site and assembling them onsite. This approach reduces energy consumption by streamlining the construction process, minimizing material waste, and optimizing energy usage during manufacturing.
- 2. Lean Construction: This methodology helps energy optimization in construction processes.

Waste Generation: Ground investigation and plate load testing may generate various types of waste, including drilling cuttings, excess soil, and construction debris. Improper disposal or management of these wastes can result in soil and water contamination or contribute to landfill usage.

Education and Training: education and training are provided to construction workers and staff on proper waste management practices. Raise awareness about the importance of waste reduction, recycling, and responsible disposal methods. Encourage worker participation and engagement in waste management initiatives.

Cone Penetration Testing (CPT): CPT is a method of ground investigation that produces minimal waste compared to traditional drilling methods. It involves pushing a cone-shaped probe into the ground and measuring the resistance, which can provide valuable information about the soil conditions with less soil disturbance.

### APPENDIX P A LIST OF MACHINERIES USED IN CONSTRUCTIN SITE

# SSK509 Design and Construction of Kong Nga Po Police Training Facilities NRMM & QPME List

<u>Type</u>	<u>Brand</u>	<u>Model</u>	S/N No.	Engine Make	Engine Model	NRMM No.	Approval, Exemption or Modification	QFIVIE 110.	<u>QPME</u> <u>Expiry Date</u>	Sound Power Level
Generator	Airman	SDG100S-3B1	1533B10240	ISUZU	BI-4HK1XYGD-02	EPD-A-003542-2017	Approval	EPD-06206R	1-Dec-29	92
Forklift	Mitsubishi	fd25nt	CF18C-81179	Mitsubishi	S4S	EPD-A-007117-2016	Approval			
Generator	Airman	SDG60S-3B1	14A3B10240	ISUZU	BJ-4JJ1XYGD-04	EPD-A-003657-2017	Approval	EPD-06274R	1-Dec-29	90
Generator	Denyo	DCA-220ESEI	3936288	ISUZU	6UZ1	EPD-A-001848-2019	Approval	EPD-08614	1-Aug-25	96
Forklift	Doosan	D30NXP	FDA41-1670-02844	YANMAR	4TNE98-BQDF1CC	EPD-A-000153-2023	Approval			
Generator	Airman	SDG60S-3B1	14A3B10369	ISUZU	BJ-4JJ1XYGD-04	EPD-A-001314-2020	Approval	EPD-09851	1-Aug-26	90
Generator	Nippon Sharyo	NES150TI	DG041900	ISUZU	BH-6HK1X	EPD-A-001707-2018	Approval	EPD-07118R	1-Jul-30	92
Forklift	Mitsubishi	FD30NT	CF14E-16891	Mitsubishi	S4S	EPD-A-000779-2017	Approval			
Generator	Nippon Sharyo	NES220EM	FJ083800	Guangxi Yuchai	YC6A275-D30	EPD-M-002058-2020	Approval	EPD-01840R	1-Jul-25	95
Excavator	Komatsu	PC138US-8NM	29202	KOMATSU	SAA4D95LE-5	EPD-A-000710-2021	Approval			
Excavator	Hitachi	ZX200-5A	HCMDCX90E00300835	ISUZU	4HK1-XDHAG-02-C3	EPD-A-001008-2019	Approval	EPD-08152	1-Apr-25	103
Excavator	Hitachi	ZX75US-3	HCM1P300A00062042	ISUZU	AU-4LE2X	EPD-A-003158-2019	Approval		'	
Generator	Airman	SDG220L-5B1	P8BB1-0339	ISUZU	BH-6UZ1XYGD-04	EPD-A-001469-2022	Approval	EPD-12431	1-Jun-28	94
Generator	Nissha	NES150TI	DG028600	Isuzu	BH-6HK1X	EPD-A-004698-2016	Approval	EPD-03628R	1-Apr-28	92
Generator	Airman	SDG45S-3B1	1333B10475	Kubota	V3800-T	EPD-A-000053-2018	Approval	EPD-06536R	1-Feb-30	87
Generator	Airman	SDG220L-5B1	P8BB1-0383	ISUZU	BH-6UZ1XYGD-04	EPD-A-000565-2023	Approval	EPD-13321	1-Mar-29	94
Excavator	Komatsu	SK350LC-8	YC11-06650	Hino	J08E-TM	EPD-A-002154-2018	Approval	LI D 13321	I Widi 25	37
		NES150TI	DG042300	ISUZU	BH-6HK1X	EPD-A-002134-2018		EPD-07262	1-Aug-30	92
	Nippon Sharyo	ViO40-5	51036B				Approval	EPD-07262	1-Aug-50	92
Excavator Excavator	Yanmar			Yanmar	4TNV88-PBV	EPD-A-000128-2019	Approval			
	Hitachi	ZX350K-3	HCM1V900T00056936	ISUZU	6HK1-XDHAA-01-C2	EPD-A-000772-2020	Approval			
Excavator	Kobelco	SK135SR-2	YY06-15612	Mitsubishi	D04FR	EPD-A-000581-2022	Approval			
Excavator	Liugong	CLG922E	CLG922EZHPE718565	Cummins	QSB7	EPD-A-003163-2023	Approval			
Generator	Nippon Sharyo	NES60TK2	KS013300	Kubota	V3800-DI-TI-K3A	EPD-A-007338-2016	Approval	EPD-04522R	1-Dec-28	90
Road works machine	BITELLI	DTV325	000816	HATZ	2M41	EPD-EE-018554-2015	Exemption			
Excavator	Kobelco	SK200-8	YN12-65540	Hino	J05E-TA	EPD-A-003548-2017	Approval			
Loader	Bobcat	S450	B1ED11528	Kubota Corporation	V2403-M-DI-EU32	EPD-A-005651-2016	Approval			
Excavator	Kobelco	SK225SR	YB05-03058	Hino	AA-J05E-TA	EPD-A-001400-2022	Approval			
Excavator	Kato	HD820V	KWJ01E01PC0006237	Mitsubishi	4M50-TLE3A	EPD-A-003461-2021	Approval			
Excavator	Hitachi	ZX225USR-5B	HCMDCQA0E00303589	ISUZU	4HK1	EPD-A-000509-2024	Approval			
Excavator	Liugong	CLG922E	CLG922EZEPE718566	Cummins	QSB7	EPD-A-003164-2023	Approval			
Excavator	Kobelco	SK135SR-2	YY06-22265	Mitsubishi	D04FR	EPD-A-005755-2016	Approval			
Excavator	Kobelco	SK225SR-3	YB07-05170	Hino	J05E	EPD-A-000565-2024	Approval			
Excavator	Kobelco	SK135SR-2	YY05-12343	Mitsubishi	D04FR-KDP2TAAC	EPD-A-000483-2017	Approval			
Generator	Nippon Sharyo	NES60TK2	KS013000	Kubota	V3800-DI-TI-K3A	EPD-A007294-2016	Approval	EPD-04519R	1-Dec-28	90
Excavator	Komatsu	PC228US-3E0	KMTPC161P02042049	KOMATSU	SAA6D107E-1	EPD-A-005462-2016	Approval	LI D-04313K	1-Dec-20	50
Excavator	Kato	HD820V	KWJ01E01VA0005768	Mitsubishi	4M50-TLE3A	EPD-A-000979-2022				
		CC1300	10000334E0A010764				Approval			
	Dynapac	DIS-180SS2		Kubota	V22030	EPD-EE-019550-2015	Exemption	EPD-06937	1 14 24	93
	Denyo		3929214	ISUZU	AA-4LE2	EPD-A-001224-2018	Approval	EPD-06937	1-May-24	93
	Caterpillar	320D	CAT0320DEBWZ02549	Caterpillar	JRD-C6.4	EPD-A-000252-2019	Approval			
Road works machine	BOMAG	BW131AD-2	751750101550	KUBOTA	V1505	EPD-A-001349-2022	Approval			
Drilling rig	CHINA Geo-equipment Chongqing Exploration Machinery Co. Ltd.	XY-2B	3-4756	BEINEI	F4L912E11-1	EPD-A-001602-2020	Approval			
2 Generator	Nippon Sharyo	NES25TK	XZ027600	Kubota	V2403-K3A	EPD-A-007336-2016	Approval	EPD-04514R	1-Dec-28	90
Loader	Liugong	CLG365B	LGC365BZCPC503358	Perkins	404D-22	EPD-A-000432-2024	Approval		1	
Generator	Airman	SDG60S-3B1	14A3B10618	ISUZU	BJ-4JJ1XYGD-04	EPD-A-002916-2022	Approval	EPD-12884	1-Dec-28	90
Generator	Airman	SDG125S-3B1	1263B10611	ISUZU	BI-4HK1XYGD-02	EPD-A-000878-2024	Approval	EPD-14678	1-Apr-30	92
Generator	Airman	SDG1253-3B1	1723B10569	ISUZU	BH-6HK1XYGD-11	EPD-A-002208-2023	Approval	EPD-13957	1-Sep-29	95
Generator	Nippon Sharyo	NES220EM	FJ091800	Guangxi Yuchai	YC6A275-D30	EPD-M-002208-2023	Approval	EPD-13937 EPD-02303R	1-Jun-26	95
	Kobelco	SK135SR-2	YY06-18660	Mitsubishi	D04FR	EPD-M-003034-2023 EPD-A-003077-2019		LI D-02303N	1-7011-20	33
Excavator Generator	Airman	SDG220L-5B1	P8BB1-0529	ISUZU	BH-6UZ1XYGD-04	EPD-A-003077-2019 EPD-A-001084-2024	Approval	EPD-14827	1 May 20	94
Generator							Approval	EFD-14027	1-May-30	J*+
Excavator	Kobelco	SK210D	YN11-50763	Hino	AA-J05E-TA	EPD-A-002407-2019	Approval	1	+	1
Excavator	Yanmar	VIO40-5B	58375	YANMAR	4TNV88-BXBVD	EPD-A-005390-2016	Approval			
Loader	BOBCAT	S450	B5NB11534	KUBOTA	V2403	EPD-A-001492-2024	Approval			
special purpose vehicle		D30NXP	FDA41-4920-03786	Yanmar	4TNE98	EPD-A-001869-2024	Approval			
Excavator	Kobelco	SK210DLC	YQ11-06431	Hino	J05E-TA	EPD-A-002156-2021	Approval			
Generator	Airman	SDG400S-7B1	1947B10079	KOMATSU	SAA6D140E-5-C	EPD-A-006723-2016	Approval	EPD-04157R	1-Sep-28	101
Mobile Crane	SANY	STB650T5-8	TE0065CE0130	WEICHAI	WP7G300E473	EPD-A-001095-2024	Approval	EPD-14911	1-Jun-30	104

# APPENDIX Q Wastewater Discharge Layout Plan

