Date: 14 June 2023
Your ref:
Our ref: PL-202307022

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 (June 2023)

Reference is made to the Monthly EM&A report provided by ET via email on 8 July 2023 and subsequent revision submitted on 14 June 2023, Version 4.

Please be informed that we have no adverse comments on the Monthly EM&A report (June 2023), Version 4. 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.

Acuity Sustainability Consulting Limited
Flat/RM E, 12/F, Ford Glory Plaza,
Nos. 37-39 Wing Hong Street, Kowloon, Hong Kong
tel +852 2698 6833
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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 June 2023 (Version 4)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

Ka Shing accepts no responsibility for changes made to this report by third parties.

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

Our ref: 12-7-2023

12-7-2023

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 June 2023

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

cc Acuity Sustainability Consulting Limited — Mr. Law — By email: Law.Law@aurecongroup.com
China State Joint Venture — Ms. Marian Kong — By email: malai.kong@cohl.com

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EXECUTIVE SUMMARY

Introduction

1. This is the 3rd monthly Environmental Monitoring and Audit (EM&A) Report for the Project of Police Facilities in Kong Nga Po 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"). This report documents the findings of Environmental Monitoring and Audit (EM&A) work conducted from 1st to 30th June 2023.

2. Part of the construction site was handed over to Architectural Services Department (ArchSD) on 23rd December 2022 whom taken over responsibility for the construction of building works and as maintenance agent for Hong Kong Police Force (HKPF) during operation phase.

3. During the reporting month, the following Works Contracts were undertaken for the Project of Police Facilities in Kong Nga Po under Environmental Permit No. FEP-01/510/2016: Contract No. SSK509 - Design and Construction of Kong Nga Po Police Training Facilities

Environmental Monitoring and Audit Progress

4. 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
Air Quality Monitoring	2, 8, 14, 20, 26, 30 June 2023
Noise Monitoring	8, 14, 20, 26 June 2023
Ecological Monitoring	30 June 2023
Environmental Site Inspection	6, 14, 20, 27 June 2023
landscape & Visual Inspection and the Ecological Monitoring	6, 13, 27 June 2023

Breaches of Action and Limit Levels

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

Air Quality

6. All construction air quality monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise

7. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Table II Summary Table for Events Recorded in the Reporting Month

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

Ecological Monitoring

8. All ecological monitoring was conducted as scheduled in the reporting month. The ecological monitoring result in the reporting month is shown in **Appendix H.**

Environmental Non-Compliance

9. No environmental non-compliance was recorded in the reporting month

Environmental Complaint

10. No environmental complaint was received in the reporting month.

Notification of Summons and Successful Prosecutions

11. No notification of summons or successful prosecutions was received in the reporting month.

Reporting Changes

12. Part of the construction site was handed over to Architectural Services Department (ArchSD) on 23rd December 2022 whom took over responsibility for the construction of building works. So, the site activities and implementation status of environmental mitigation measures related to ArchSD Contract are presented in this Monthly EM&A Report.

Future Key Issues

13. The major site activities for the coming three months include:
    - Setting-up of site office
    - Open cut excavation
    - Removal of soil
    - Construction of footings
    - Pre-bored socketed-H Piling
    - U.U. Lead in and Pipe Duct Connection

14. Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, noise, water quality and waste management. For the details, please refer to **Appendix A** regarding the anticipated major impacts from the construction works and corresponding recommended mitigation measures.

1 INTRODUCTION

1.1 Ka Shing Management Consultancy Ltd. (Ka Shing) was commissioned by the Architectural Services Department (ASD) as the Environmental Team to undertake the Environmental Monitoring and Audit (EM&A) works for the Project of Police Facilities in Kong Nga Po under Environmental Permit No. FEP-01/510/2016 to ensure that the environmental performance of the Works Contracts comply with the requirements specified in the Environmental Permits (EPs), Environmental Impact Assessment (EIA) Report and Environmental Monitoring & Audit (EM&A) Manual of the Police Facilities in Kong Nga Po Project and other relevant statutory requirements.

1.2 The major construction works for the Project commenced on 3rd July 2020 and the main site in Kong Nga Po was handed over to Architectural Services Department (ASD) on 23rd December 2022 whom taken over responsibility for the construction of building works and as maintenance agent for Hong Kong Police Force (HKPF) during operation phase.

Purpose of the report

1.3 This is the 3rd EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1st to 30th June 2023.

Structure of the report

1.4 The structure of the report is as follows:

Section 1: Introduction - purpose and structure of the report.

Section 2: Project Information – summarises background and scope of the Project, site description, project organisation and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licences during the reporting month.

Section 3: Air Quality Monitoring – summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event /Action Plans.

Section 4: Noise Monitoring – summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event/Action Plans.

Section 5: Ecological Monitoring – summarises the monitoring results of the monthly ecological monitoring undertaken within the reporting month.

Section 6: Landscape and Visual Monitoring – summarises the audit results of the site inspection undertaken within the reporting month.

Section 7: Environmental Site Inspection – summarises the audit findings of the weekly site inspections undertaken within the reporting month.

Section 8: Environmental Non-conformance – summarises any monitoring exceedance, environmental complaints, environmental summons and successful prosecutions within the reporting month.

Section 9: Future Key Issues – summarises the impact forecast for the next three months and monitoring schedule in the next month.

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 is a Designated Project under the Environmental Impact Assessment Ordinance (EIAO). An Environmental Impact Assessment (EIA) Report (Report No.: AEIAR-201/2016) for the Project was approved under EIAO in October 2016 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 was issued (EP no.: FEP-01/510/2016) by the Director of Environmental Protection (DEP).

2.3 According to an approved Environmental Monitoring and Audit (EM&A) Manual, an air quality and noise monitoring programme is recommended during the construction phases of the Project to monitor the expected dust and noise nuisances. Baseline air quality and noise monitoring were conducted by previous ET (Wellab Limited) from 14th March 2020 to 2nd April 2020 to establish the background conditions of the designated sensitive receivers prior to the commencement of the Project's construction works.

2.4 The site layout plan for the Project is shown in **Figure 1**.

Project Organization

2.5 Different parties with different levels of involvement in the Project organization under EP no.: FEP-01/510/2016 include:

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 The key personnel contact names and numbers under Quotation No. PMB202/8480/2022/A01/A and the other contact names and numbers under ArchSD Contract No. SSK509 are summarised in Table 2.1.

Table 2.1 Key Contacts of the Project

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

Contractor (China State JV)	Site Agent	Mr. Kelvin Chan	6272 8828	2866 6325
	Senior Environmental Officer	Ms. Marian Kong	6174 9735	2866 6325
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 The major site activities undertaken in the reporting month included:

- Preparation for excavation
- Ground Investigation
- Pre-bored socketed-H Piling

Construction Programme

2.8 A copy of Contractors' construction programmes is provided in Appendix A.

2.9 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in Table 2.2

Table 2.2 Status of Environmental Licences, Notifications and Permits

Permit / Licence No.	**Valid Period**		**Status**
	From	**To**	
Further Environmental Permit (FEP)			
FEP-01/510/2016	N/A	N/A	Valid
Construction Noise Permit (CNP)			
GW-RN0478-23	10-05-2023	09-08-2023	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
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 EM&A programme requires construction noise monitoring, air quality monitoring, ecological monitoring and environmental site audits. The EM&A requirements are described in the following sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event / Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA study final report; and
- Environmental requirements in contract documents.

Status of Compliance with Environmental Permits Conditions

2.11 The status of compliance with Environmental Permit (EP) No. FEP-01/510/2016 and required submission related to this Project under the EP is summarized in **Table 2.3**:

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

EP Conditions	Submission	Submission Date	Approval Status
1.12	Notification of Commencement Date of Construction	30/3/2023	*
2.7	Proposal on the Reporting Mechanism and Curriculum Vitae of the IEC	20/3/2023	*
2.10	The date of setting up the Community Liaison Hotline and the contact details	27/2/2023	*
2.11	Management Organizations	10/3/2023	*
2.12	Construction Works Schedule and Location Plans	10/3/2023	*
2.13	Layout plan for permeable pavings	29/3/2023	For approval
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	Notification

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

3 AIR QUALITY MONITORING

Monitoring Requirements

3.1 In accordance with the EM&A Manual, impact 1-hour TSP monitoring was conducted to monitor the air quality for the Works Contracts. **Appendix B** shows the established Action/Limit Levels for the air quality monitoring works.

3.2 Impact 1-hour TSP monitoring was conducted for at least three times every 6 day at one air quality monitoring station.

Monitoring Location

3.3 According to Section 2.2.5 of the EM&A Manual, impact air quality monitoring was conducted at the two designated monitoring stations for the Project as shown in Figure 2. Table 3.1 describes the location of the air quality monitoring stations.

Table 3.1 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

3.4 As the setup of HVS for 1-hour TSP monitoring at the designated locations and request for secured supply of electricity for HVS were not allowed by the villager, direct reading dust meters was therefore used to carry out the 1-hour TSP monitoring. Dust meter has been commonly used for measuring 1-hour TSP levels in a number of designated projects of major infrastructure works. The proposed use of direct reading dust meter was submitted to IEC and agreed by the IEC. With the use of direct reading dust meter, it can allow prompt and direct results for the EM&A reporting and the implementation of the event and action plan. The 1-hour sampling was determined on bi-monthly basis by the HVS to check the validity and accuracy of the results measured by direct reading method.

3.5 **Table 3.2** summarises the equipment used in the impact air quality monitoring programme. Copies of calibration certificates are attached in **Appendix C**.

Table 3.2 Air Quality Monitoring Equipment

Equipment	Model and Make	Quantity
Dust Monitor	SIBATA (LD-3B)	2

3.6 Meteorological information was extracted from "Hong Kong Observatory - General Weather Conditions during the Monitoring Period (June 2023)" in **Appendix G** as the alternative method to obtain representative wind data.

3.7 The weather conditions (i.e. sunny, cloudy or rainy) were recorded by the field staff as well during the monitoring days.

Monitoring Parameters, Frequency and Duration

3.8 **Table 3.3** summarises the monitoring parameters and frequencies of impact dust monitoring during the Works Contracts activities. The air quality monitoring schedule for the reporting month is shown in **Appendix D**.

Table 3.3 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

3.9 Direct reading dust meter was deployed for the air quality monitoring as shown in **Table 3.2**.

3.10 The measuring procedures of the dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

- When the Model LD-3B is turned on, the set time displayed at the bottom left of the liquid crystal display is [01 min].

- When the start/stop switch is pressed once at this time, a measurement of 1minute is taken. The length of the measurement will depend on the time that is set and displayed.

- A down timer is displayed at the bottom right of the liquid crystal display

Maintenance/Calibration

3.11 The following maintenance/calibration was required for the direct dust meters:

- Check and calibrate the dust meter by High Volume Sampler (HVS) to check the validity and accuracy of the results measured by direct reading method. Calibration of dust meter

should be carried out on a bi-monthly basis throughout all stages of the air quality monitoring.

- The correlation of dust meter and HVS in TSP measurement was obtained by direct comparison of the weight of dust particle trapped in a filter paper using HVS with the reading of the dust meter. Calibration of the dust meter with HVS should be powered on and off at the same location and the same time.
- The correlation coefficient was checked to establish the correlation relationship between the dust meter and HVS. The correlation factor was determined by comparing the results of HVS and dust meter.
- Checking is made prior to dust monitoring commencing to ensure all equipment is in good working condition with necessary power supply. Zero count test were conducted before and after each monitoring event.

Results and Observations

3.12 The monitoring results for 1-hour TSP monitoring are summarised in **Table 3.4**. Detailed monitoring results and graphical presentations of 1-hour TSP monitoring results are shown in **Appendix E**.

Table 3.4 Summary Table of 1-hour TSP Monitoring Results during the Reporting Month

Monitoring Station	**Concentration ($\mu g/m^3$)**		**Action Level, $\mu g/m^3$**	**Limit Level, $\mu g/m^3$**
	Average	**Range**		
AM1	51	42 – 63	308	500
AM2	57	43 – 74	311	

3.13 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedances were recorded.

3.14 According to our field observations, the major dust source identified at the designated air quality monitoring stations in the reporting month are shown in **Table 3.5:**

Table 3.5 Observation at Dust Monitoring Stations

Monitoring Station	**Major Dust Source**
AM1	Road traffic, exposed site area, site vehicle / equipment operation and movement
AM2	Road traffic, exposed site area, site vehicle / equipment operation and movement, vehicle / equipment operation and movement at warehouse nearby

Event and Action Plan

3.15 Should project-related non-compliance of the criteria occur, action in accordance with the Event Action Plan in **Appendix I** shall be carried out.

4 NOISE MONITORING

Monitoring Requirements

4.1 In accordance with EM&A Manual, construction noise monitoring was conducted in terms of the A-weighted equivalent continuous sound pressure level (Leq) to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and one set of measurements between 0700 and 1900 hours on normal weekdays shall be conducted. **Appendix B** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Location

4.2 According to Section 3.2.3 of the EM&A Manual, impact noise monitoring was conducted at fourteen designated noise monitoring stations. With reference to the principle of EIA report of the Project, noise monitoring station within 300 m from the boundary of this Project are considered. In such regard, six noise monitoring stations as shown in **Figure 3** as relevant monitoring locations. Table 4.1 describes the locations of the noise monitoring stations.

Table 4.1 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

4.3 Integrating Sound Level Meters were used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (Leq) and percentile sound pressure level (Lx) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 4.2** summarises the noise monitoring equipment being used. Copies of calibration certificates are attached in **Appendix C**.

Table 4.2 Noise Monitoring Equipment

Equipment	**Model**	**Quantity**
Sound Level Meter	RION NL-52	1
Sound Calibrator	RION NC-73	1

Monitoring Parameters, Frequency and Duration

4.4 **Table 4.3** summarises the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Table 4.3 Noise Monitoring Parameters, Duration and Frequency

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

Remarks:

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

[2]: 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.

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

4.5 The monitoring procedures are as follows:

- The sound level meter was set on a tripod at a point 1m from the exterior of the noise sensitive facade and at the position of 1.2m above the ground;
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. Free field noise levels were adjusted with a correction of +3 dB(A);
- The battery condition was checked to ensure the correct functioning of the meter;
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

— frequency weighting : A

— time weighting : Fast

— time measurement : Leq(30 min.) dB(A)
(as six consecutive Leq, 5min readings) during non-restricted hours (i.e. 0700-1900 hrs on normal weekdays)

- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more

than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re- calibration or repair of the equipment;

- During the monitoring period, the Leq, L90 and L10 were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet;
- Noise measurement was paused temporarily during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible and observation record during measurement period should be provided; and
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. The wind speed should be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Maintenance and Calibration

4.6 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.

4.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.

4.8 Immediately prior to and following each noise measurement, the accuracy of the sound level meter should be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements would be accepted as valid only if the calibration levels before and after the noise measurement agreed to within 1.0 dB.

Results and Observations

4.9 The noise monitoring results are summarised in Table 4.4. Detailed monitoring results and graphical presentations of noise monitoring are shown in **Appendix F**. The weather information for the reporting month is summarised in **Appendix G**.

Table 4.4 Summary Table of Noise Monitoring Results during the Reporting Month

Monitoring Station	Average	Range	Baseline Level	Limit Level
	Leq (30 min) dB(A)	Leq (30 min) dB(A)	dB(A)	dB(A)
NM9[1]	61.1	58.9 – 63.4	55.9	75
NM10[1]	52.0	50.4 – 54.4	52.8	
NM11	51.1	48.8 – 55.1	46.4	
NM12	51.2	49.6 – 53.4	54.7	
NM13[1]	53.8	51.7 – 55.9	61.3	
NM14[1]	50.1	48.5 – 52.0	59.6	

Remarks:

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

4.10 Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The summary of exceedance record in reporting month is shown in **Appendix J**.

4.11 According to our field observations, the major noise sources identified at the designated noise monitoring stations in the reporting month are as follows:

Table 4.5 Observation at Noise Monitoring Stations

Monitoring Station	Major Noise Source
NM9	Road traffic, excavation works, loading & unloading
NM10	Road traffic, excavation works, loading & unloading
NM11	Road traffic
NM12	Road traffic, loading & unloading
NM13	Road traffic, loading & unloading
NM14	Road traffic, dog barking

Event and Action Plan

4.12 Should any project related to non-compliance of the criteria occur, action in accordance with the Event Action Plan in Appendix I shall be carried out.

5 ECOLOGICAL MONITORING

Monitoring of Flora Species of Conservation Interest

5.1 As required under Section 8.3.2 of EM&A Manual, during construction phase, temporary protective fence shall be erected enclosing the flora species of conservation interest identified under the detailed vegetation survey. The temporary protective fence shall be properly maintained and monitored for the effectiveness. Monthly monitoring of individual of flora species of conservation interest identified in the detailed vegetation survey shall be conducted during the construction phase to make sure that the flora species of conservation interest are not affected by the construction activities of the Project.

5.2 The purpose of the monitoring is to monitor the timely implementation of proper environmental management practices and mitigation measures for the retained and transplanted individuals of flora species of conservation interest. Proper erection and maintenance of the temporary protective fence enclosing the individuals was inspected for the effectiveness. The recommended protection measures in the implementation schedule as stated in approved transplantation proposal were monitored and the conditions of the individuals of flora species of conservation interest were recorded as shown in Table 5.1.

5.3 According to the approved detailed vegetation survey report and transplantation proposal, 71 individuals of Brainea insignis, 41 individuals of Spiranthes sinensis and 3 individuals of Aquilaria sinensis were identified to be transplanted to the receptor site. 51 individuals of Keteleeria fortunei, 26 undersized seedlings of Keteleeria fortunei and 7 undersized seedlings of Aquilaria sinensis were identified to be retained along Kong Nga Po Road near Police Dog Unit and Force Search Unit Training School.

Post-Transplantation Monitoring and Maintenance Programme

5.4 According to approved transplantation proposal, post-transplantation monitoring should be conducted by the Contractor once per week in the first three months and once per month afterwards during the 12-month establishment period and the post-establishment period until the end of construction phase of the Project. Regular monitoring allows early detection of the growth status of transplanted species, sign of construction activity within and nearby the receptor site, and any environmental change of the receptor site.

5.5 Maintenance works were recommended for the first year of establishment to allow health growth of the transplanted species. In view of the condition of transplanted individuals after the 12-month establishment period, maintenance works were recommended to extend during the Post-establishment Period until the end of Construction Phase. Watering was recommended in daily practice during the first three months after the transplantation and

during the dry season. Watering frequency may be reduced to at least twice a week and adjusted based on the plant condition to keep the soil moist. Other maintenance works like the use of mulch and weeding shall be conducted if required.

Results and Observations

5.6 Monthly monitoring of flora species of conservation interest was conducted by the Contractor on 30th June 2023 during the reporting month. The implementation status of protection measures as stated in the approved transplantation proposal and the maintenance of temporary protective fence were inspected. The implementation status of protection measures is shown in **Table 5.1** and photographic record and checklists for monthly monitoring are shown in **Appendix H**. The health conditions of the transplanted / retained species are generally in fair and poor condition. The Contractor was reminded to closely monitor the transplanted species and implement the protection measures according to the approved transplantation proposal to protect the transplanted / retained species. In addition, the Contractor was also advised of the following:

1) To arrange the new tags for those Brainea insignis with missing tags;
2) To replace the faded plant labels identified in the receptor site.
3) To 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.
4) To install shaded nets

Transplanted *Brainea insignis and Spiranthes sinensis*

5.7 71 individuals of Brainea insignis and 41 individuals of Spiranthes sinensis were transplanted to receptor site from 21st to 26th May 2020. Transplantation Report recording the process of transplantation has been submitted to ET(Wellab), IEC(Acuity) and the Supervisor (AECOM) for review and record. Post-transplantation monitoring was conducted once per week in the first three months (June to August 2020) and once per month during the 12-month establishment period and the post-establishment period until the end of construction phase of the Project. The health condition of the transplanted species was monitored by the Contractor. The Contractor provided maintenance works including watering, use of mulch and weeding in the first year of establishment to allow health growth of the transplanted species. Post-transplantation monitoring on transplanted Brainea insignis and Spiranthes sinensis was conducted on 27th June 2023 during the reporting month and the post-transplantation monitoring record is shown in **Appendix H**. The health condition of the transplanted Brainea insignis affected by bushfire on 2nd February 2021 was closely monitored and reported in the post-transplantation monitoring records. The health conditions of the retained species are generally in fair condition. The Contractor was reminded to closely monitored the retained species and implemented the protection measures to protect the retained species.

5.8 During monthly monitoring, no construction activity and equipment storage was observed within the receptor site. Temporary protective fence was properly erected and maintained for the transplanted species.

Table 5.1 Implementation Status of Protection Measures for Flora Species of Conservation Interest

Recommended Mitigation Measures	Implementation Status
Brainea insignis	
Identification of Plant Species of Conservation Importance to be Retained / Transplanted	^
To mark trees/plants proposed to be retained and to be transplanted on the layout plan prior to commencement of site construction works.	
Protection of Plant Species of Conservation Importance prior to Site Clearance / Transplantation Works	
a) No site clearance shall be started at the locations of flora species of conservation interest until the transplantation works completed.	**N/A**
b) Set up buffer zone to enhance the protection of flora species of conservation importance to be preserved / transplanted including the proposed location for transplantation when the site clearance works shall commence before the transplantation works completed.	**N/A**
Temporary Protective Fence for Flora Species of Conservation Interest / Retained Tree	
a) To erect a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey.	^
b) To set up a protection zone at least 1m from the plant / retained tree and erect robust, bright-coloured fencing of 1.5m in height.	^
Maintenance of the Protection Zone for Flora Species of Conservation Interest / Retained Tree	
a) Monthly monitoring of flora species of conservation interest identified in the detailed vegetation survey should be conducted.	^
b) To inspect the temporary protective fence whether it is properly erected and maintained during construction.	^
Post-transplantation Monitoring	
a) Weekly post-transplantation monitoring of transplanted species in the first three months and monthly afterwards.	^
Maintenance of Transplanted Species	
a) To keep the soil moist by watering the receptor sites properly and adequately.	^
b) To apply mulches on the soil surface over the plant root system, if required.	^
c) To remove unwanted weeds found in receptor sites.	^
Other Protection Measures for Flora Species of Conservation Interest / Retained Tree / Vegetated Areas	
a) All works should be confined within the site boundary.	^
b) Access of site staff should be controlled.	^
c) Care should be taken to prevent trees/plants being damaged by mechanical equipment or stockpile both during site clearance works and construction works.	^
d) No fixings should be driven into trees/plants.	^

e) No workshop, canteens, or similar should be installed beneath trees/plants, nor will equipment maintenance etc. be carried out under trees/plants.	^
f) No excavation, including that for services or changes in ground level will take place within the spread of the crown of the trees / plants.	^
g) No soil, debris or construction materials should be deposited around and against the trunk of a tree/plant as this causes bark damage and compaction of the soil.	^
h) No fire should be lit below the branches and no petrol, oil or caustic substances stored near the trees/plants.	^
i) No trees/plants should be used for anchoring or winching purposes or for the display of signs.	^
j) Any damage or injury to the retained / transplanted plants should be reported as soon as possible for repair immediately.	^
Spiranthes sinensis	
Identification of Plant Species of Conservation Importance to be Retained / Transplanted	
To mark trees/plants proposed to be retained and to be transplanted on the layout plan prior to commencement of site construction works.	^
Protection of Plant Species of Conservation Importance prior to Site Clearance / Transplantation Works	
a) No site clearance shall be started at the locations of flora species of conservation interest until the transplantation works completed.	**N/A**
b) Set up buffer zone to enhance the protection of flora species of conservation importance to be preserved / transplanted including the proposed location for transplantation when the site clearance works shall commence before the transplantation works completed.	**N/A**
Temporary Protective Fence for Flora Species of Conservation Interest / Retained Tree	
a) To erect a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey.	^
b) To set up a protection zone at least 1m from the plant / retained tree and erect robust, bright-coloured fencing of 1.5m in height.	^
Maintenance of the Protection Zone for Flora Species of Conservation Interest / Retained Tree	
a) Monthly monitoring of flora species of conservation interest identified in the detailed vegetation survey should be conducted.	^
b) To inspect the temporary protective fence whether it is properly erected and maintained during construction.	^
Post-transplantation Monitoring	
a) Weekly post-transplantation monitoring of transplanted species in the first three months and monthly afterwards.	^
Maintenance of Transplanted Species	
a) To keep the soil moist by watering the receptor sites properly and adequately.	^
b) To apply mulches on the soil surface over the plant root system, if required.	^
c) To remove unwanted weeds found in receptor sites.	^
Other Protection Measures for Flora Species of Conservation Interest / Retained Tree / Vegetated Areas	
a) All works should be confined within the site boundary.	^
b) Access of site staff should be controlled.	^
c) Care should be taken to prevent trees/plants being damaged by mechanical equipment or stockpile both during site clearance works and construction works.	^

d) No fixings should be driven into trees/plants.	^
e) No workshop, canteens, or similar should be installed beneath trees/plants, nor will equipment maintenance etc. be carried out under trees/plants.	^
f) No excavation, including that for services or changes in ground level will take place within the spread of the crown of the trees / plants.	^
g) No soil, debris or construction materials should be deposited around and against the trunk of a tree/plant as this causes bark damage and compaction of the soil.	^
h) No fire should be lit below the branches and no petrol, oil or caustic substances stored near the trees/plants.	^
i) No trees/plants should be used for anchoring or winching purposes or for the display of signs.	^
j) Any damage or injury to the retained / transplanted plants should be reported as soon as possible for repair immediately.	^

Implementation status:	^	Mitigation measure was fully implemented
	*	Observation/reminder was made during monitoring but improved/rectified by the contractor
	#	Observation/reminder was made during monitoring but not yet improved/rectified by the contractor
	X	Non-compliance of mitigation measure
	•	Non-compliance but rectified by the contractor
	N/A	Not Applicable at this stage as no such site activities were conducted in the reporting period

Precautionary Measure for Butterfly Species of Conservation Interest

5.9 According to FEP Condition 2.17, with consideration of minimizing impact on butterfly species of conservation interest, the re-establishment of the new grassland areas in the Project site shall be enhanced, through planting of appropriate plant species which are the larval food plants of butterfly species of conservation interest such as Small Three-Ring, in order to benefit these species.

5.10 The re-establishment of grassland areas in the Project shall be implemented before Commencement of Operation of the Project. Details of the plant species as larval food plants of butterflies including design and implementation arrangement will be further submitted under ArchSD's building works contract.

Precautionary Measures to Minimize Indirect Disturbance on Ecology

5.11 In accordance with Section 9.7.3 of EIA Report, mitigation measures for air, noise, water, waste and landscape aspects could act as precautionary measures to prevent and minimize any indirect disturbance impact or pollution arisen from the construction activities on the local ecology and offsite habitats. Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures on the Project site and the observations are summarised in Section 7.3.

6 LANDSCAPE AND VISUAL MONITORING

Monitoring Requirements

6.1 The EIA Report has recommended mitigation measures for landscape and visual resources to be undertaken during the construction and operation phases of the Project.

6.2 These measures include the consideration of a number of development options and the provision of mitigation measures to directly offset unavoidable impacts. The measures include strategies for reducing, offsetting and compensating impacts during construction and operation phases according to Section 10.13 in the EIA Report.

6.3 The implementation and maintenance of landscape compensatory planting measures is a key aspect of this and shall be checked to ensure that they are fully realised and that potential conflicts between the proposed landscape measures and any other Project works and operational requirements are resolved at the earliest possible date and without compromise to the intention of the mitigation measures. In addition, implementation of the mitigation measures recommended by the EIA shall be monitored throughout the construction phase site audit programme.

6.4 Bi-weekly inspection of the implementation of landscape and visual mitigation measures was conducted by ET during weekly site audit. The observation and recommendations made during the audit sessions are summarised in Table 7.1. The implementation status is given in Appendix K.

7 ENVIRONMENTAL SITE INSPECTION

Site Audits

7.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures on the Contract site.

7.2 Site audits were conducted by ET with the representative of the Engineer's Representative and the Contractor on 6, 14, 20, 27 June 2023 in the reporting month. Site audits with the representative of the Contractor and IEC were carried out on 14th June 2023.

7.3 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit sessions are summarised in **Table 7.1**.

Table 7.1 Observations of Weekly site Inspection and Follow Up Action

Parameters	Date	Observations	Follow Up Action
Air Quality	7/6/2023	Covering 80% of stockpiling area by impervious sheets	Stockpiles removed
Construction Noise Impact	--	No environmental deficiency was identified during the reporting month.	--
Water Quality	20/6/2023	Storage of chemicals should be in accordance with the code of practice on the packaging	Chemicals removed.
Waste/ Chemical Management	--	No environmental deficiency was identified during the reporting month.	--
Landscape and Visual	--	No environmental deficiency was identified during the reporting month.	--
Ecology	--	No environmental deficiency was identified during the reporting month.	--
Permit /Licences	--	No environmental deficiency was identified during the reporting month.	--

Implementation Status of Environmental Mitigation Measures

7.4 According to the EIA Report, Environmental Permit and the EM&A Manual of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix K**.

Solid and Liquid Waste Management Status

7.5 In accordance with the EM&A Manual, waste management was audited during weekly site audit to determine if wastes are being managed in accordance with the Waste Management Plan (WMP) prepared for the Project and the relevant legislative and contractual requirements. Waste management practice including waste handling, storage, transportation, and disposal were audited.

7.6 The Contractor has nominated on-site Environmental Officers to oversee the environmental management, pollution control measures, good site practices and training of site personnel in waste management. Proactive measures have been undertaken to make use of construction and demolition (C&D) materials to minimize the waste generated. On-site sorting and screening of excavated materials have been carried out to recover any recyclable portions. Inert C&D materials were used on-site for backfilling works and hard paving of haul road. In addition, inert C&D materials generated from excavation works were reused as fill materials in other local projects. The surplus inert C&D materials were disposed of at the Government's public fill reception facilities (PFRFs) for beneficial use by other projects. In order to monitor the disposal of inert and non-inert C&D materials and to control fly-tipping, every excavated materials before leaving the site is weighted by a weight bridge and Trip Ticket System is strictly followed.

7.7 The Contractors are advised to minimize the wastes generated through the recycling or reusing. All mitigation measures stipulated in the EM&A Manual and waste management plans shall be fully implemented. The status of implementation of waste management and reduction measures is summarised in **Appendix K.**

7.8 Waste generated from this Project includes inert C&D materials and non-inert C&D materials. Non-inert C&D materials are made up of general refuse and waste that cannot be reused or recycled and has to be disposed of at the designated landfill sites. The amount of wastes generated by the construction works of the Project during the reporting month is shown in **Appendix L**.

8 ENVIRONMENTAL NON-CONFORMANCE

Summary of Exceedances

8.1 No exceedance of Action and Limit Levels of air quality was recorded in the reporting month.

8.2 No exceedance of Action and Limit Levels of construction noise was recorded in the reporting month.

8.3 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that the Action / Limit Levels are exceeded, the actions in accordance with the Event and Action Plans in **Appendix I** be carried out. The summary of exceedance record in reporting month is shown in **Appendix J**.

Summary of Environmental Non-Compliance

8.4 No environmental non-compliance was recorded in the reporting month.

Summary of Environmental Complaint

8.5 In accordance with the EM&A Manual, Section 11.3, complaints should be referred to the ET for action. During the complaint investigation works, the ET and IEC as established according to EP Condition 2.1 and 2.6 can carry out Ad-hoc site inspections to identify the source of the complaint, review the effectiveness of the Contractor's remedial measures and the updated situation once received the complaint. In addition, additional monitoring and audit can also be arranged immediately to verify the situation if necessary. ET and IEC will also oversee the circumstances that leading to the complaint do not recur. Moreover, ET and IEC can cooperate efficiently with the Contractor and Supervisor on site for completion of the investigation.

8.6 There was no environmental complaint received in the reporting month. The Cumulative Complaint Log since the commencement of the Project is presented in **Appendix M**.

Summary of Environmental Summon and Successful Prosecution

8.7 There was no successful environmental prosecution or notification of summons received since the Project commencement. The Cumulative Log for environmental summon and successful prosecution since the commencement of the Project is presented in **Appendix N**.

9 FUTURE KEY ISSUES

Key Issues in the Coming Three Months

9.1 The tentative construction programmes for the Project are provided in **Appendix A**. The major construction activities undertaken in the coming three months will include:

- Setting-up of site office
- Open cut excavation
- Removal of soil
- Construction of footings
- Pre-bored socketed-H Piling
- U.U. Lead in and Pipe Duct Connection

9.2 With reference to the site layout plan including the indication of coming three months construction site activities in **Appendix A**, potential environmental impacts arising from the above construction activities are mainly associated with construction dust, noise, water quality, waste management, landscape and visual and ecology. The foreseeable environmental impacts were taken into consideration of the planned mitigation measures in the coming months.

9.3 The mitigation measures to be implemented for the coming three months were proposed by the Contractor and reviewed by ET, IEC and the Engineers through Email, during site audit and SSEMC meeting. The Proactive Environmental Protection Proforma summarizing the major site activities, potential environmental impacts and recommended mitigation measures was reviewed and endorsed by the Engineers, ET and IEC and was shown in **Appendix A**.

9.4 Dust can be generated during construction works and exposed site area during dry weather. To prevent high dust concentrations during the dry weather, the Contractor should pay attention on the air quality mitigation measures as far as practicable to minimise the dust impact to the villages which are located adjacent to the Project works (refer to the layout plan in **Appendix A**). The Contractor was also reminded to follow the Project Implementation Schedule in approved EIA report / EM&A Manual to implement appropriate dust control measure including “Use of regular water spraying (once every 1.25 hours or 8 times per day) to reduce dust emissions from heavy construction activities (including ground excavation, earth moving, etc.) at all active works area exposed site surfaces and unpaved roads, particularly during dry weather and 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” as well as the relevant dust control practices as stipulated in the Air Pollution Control

(Construction Dust) Regulation so that no adverse dust impact arising from the Project works site.

9.5 In addition, construction noise is also one of the key environmental issues during construction of the Project. Noise mitigation measures such as using quiet plants and noise barriers should be in place, where applicable. In addition, the Contractor was reminded to frequently check and maintain the acoustic materials wrapped on noisy part of PME and ensure no gaps between noise barriers; proactively identify any potential construction noise impact to NSRs and provide sufficient mitigation measures if necessary; and provide notification to nearby villagers in Kong Nga Po for potential noisy works at works area.

9.6 The Contractor is also recommended to maintain water quality mitigation measures during construction works. The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap. The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates. Efficient silt removal facilities shall be deployed to ensure all treated effluent from wastewater treatment plant shall meet the requirements as stated in WPCO licences. The site drainage plan shall also be updated based on the site condition and construction programme.

Monitoring Schedule for the Next Month

9.7 The tentative environmental monitoring schedule for the next month is shown in **Appendix D**.

10 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

10.1 This Monthly EM&A Report presents the EM&A work undertaken in June 2023 in accordance with EM&A Manual.

10.2 No Action/Limit Level exceedance was recorded for air quality monitoring in the reporting month.

10.3 No Action/Limit Level exceedance was recorded for construction noise monitoring in the reporting month.

10.4 Environmental site inspections were conducted on 6, 14, 20, 27 June 2023 and landscape and visual monitoring was carried out on 6, 13 June whereas ecological monitoring was carried out on 27 June by ETL in the reporting month. No environmental non-compliance was recorded in the reporting month.

10.5 No environmental complaint, notification of summons or successful prosecutions was received in the reporting month.

10.6 The ET would keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Recommendations

10.7 According to the environmental audits performed in the reporting month, the following recommendations were made:

Air Quality Impact

- To maintain the cover for stockpile of dusty materials and exposed slope for dust suppression;
- To enhance the dust suppression measures including watering for the dust generation works, exposed site area and haul road;
- To regular check the valid NRMM labels are properly displayed on the regulated machines and non-road vehicles; and
- To maintain the wheel washing facilities provided at every construction site exit where practicable are functioning properly.

Construction Noise

- To keep inspect the noise sources inside the site;
- To keep space out noisy equipment and position the equipment as far away as possible from sensitive receivers; 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;
- To maintain and ensure the silt removal facilities are functioning properly;
- To maintain the wheel washing facilities provided at every construction site exit where practicable are functioning properly; 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;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site;
- To maintain the drip tray well to prevent oil and chemical leakage; and
- To avoid improper handling, storage and dispose of oil drums or chemical containers on site.

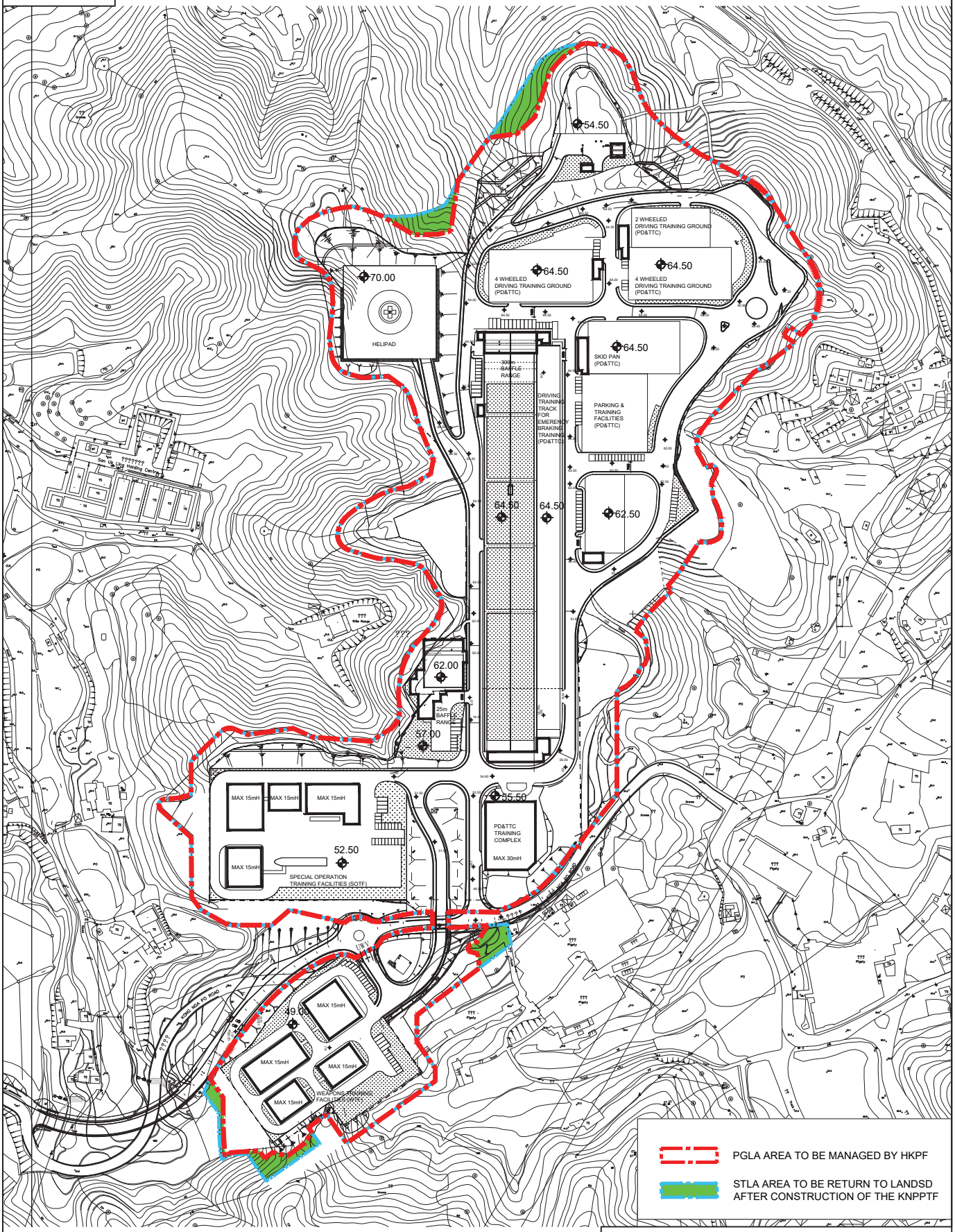
Ecology

- To erect and maintain the protection fence around the retained trees / conservation species;
- To keep the tree protection zone large enough to protect the tress; and
- To remove the construction materials within the tree protection zone.

Landscape and Visual

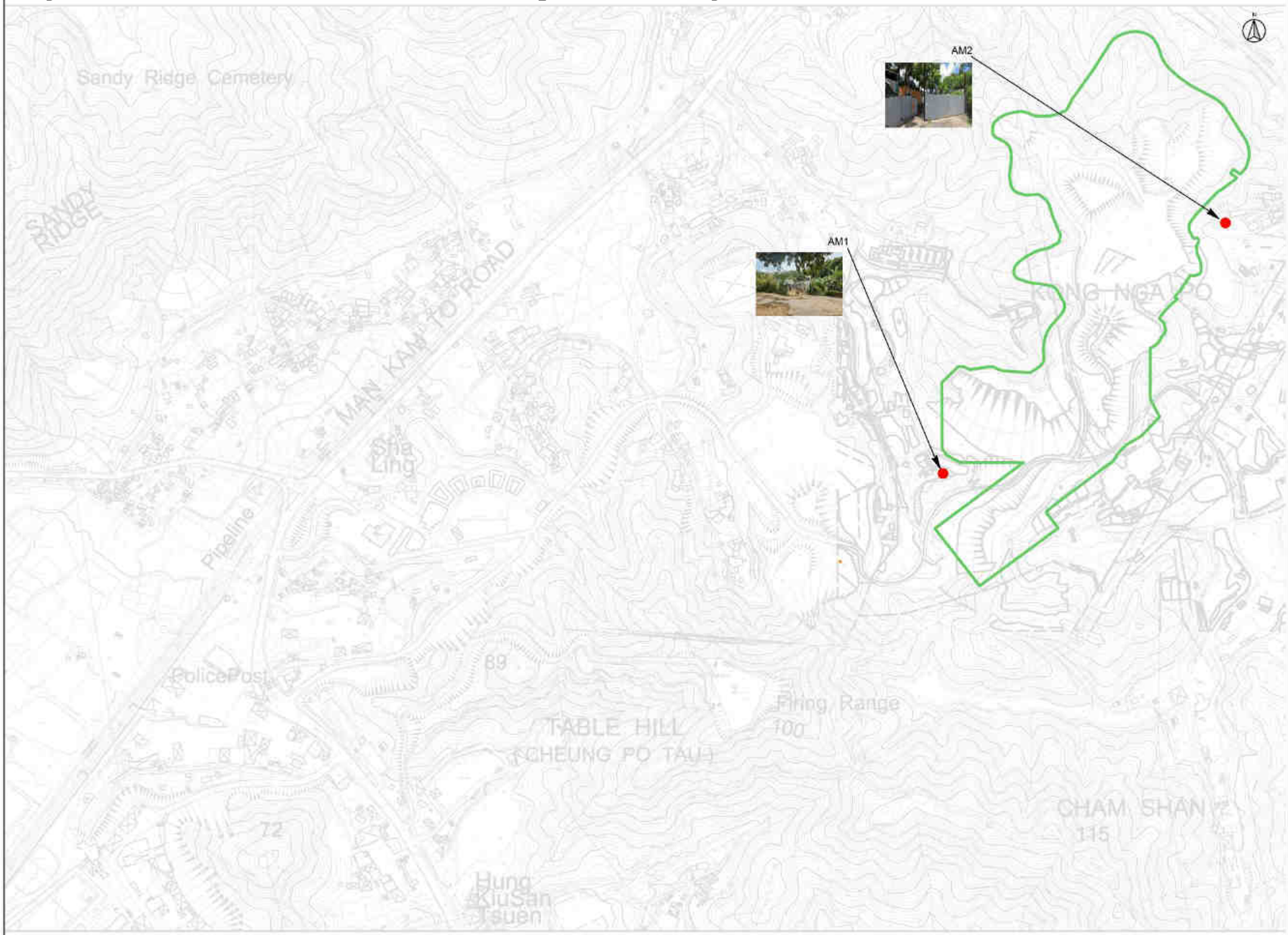
- To erect and maintain the protection fencing and tree protection zone around the preserved trees;
- To remove the construction materials within the tree protection zone; and
- To keep the tree protection zone large enough to protect the tress.

FIGURE(S)



MASTER LAYOUT PLAN	PROJECT CODE: 3279LP PROPOSED MLP FOR KONG NGA PO TRAINING FACILITIES	DRAWING NO. PMB/8480/XA001	SCALE: 1:400 DATE: AUGUST 2021	ARCHITECTURAL SERVICES DEPARTMENT 建 築 署

Figure 2 Location of Air Quality Monitoring Stations



KEY PLAN
SCALE : 1:50000

LEGEND
KONG NGA PO SITE BOUNDARY
AIR QUALITY MONITORING STATIONS

AIR QUALITY MONITORING STATIONS	
I.D	Description
AM1	Village House, Kong Nga Po
AM2	Village House, Kong Nga Po

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Environmental Team
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Rev.	Description	Date
2	SECOND ISSUE	03/2023
1	FIRST ISSUE	02/2023

Project Title
PROVISION OF ENVIRONMENTAL TEAM CONSULTANCY FOR DESIGN AND CONSTRUCTION OF KONG NGA PO POLICE TRAINING FACILITIES

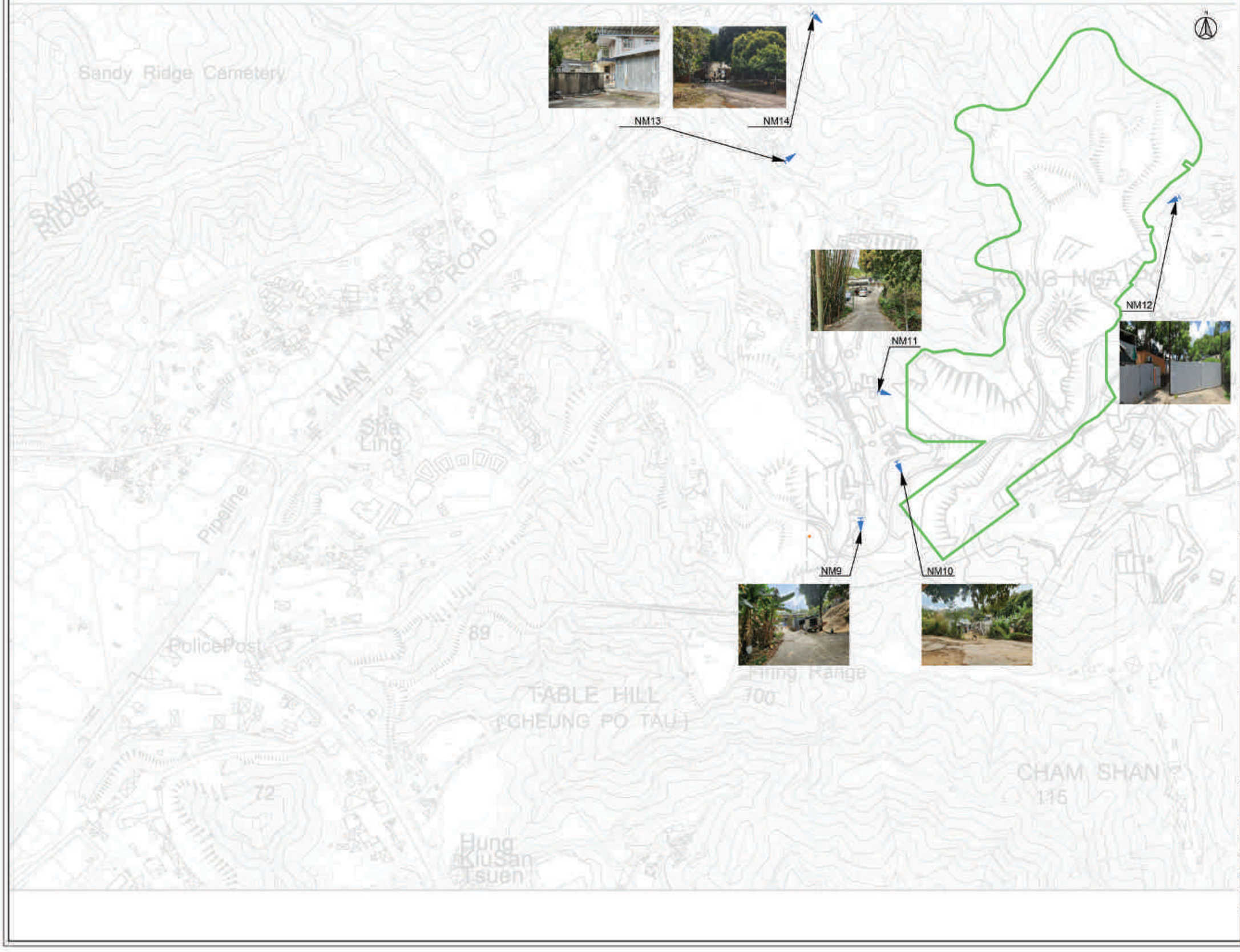
Drawing Title
KONG NGA PO ROAD
AIR QUALITY MONITORING STATIONS

Drawing Status

Project Ref.	File Ref.
Drawn by JC	Checked by RH
Scale 1:40000	Paper Size A3
Date	Revision -

Drawing Number
KASHING-KNPR-ENVG-030

Figure 3 Location of Noise Monitoring Stations



KEY PLAN
SCALE: 1:50000

NOISE MONITORING STATIONS	
I.D.	Description
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

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Rev	Description	Date
2	SECOND ISSUE	23/2023
1	FIRST ISSUE	23/2023

Project Title
PROVISION OF ENVIRONMENTAL TEAM CONSULTANCY FOR DESIGN AND CONSTRUCTION OF KONG NGA PO POLICE TRAINING FACILITIES

Drawing Title
KONG NGA PO ROAD
NOISE MONITORING STATION

Project Ref.	File Ref.
Drawn by: JC	Checked by: RH
Scale: 1:40000	Paper Size: A3
Date:	Revision:

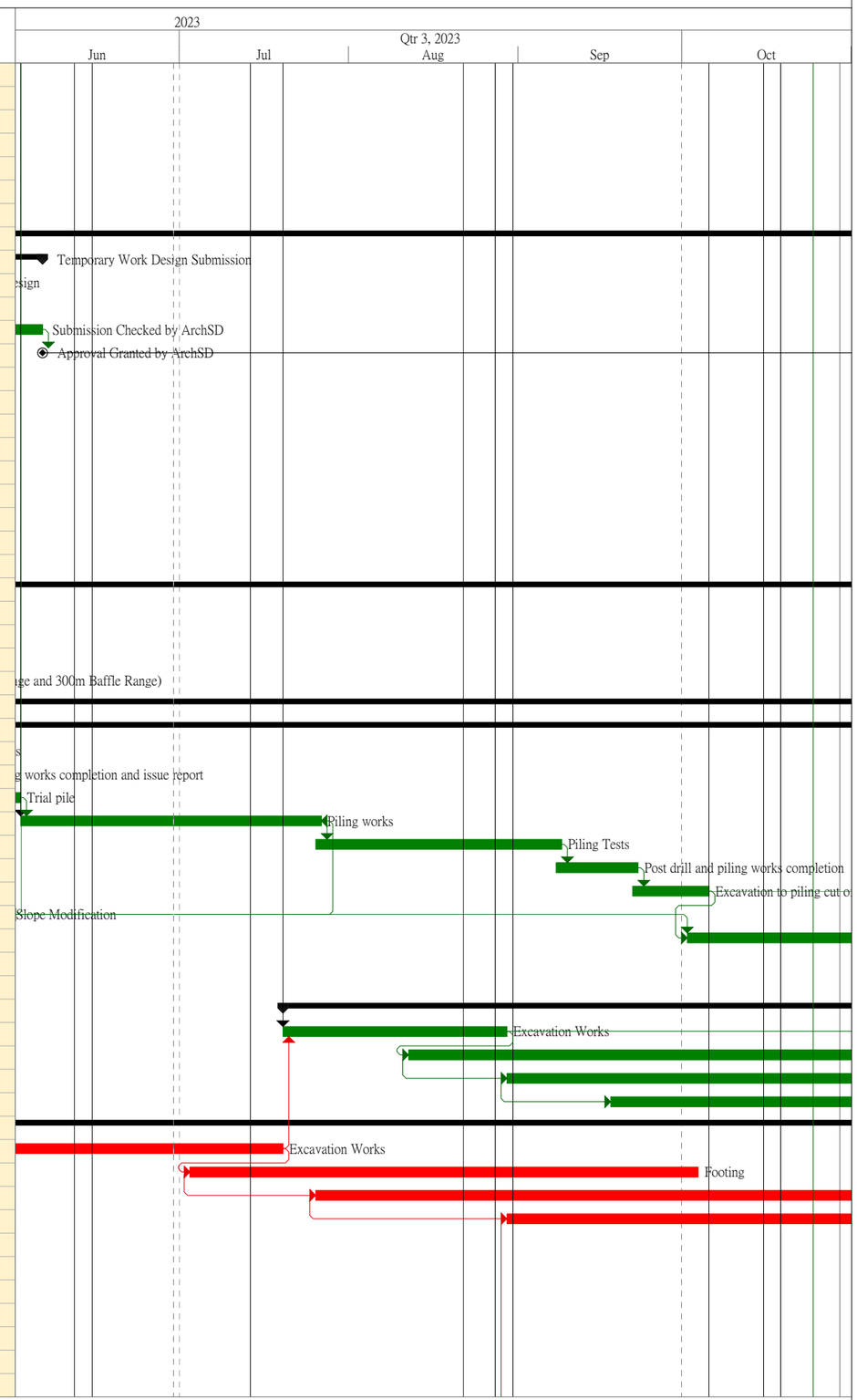
Drawing Number
KASHING-ENPR-DWG-003

APPENDIX A
CONSTRUCTION PROGRAMME AND PROACTIVE ENVIRONMENTAL PROTECTION PROFORMA

Construction Programme
(Jul – Sep 2023)

Design & Construction of Kong Nga Po Police Training Facilities
Master Programme (MP)

ID	Task	Duration	Start	Finish	Total Slack	Time Risk Allowance
1027	Submission to Design Checker	0 d	Tue 27/12/22	Tue 27/12/22	1087 d	0 d
1028	Checking by Design Checker	7 d	Wed 28/12/22	Thu 5/1/23	1087 d	**0 d**
1029	Submission to ArchSD	0 d	Thu 5/1/23	Thu 5/1/23	1087 d	0 d
1030	Assessment of Proposal by ArchSD	21 d	Fri 6/1/23	Mon 30/1/23	1087 d	0 d
1031	Approval by ArchSD	0 d	Mon 30/1/23	Mon 30/1/23	1087 d	0 d
1032	Installation of Monitoring Stations	18 d	Tue 31/1/23	Mon 27/2/23	1087 d	0 d
1033	Complete Monitoring Station Installation	0 d	Mon 27/2/23	Mon 27/2/23	1087 d	0 d
1034	Major Plant & Equipment	448 d	Wed 12/4/23	Tue 2/7/24	813 d	
1035	Temporary Work Design Submission	55 d	Wed 12/4/23	Mon 5/6/23	1231 d	
1036	Prepare Temporary Work Design	14 d	Wed 12/4/23	Tue 2/5/23	1003 d	0 d
1037	Submission to ArchSD	0 d	Tue 2/5/23	Tue 2/5/23	1003 d	0 d
1038	Submission Checked by ArchSD	28 d	Wed 3/5/23	Mon 5/6/23	1003 d	0 d
1039	Approval Granted by ArchSD	0 d	Mon 5/6/23	Mon 5/6/23	1003 d	0 d
1040	Tower Cranes	223 d	Thu 23/11/23	Tue 2/7/24	588 d	
1041	Tower Crane TC1 Installation	5 d	Thu 23/11/23	Tue 28/11/23	862 d	0 d
1042	Tower Crane TC1 Dismantling	5 d	Wed 26/6/24	Tue 2/7/24	300 d	0 d
1043	Material Hoists	93 d	Mon 25/3/24	Tue 25/6/24	850 d	
1044	Material Hoist MH1 Installation	5 d	Mon 25/3/24	Fri 29/3/24	765 d	0 d
1045	Material Hoist MH1 Dismantling	5 d	Thu 20/6/24	Tue 25/6/24	696 d	0 d
1046	Refuse Chutes & Collection Chambers	93 d	Mon 25/3/24	Tue 25/6/24	850 d	
1047	Refuse Chute RC1 Installation	5 d	Mon 25/3/24	Fri 29/3/24	765 d	0 d
1048	Refuse Chute RC1 Dismantling	5 d	Thu 20/6/24	Tue 25/6/24	696 d	0 d
1049	**Foundation and Substructure Construction**	**504 d**	**Thu 19/1/23**	**Wed 5/6/24**	**120 d**	
1050	ELS, Foundation and Substructure Works	87 d	Thu 19/1/23	Sat 15/4/23	265 d	
1051	Ground Investigation	30 d	Tue 31/1/23	Wed 1/3/23	253 d	0 d
1052	Soil Redistribution	40 d	Thu 19/1/23	Mon 27/2/23	1334 d	0 d
1053	Plate load test (WTF / SOTF / 25m Baffle Range and 300m Baffle Range)	45 d	Thu 2/3/23	Sat 15/4/23	1287 d	0 d
1054	Section 1 Works	267 d	Fri 14/4/23	Fri 5/1/24	35 d	
1055	**PD&TTC Block1 (Training Complex)**	**238 d**	**Fri 14/4/23**	**Thu 7/12/23**	**360 d**	
1056	Pre-drilling Works	30 d	Fri 14/4/23	Sat 13/5/23	360 d	0 d
1057	Pre-drilling works completion and issue report	7 d	Sun 14/5/23	Sat 20/5/23	360 d	0 d
1058	Trial pile	12 d	Sun 21/5/23	Thu 1/6/23	360 d	0 d
1059	Piling works	55 d	Fri 2/6/23	Wed 26/7/23	360 d	1 d
1060	Piling Tests	45 d	Wed 26/7/23	Fri 8/9/23	360 d	**0 d**
1061	Post drill and piling works completion	15 d	Fri 8/9/23	Fri 22/9/23	360 d	0 d
1062	Excavation to piling cut off and bottom of pile cap	14 d	Fri 22/9/23	Thu 5/10/23	360 d	0 d
1063	Slope Modification	45 d	Sun 16/4/23	Tue 30/5/23	431 d	0d
1064	Pile caps construction	52 d	Mon 2/10/23	Wed 22/11/23	360 d	1 d
1065	Underground Drainage / Earthing Pits / Lightning Pits	21 d	Fri 3/11/23	Thu 23/11/23	1065 d	0 d
1066	Back Filling, Waterproofing and LG/F Slab	15 d	Thu 23/11/23	Thu 7/12/23	360 d	0 d
1067	**PD&TTC Block 2-8 (Driving Blocks)**	**170 d**	**Thu 20/7/23**	**Fri 5/1/24**	**67 d**	
1068	Excavation Works	35 d	Thu 20/7/23	Tue 29/8/23	56 d	0 d
1069	Footing	84 d	Sat 12/8/23	Tue 21/11/23	56 d	1 d
1070	Underground Drainage / Earthing Pits / Lightning Pits	90 d	Wed 30/8/23	Fri 15/12/23	56 d	1 d
1071	Back Filling, Waterproofing and G/F Slab	90 d	Mon 18/9/23	Fri 5/1/24	56 d	1 d
1072	WTF Block 1-4	220 d	Thu 25/5/23	Sat 30/12/23	-7 d	
1073	Excavation Works	46 d	Thu 25/5/23	Wed 19/7/23	-5 d	0 d
1074	Footing	78 d	Mon 3/7/23	Tue 3/10/23	-5 d	1 d
1075	Underground Drainage / Earthing Pits / Lightning Pits	100 d	Wed 26/7/23	Wed 22/11/23	-5 d	1 d
1076	Back Filling, Waterproofing and G/F Slab	102 d	Wed 30/8/23	Sat 30/12/23	-5 d	1 d
1077	Completion of Foundation and Substructure Works of Section 1	0 d	Fri 5/1/24	Fri 5/1/24	831 d	**0 d**
1078	Section 2 Works	208 d	Sat 11/11/23	Wed 5/6/24	870 d	
1079	Baffle Range	131 d	Sat 11/11/23	Wed 20/3/24	947 d	
1080	Excavation Works	30 d	Sat 11/11/23	Fri 15/12/23	773 d	0 d
1081	Footing	40 d	Sat 16/12/23	Fri 2/2/24	773 d	0 d
1082	Underground Drainage	30 d	Mon 29/1/24	Sat 9/3/24	773 d	0 d
1083	Back Filling, Waterproofing and G/F Slab	14 d	Tue 5/3/24	Wed 20/3/24	773 d	**0 d**



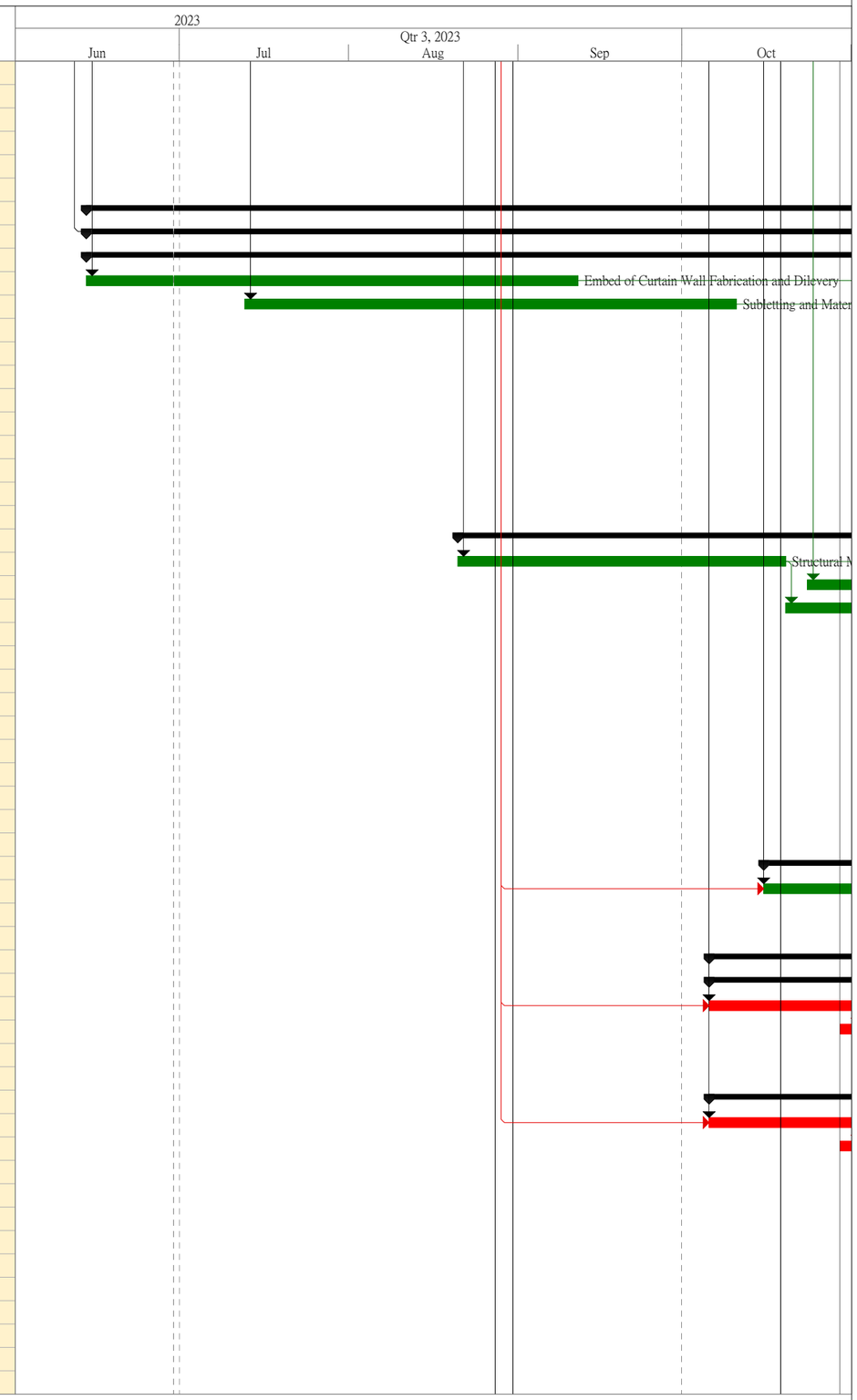
中國建築聯營 CHINA STATE JOINT VENTURE

Task — Summary — Manual Task — Manual Summary — External Tasks
Critical Task — Inactive Milestone — Duration-only — Start-only — External Milestone
Milestone — Inactive Summary — Manual Summary Rollup — Finish-only

Design & Construction of Kong Nga Po Police Training Facilities
Master Programme (MP)

Revision : 02

ID	Task	Durnation	Start	Finish	Total Slack	Time Risk Allowance
1084	SOTF Block 1-4	208 d	Sat 11/11/23	Wed 5/6/24	870 d	
1085	Excavation Works	40 d	Sat 11/11/23	Thu 28/12/23	712 d	0 d
1086	Footing	80 d	Mon 11/12/23	Thu 21/3/24	712 d	1 d
1087	Underground Drainage	100 d	Fri 5/1/24	Sat 11/5/24	712 d	1 d
1088	Back Filling, Waterproofing and G/F Slab	90 d	Fri 9/2/24	Wed 5/6/24	712 d	**1 d**
1089	Completion of Foundation and Substructure Works of Section 1	0 d	Wed 5/6/24	Wed 5/6/24	712 d	0 d
1090	**Superstructure Construction**	**508 d**	**Wed 14/6/23**	**Sat 2/11/24**	**107 d**	
1091	**Section 1 Works**	402 d	Wed 14/6/23	Fri 19/7/24	107 d	
1092	PD&TTC Block 1 (Cast in-situ + recess opening method)	402 d	Wed 14/6/23	Fri 19/7/24	437 d	
1093	Embed of Curtain Wall Fabrication and Dilevery	90 d	Wed 14/6/23	Mon 11/9/23	437 d	1 d
1094	Subletting and Materials Ordering	90 d	Thu 13/7/23	Tue 10/10/23	408 d	1 d
1095	G/F	35 d	Tue 28/11/23	Mon 1/1/24	360 d	0 d
1096	1/F	30 d	Thu 28/12/23	Fri 26/1/24	360 d	0 d
1097	2/F	18 d	Mon 22/1/24	Thu 8/2/24	360 d	0 d
1098	3/F	18 d	Sun 4/2/24	Wed 21/2/24	360 d	**0 d**
1099	4/F	18 d	Mon 19/2/24	Thu 7/3/24	366 d	0 d
1100	R/F	18 d	Wed 6/3/24	Sat 23/3/24	366 d	**0 d**
1101	UR/F	14 d	Sun 24/3/24	Sat 6/4/24	366 d	0 d
1102	TR/F	14 d	Sun 7/4/24	Sat 20/4/24	366 d	0 d
1103	Opening of Tower Crane	17 d	Wed 3/7/24	Fri 19/7/24	371 d	0 d
1104	MiC Installation (Lifting through opening + Slide-in method)	310 d	Mon 21/8/23	Tue 25/6/24	372 d	
1105	Structural Materials Submission & Approval	60 d	Mon 21/8/23	Thu 19/10/23	372 d	1 d
1106	Fitting Out Materials Submission & Approval	60 d	Tue 24/10/23	Fri 22/12/23	1036 d	1 d
1107	Structural materials Ordering and Fabrication of MiC Carcass	65 d	Fri 20/10/23	Sat 23/12/23	372 d	1d
1108	MiC Fabrication / Installation and Dilevery on Site	110 d	Sun 24/12/23	Thu 11/4/24	372 d	1 d
1109	On-site Trial Installation	5 d	Fri 12/4/24	Tue 16/4/24	372 d	0 d
1110	MiC / MiMep / Precast Beam and Slab Installation	70 d	Wed 17/4/24	Tue 25/6/24	372 d	1 d
1111	PD&TTC Block 2-8 and Carpark	82 d	Thu 30/11/23	Mon 19/2/24	68 d	
1112	Block 2 Carpark	14 d	Thu 30/11/23	Fri 15/12/23	56 d	0 d
1113	Block 3 (2-wheeled driving ground) (5Nos.of MiC)	7 d	Sat 16/12/23	Sat 23/12/23	56 d	0 d
1114	Block 4 (Emergency Braking Training) (11Nos.of MiC)	10 d	Mon 25/12/23	Sat 6/1/24	56 d	0 d
1115	Block 5 (Skid Pad) (14 Nos.of MiC)	14 d	Mon 8/1/24	Tue 23/1/24	56 d	**0 d**
1116	Block 6 (4-wheeled driving ground) (5Nos.of MiC)	7 d	Wed 24/1/24	Wed 31/1/24	56 d	0 d
1117	Block 7 (2-wheeled & 4-wheeled driving ground) (10Nos.of MiC)	10 d	Thu 1/2/24	Mon 19/2/24	56 d	**0 d**
1118	Fuel filling Station	87 d	Mon 16/10/23	Wed 10/1/24	463 d	
1119	Underground fuel tank	45 d	Mon 16/10/23	Wed 6/12/23	377 d	0 d
1120	Backfilling and G/F slab	14 d	Thu 7/12/23	Fri 22/12/23	377 d	0 d
1121	Fuel station superstructure	14 d	Sat 23/12/23	Wed 10/1/24	377 d	0 d
1122	WTF Block 1-4	161 d	Fri 6/10/23	Thu 14/3/24	-7 d	
1123	Block 1 (Admin Block)	68 d	Fri 6/10/23	Tue 12/12/23	-7 d	
1124	1/F	21 d	Fri 6/10/23	Tue 31/10/23	-5 d	0 d
1125	2/F	16 d	Mon 30/10/23	Thu 16/11/23	-5 d	0 d
1126	R/F	12 d	Wed 15/11/23	Tue 28/11/23	-5 d	0 d
1127	TR/F	14 d	Mon 27/11/23	Tue 12/12/23	-5 d	**0 d**
1128	Block 2 (Arcade and Residential Mock Bldg.)	68 d	Fri 6/10/23	Tue 12/12/23	2 d	
1129	1/F	21 d	Fri 6/10/23	Tue 31/10/23	2 d	0 d
1130	2/F	16 d	Mon 30/10/23	Thu 16/11/23	2 d	0 d
1131	R/F	12 d	Wed 15/11/23	Tue 28/11/23	2 d	0 d
1132	TR/F	14 d	Mon 27/11/23	Tue 12/12/23	2 d	0 d
1133	Block 3 (MOE Bldg.)	95 d	Mon 11/12/23	Thu 14/3/24	-6 d	
1134	1/F	26 d	Mon 11/12/23	Thu 11/1/24	-5 d	0 d
1135	2/F	18 d	Wed 10/1/24	Tue 30/1/24	-5 d	**0 d**
1136	R/F	18 d	Mon 29/1/24	Sat 24/2/24	-5 d	0 d
1137	TR/F	18 d	Fri 23/2/24	Thu 14/3/24	-5 d	**0 d**
1138	Block 4 (Marine Mock Bldg.)	95 d	Mon 11/12/23	Thu 14/3/24	2 d	
1139	1/F	26 d	Mon 11/12/23	Thu 11/1/24	2 d	0 d
1140	2/F	18 d	Wed 10/1/24	Tue 30/1/24	2 d	0 d



中國建築聯營
CHINA STATE JOINT VENTURE

Task		Summary		Manual Task		Manual Summary		External Tasks	
Critical Task		Inactive Milestone		Duration-only		Start-only		External Milestone	
Milestone		Inactive Summary		Manual Summary Rollup		Finish-only			

Layout Plan with major construction activities

Legend:

Foundation construction and associated works

PLATFORM A

PLATFORM B

PLATFORM C

PLATFORM D

PLATFORM E

PLATFORM F

PLATFORM G

PLATFORM H

PLATFORM I

PLATFORM J

PLATFORM K

PLATFORM L

- Ground Investigation
- Piling

- Preparation for excavation

Major construction activities carried out in June 2023

N

KONG NGA PO ROAD

26-Oct-22

...\DF\DF0080\Main site layout.dgn

Legend:

Setting-up of site office

Foundation construction and associated works

Construction of footings

N

PLATFORM I

- Open cut excavation
- Soil removal

PLATFORM H

PLATFORM J

- Open cut excavation
- Soil removal
- U.U. Lead in and Pipe Duct Connection

- Soil Storage

PLATFORM G

- Open cut excavation
- Soil removal
- U.U. Lead in and Pipe Duct Connection

PLATFORM K

- Open cut excavation
- Soil removal/ Soil Storage

- Open cut excavation
- Soil removal
- U.U. Lead in and Pipe Duct Connection

PLATFORM F

PLATFORM L

PLATFORM D

PLATFORM E

- Open cut excavation
- Soil removal
- Construction of footings

- Open cut excavation
- Soil removal
- Construction of footings

PLATFORM B

PLATFORM C

- Soil removal
- Pre-bored socketed-H Piling
- Construction of footings

- Setting-up of site office

KONG NGA PO ROAD

PLATFORM A

- Open cut excavation
- Soil removal
- Construction of footings
- U.U. Lead in and Pipe Duct Connection

Major construction activities carried out in period of Jul~Sep 2023

26-Oct-22

...\DF\DF0080\Main site layout.dgn

Proactive Environmental Protection Proforma

Design and Construction of Kong Nga Po Police Training Facilities Working Period: Jul to Sep 2023

Proactive Environmental Protection Proforma

Ref*	**Proposed Construction Method**	**Location/Working Period**	**Anticipated Major Impacts**	**Recommended Mitigation Measures**
EIA 3.9.1; EM&A Log 2.2	Open cut excavation	Kong Nga Po Site	Dust impact from excavation activities and earth moving	• Use of regular water spraying (once every 1.25 hours or 8 times per day) at all active works area exposed site surfaces and unpaved roads, particularly during dry weather • 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; EM&A Log 3.2			Noise Control	• Regular inspection and maintenance of plant & equipment in good condition

				• Enclose the noisy part of machineries with noise enclosure • Adopt of Quality Powered Mechanical Equipment (QPME) if possible
			Working in Restricted Hours	• Valid construction noise permit should be obtained and 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; EM&A Log 4.2			Water Pollution Control	• Cover the stockpiles of construction materials to reduce the potential for water pollution • Provide wastewater treatment facilities prior to discharge of wastewater • 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; EM&A Log 6.2				chemical handling procedures • 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; EM&A Log 6.2			Chemical Waste	• Chemical waste should be stored at chemical waste container 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 EM&A Log 8.3			Ecology Concern	• Provide training to frontline workers for the conservative 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	• Preservation of existing trees will be undertaken in 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; EM&A Log 2.2	Soil Removal	Kong Nga Po Site	Dust impact from excavation activities and earth	• Use of regular water spraying (once every 1.25 hours or 8 times per day) at all active works area exposed site surfaces and unpaved roads, particularly during dry weather

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

				• Provide wastewater treatment facilities prior to discharge of wastewater • Regular inspection and maintenance of wastewater treatment facilities • 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 & 7.5.1.2; EM&A Log 6.2			Waste Generation	• Training of site personnel in proper waste management and chemical handling procedures • 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; EM&A Log 6.2			Chemical Waste	• Chemical waste should be stored at chemical waste container 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 EM&A Log 8.3			Ecology Concern	• Provide training to frontline workers for the conservative 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	• Preservation of existing trees will be undertaken in 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; EM&A Log 2.2	Construction of footings	Kong Nga Po Site	Air	• Regular inspection and maintenance of plant and equipment in good condition • Regularly clean up stockpiles and debris to avoid accumulation of materials • Dusty materials exceeding 20 bags shall be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting.
EIA 4.4.6; EM&A Log 3.2			Noise Control	• Regular inspection and maintenance of plant & equipment in good condition • Enclose the noisy part of machineries with noise enclosure • Adopt of Quality Powered Mechanical Equipment (QPME) if possible
			Working in Restricted Hours	• Valid construction noise permit should be obtained and 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; EM&A Log 4.2			Water Pollution Control	• 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. • Designated location for residual concrete washout • Provide wastewater treatment facilities prior to discharge of wastewater
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	• Provide training to frontline workers for the conservative 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	• Preservation of existing trees will be undertaken in accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement • Implement temporary traffic arrangement which control construction area to minimize landscape and visual impacts
EIA 3.9.1; EM&A Log 2.2	Pre-bored Socketed-H Piling	Kong Nga Po Site	Air	• Regular inspection and maintenance of plant and equipment in good condition • Regularly clean up stockpiles and debris to avoid

				accumulation of materials • Dusty materials exceeding 20 bags shall be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting.
EIA 4.4.6; EM&A Log 3.2			Noise Control	• Regular inspection and maintenance of plant & equipment in good condition • Enclose the noisy part of machineries with noise enclosure • Adopt of Quality Powered Mechanical Equipment (QPME) if possible
			Working in Restricted Hours	• Valid construction noise permit should be obtained and 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; EM&A Log 4.2			Water Pollution Control	• Cover the stockpiles of construction materials to reduce the potential for water pollution • Provide wastewater treatment facilities prior to discharge of wastewater • Wastewater generated from piling or surface runoff shall be treated prior to discharge
EIA 7.5.1.1; EM&A Log 6.2			Waste Management	• Cover stockpiles of C&D materials by impervious sheets to avoid wind-blown dust. • Spray water on all dusty materials including C&D materials

				immediately prior to any loading transfer operation
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	• Provide training to frontline workers for the conservative 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	• Preservation of existing trees will be undertaken in accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement • Implement temporary traffic arrangement which control construction area to minimize landscape and visual impacts

**EIA Ref/ EM&A Log/ Design Document Ref*

***Details of equipment, vehicles, plants, processes, technologies for the construction method*

Design and Construction of Kong Nga Po Police Training Facilities Working Period: Jun 2023

Proactive Environmental Protection Proforma

Ref*	**Proposed Construction Method**	**Location/Working Period**	**Anticipated Major Impacts**	**Recommended Mitigation Measures**	**Photo Records (Partial)**
EIA 3.9.1; EM&A Log 2.2	Ground Investigation	Kong Nga Po Site	Dust impact	• Deploy water bowser for regular water spraying to enhance dust suppression • Manual water spraying for dust suppression • Regular inspection and maintenance of plant and equipment in good condition • Cover dusty materials with impervious sheets	 By main contractor at KNP site

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

EIA 4.4.6; EM&A Log 3.2			Noise	• Regular inspection and maintenance of plant & equipment in good condition • Deploy Quality Powered Mechanical Equipment (QPME) if possible • Valid construction noise permit should be displayed at site entrance.	 By main contractor at KNP site  By main contractor at KNP site

EIA 9.7.1 and EM&A Log 8.3			Ecology Concern	• Provide training to workers about the conservative species • Provision of protective fence for the conservative species • Regular inspection for concerned vegetation and conservative species	 By main contractor at KNP site  By sub-contractor at KNP site

EIA 3.9.1; EM&A Log 2.2	Pre-bored Socketed-H Piling	Kong Nga Po Site	Air	• Cover dusty materials with impervious sheets • Cover exposed slopes with impervious sheets •	 By main contractor at KNP site  By main contractor at KNP site

					 By main contractor at KNP site
EIA 4.4.6; EM&A Log 3.2			Noise	• Regular inspection and maintenance of plant & equipment in good condition • Deploy Quality Powered Mechanical Equipment (QPME) if possible • Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor or generator.	 By sub contractor at KNP site

					 By main contractor at KNP site
EIA 5.6.1.2 and EM&A Log 4.2			Water Quality	• Cover exposed slopes with impervious sheets. • Wastewater pumped out of the excavation areas shall be treated to remove suspended solid prior to discharge. • Provide desilting/ sedimentation devices for wastewater treatment prior to discharge	 By main contractor at KNP site

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

EIA 5.6.1.3 and EM&A Log 4.2			Water Quality	• Provide drip tray to prevent spillage of fuels.	 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	

TableB-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

東業德勤測試顧問有限公司
ETS-TESTCONSULT LTD.™

8/F Block B,
Veristrong Industrial Centre,
34-36 Au Pui Wan Street,
Fo Tan, Hong Kong

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F: +852 2695 3944
E: etl@ets-testconsult.com
W: www.ets-testconsult.com

Calibration Certificate

Certificate No. : **CSA27669**

Page : 1 of 2

Information Provided by Customer

Customer : ETS - Testconsult Limited

Address : 8/F., Block B, Veristrong Industrial Centre, 34 - 36 Au Pui Wan Street, Fotan, Shatin, Hong Kong

Information of Unit-under-test (UUT)

Description	: Sound Level Calibrator		
Manufacturer	: RION	Equipment I.D.	: ET/EN/002/01
Type	: NC-73	Serial No.	: 10196943

Laboratory Information

Lab. Ref. No.	: Q/CAL/22/9442/I	Procedure	: CQS/002/A
Date of Calibration	: 7-Nov-2022	Date of Receipt	: 1-Nov-2022
Date of Issue	: 10-Nov-2022	Calibration Location	: Calibration Laboratory

Calibration Condition

Ambient Temperature	: (20±3) °C	Relative Humidity	: (50±20) %
Stabilizing Time	: 30 minutes	Sampling	: As received
Ambient Pressure	: (1000±5) hPa		

Reference equipment

- Multi-function sound calibrator, ET/2801/01
- Measuring Amplifier ET/2702/01/01
- Signal generator, ET/2503/01
- Reference Oscilloscope, ET/2502/01

Calibration specification

- To perform the calibration of sound level calibrator.

Calibration result

- The results are detailed on the subsequent pages.

Remarks

- The calibration results apply to the particular unit-under-test only.
- The values given in this calibration certificate only to the values measureed at the time of test & any uncertainties quoted will not include allowance for the equipment long term drift, varifications with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement

Calibrated By : Tommy TAM & Tony MA (Technician)

Approved By: CHAN Chi Wai

東業德勤測試顧問有限公司
ETS-TESTCONSULT LTD.™

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Calibration Certificate

Certificate No. : CSA27669

Calibration Result:

1. Measured Sound Pressure Level:

Nominal Frequency (Hz)	Nominal Output Sound Pressure (dB)	Measured Output (dB)	Expanded Uncertainty (dB)	Coverage Factor
1000	94.0	94.0	0.13	2.0

2. Actual Output Frequency:

Nominal Frequency (Hz)	Nominal Output Sound Pressure (dB)	Measured Output (Hz)	Expanded Uncertainty (Hz)	Coverage Factor
1000	94.0	981.905	0.13	2.0

Remark:

- The uncertainty quoted is based on 95 % confidence level.
- Measured output are mean of three measurements.

End of certificate

東業德勤測試顧問有限公司
ETS-TESTCONSULT LTD.™

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Calibration Certificate

Certificate No. : **CSA23783**

Page : 1 of 3

Information Provided by Customer

Customer : ETS - TESTCONSULT LIMITED

Address : 8/F., Block B, Veristrong Industrial Centre, 34 - 36 Au Pui Wan Street, Fotan, Shatin, Hong Kong

Information of Unit-under-test (UUT)

	Sound Level Meter	Microphone	Pre-amplifier
Manufacturer	RION	RION	RION
Type	NL-52	UC-59	NH-25
Equipment I.D. no.	ET/EN/003/17	-	-
Serial No.	00264619	03558	64644
Adaptors used	-	-	-
Resolution	0.1 dB	-	-

Laboratory Information

Lab. Ref. No. : Q/CAL/22/4437/I

Date of Calibration : 22-Jun-2022

Date of Issue : 23-Jun-2022

Procedure : CQS/001/A

Date of Receipt : 8-Jun-2022

Calibration Location : Calibration Laboratory

Calibration Condition

Ambient Temperature : (20±3) °C

Stabilizing Time : 30 minutes

Relative Humidity : (50±20) %

Reference equipment

- Multi-function sound calibrator, ET/2801/01
- Signal generator, ET/2503/01

Calibration specification

- To perform the calibration of linearity and frequency response by multi-function sound calibrator.

Calibration result

- The results are detailed on the subsequent pages.

Remarks

- The calibration results apply to the particular unit-under-test only.
- The values given in this calibration certificate only to the values measureed at the time of test & any uncertainties quoted will not include allowance for the equipment long term drift, verifications with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement.

Calibrated By : Tommy TAM (Technician)

Approved By: CHAN Chi Wai

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Form QAS/C/01 Issue 1(2/) (09/21)

Calibration Certificate

Certificate No. : CSA23783

Calibration Result:

1 Reference Sound Pressure Level : (Unit:in: dB)

Range / Mode			Reference Level	REF Frequency (kHz)	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor
A-Weighting	Self-cal	-	94.0	1	94.0	0.0	0.13	2.0
	Range	30-130	104.0		104.1	0.1	0.13	2.0
	Mode	Fast	114.0		114.1	0.1	0.13	2.0
	Self-cal	-	94.0	1	94.0	0.0	0.13	2.0
	Range	30-130	104.0		104.1	0.1	0.13	2.0
	Mode	Slow	114.0		114.1	0.1	0.13	2.0
C-Weighting	Self-cal	-	94.0	1	94.0	0.0	0.13	2.0
	Range	30-130	104.0		104.1	0.1	0.13	2.0
	Mode	Fast	114.0		114.0	0.0	0.13	2.0
	Self-cal	-	94.0	1	94.0	0.0	0.13	2.0
	Range	30-130	104.0		104.1	0.1	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0
Z-Weighting	Self-cal	-	94.0	1	94.0	0.0	0.13	2.0
	Range	30-130	104.0		104.1	0.1	0.13	2.0
	Mode	Fast	114.0		114.0	0.0	0.13	2.0
	Self-cal	-	94.0	1	94.0	0.0	0.13	2.0
	Range	30-130	104.0		104.1	0.1	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0

Remark:

- The uncertainty quoted is based on 95 % confidence level.
- UUT reading are mean of three measurements.
- Deviation = UUT Reading - Reference Level

***

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Calibration Certificate

Certificate No. : CSA23783

Calibration Result:

Acoustic Sensitivity and Frequency Response:

3 Frequency Response A-Weighting (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor
30-130	Fast	94	31.5	54.6	45.6	-9.0	0.15	2.0
			63	67.8	62.3	-5.5	0.13	2.0
			125	77.9	76.5	-1.4	0.13	2.0
			250	85.4	86.4	1.0	0.12	2.0
			500	90.8	92.1	1.3	0.12	2.0
			1000 (Ref.)	94.0	94.0	0.0	0.13	2.0
			2000	95.1	93.4	-1.7	0.13	2.0
			4000	94.9	91.3	-3.6	0.13	2.0
			8000	92.9	84.6	-8.3	0.14	2.0
			12500	89.7	78.0	-11.7	0.14	2.0
			16000	87.5	72.4	-15.1	0.14	2.0

4 Frequency Response C-Weighting (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor
30-130	Fast	94	31.5	91.0	80.2	-10.8	0.22	2.3
			63	93.2	87.6	-5.6	0.13	2.0
			125	93.8	92.4	-1.4	0.13	2.0
			250	94.0	95.0	1.0	0.12	2.0
			500	94.0	95.3	1.3	0.12	2.0
			1000 (Ref.)	94.0	94.0	0.0	0.13	2.0
			2000	93.7	92.0	-1.7	0.13	2.0
			4000	93.1	89.6	-3.5	0.13	2.0
			8000	91.0	82.7	-8.3	0.14	2.0
			12500	87.8	76.2	-11.6	0.14	2.0
			16000	85.6	70.6	-15.0	0.14	2.0

5 Frequency Response Z-Weighting (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor
30-130	Fast	94	31.5	94.0	83.2	-10.8	0.14	2.0
			63	94.0	88.5	-5.5	0.29	2.6
			125	94.0	92.0	-1.4	0.15	2.0
			250	94.0	95.0	1.0	0.12	2.0
			500	94.0	95.3	1.3	0.12	2.0
			1000 (Ref.)	94.0	94.0	0.0	0.13	2.0
			2000	94.0	92.2	-1.8	0.13	2.0
			4000	94.0	90.3	-3.7	0.13	2.0
			8000	94.0	85.6	-8.4	0.14	2.0
			12500	94.0	82.7	-11.3	0.14	2.0
			16000	94.0	80.2	-13.8	0.14	2.0

Remark:

- Signal level at 1000 Hz is set as indication of reference sound pressure level.
- The uncertainty quoted is based on 95 % confidence level with coverage factor k=2.0.
- UUT reading are mean of three measurements.
- Deviation = UUT Reading - Reference Level

End of certificate

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Calibration Certificate

Certificate No. : **CSA27977**

Information Provided by Customer

Customer : ETS - Testconsult Limited

Address : 8/F., Block B, Veristrong Industrial Centre, 34 - 36 Au Pui Wan Street, Fotan, Shatin, Hong Kong

Information of Unit-under-test (UUT)

	Sound Level Meter	Microphone	Pre-amplifier
Manufacturer	RION	RION	-
Type	NL-52	UC-59	NH-25
Equipment I.D. no.	ET/EN/003/16	-	-
Serial No.	00253765	07824	43795
Adaptors used	-	-	-
Resolution	0.1 dB	-	-

Laboratory Information

Lab. Ref. No. : Q/CAL/22/9824/I

Date of Calibration : 22-Nov-2022

Date of Issue : 23-Nov-2022

Procedure : CQS/001/A

Date of Receipt : 16-Nov-2022

Calibration Location : Calibration Laboratory

Calibration Condition

Ambient Temperature : (20±3) °C

Stabilizing Time : 30 minutes

Ambient Pressure : (1000±5) hPa

Relative Humidity : (50±20) %

Sampling : As received

Reference equipment

- Multi-function sound calibrator, ET/2801/01
- Signal generator, ET/2503/01

Calibration specification

- To perform the calibration of linearity and frequecny response by multi-function sound calibrator.

Calibration result

- The results are detailed on the subsequent pages.

Remarks

- The calibration results apply to the particular unit-under-test only.
- The values given in this calibration certificate only to the values measureed at the time of test & any uncertainties quoted will not include allowance for the equipment long term drift, varifications with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement

Calibrated By : Tommy TAM (Technician)

Approved By: CHAN Chi Wai

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Calibration Certificate

Certificate No. : CSA27977

Calibration Result:

1 Reference Sound Pressure Level : (Unit in: dB)

Range / Mode			Reference Level	REF Frequency (kHz)	UUT Reading	Deviation	Expanded Uncertatiny	Coverage Factor
A-Weighting	Self-cal	Before	94.0	1	94.3	0.3	0.13	2.0
	Range	30 to 130	104.0		104.3	0.3	0.13	2.0
	Mode	Fast	114.0		114.3	0.3	0.13	2.0
	Self-cal	After	94.0	1	94.0	0.0	0.13	2.0
	Range	30 to 130	104.0		104.0	0.0	0.13	2.0
	Mode	Fast	114.0		114.0	0.0	0.13	2.0
	Self-cal	After	94.0	1	94.0	0.0	0.13	2.0
	Range	30 to 130	104.0		104.0	0.0	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0
C-Weighting	Self-cal	After	94.0	1	94.0	0.0	0.13	2.0
	Range	30 to 130	104.0		104.0	0.0	0.13	2.0
	Mode	Fast	114.0		114.0	0.0	0.13	2.0
	Self-cal	After	94.0	1	94.0	0.0	0.13	2.0
	Range	30 to 130	104.0		104.0	0.0	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0
Z-Weighting	Self-cal	After	94.0	1	94.0	0.0	0.13	2.0
	Range	30 to 130	104.0		104.0	0.0	0.13	2.0
	Mode	Fast	114.0		114.0	0.0	0.13	2.0
	Self-cal	After	94.0	1	94.0	0.0	0.13	2.0
	Range	30 to 130	104.0		104.0	0.0	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0

Remark:

- The uncertainty quoted is based on 95 % confidence level.
- UUT reading are mean of three measurements.
- Deviation = UUT Reading - Reference Level
- Laboratory reference multi-function sound calibrator was used to adjust the "Self cal" reading of UUT.

***

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Calibration Certificate

Certificate No. : CSA27977

Calibration Result:

Acoustic Sensitivity and Frequency Response:

2 Frequency Response A-Weighting (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	IEC 61672-1:2002 class 1 Specification
30 to 130	Fast	94	31.5	54.6	54.7	0.1	-39.4 +/- 2.0
			63	67.8	68.0	0.2	-26.2 +/- 1.5
			125	77.9	78.1	0.2	-16.1 +/- 1.5
			250	85.4	85.5	0.1	-8.6 +/- 1.4
			500	90.8	90.9	0.1	-3.2 +/- 1.4
			1000 (Ref.)	94.0	94.0	0.0	0 +/- 1.1
			2000	95.1	95.0	-0.1	+1.2 +/- 1.6
			4000	94.9	94.1	-0.8	+1.0 +/- 1.6
			8000	92.9	89.8	-3.1	-1.1 (+2.1 ; - 3.1)
			12500	89.7	83.7	-6.0	-4.3 (+3.0 ; -6.0)
			16000	87.5	76.9	-10.6	-6.6 (+3.5 ; -17.0)

3 Frequency Response C-Weighting : (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	IEC 61672-1:2002 class 1 Specification
30 to 130	Fast	94	31.5	91.0	91.1	0.1	-3.0 +/- 2.0
			63	93.2	93.4	0.2	-0.8 +/- 1.5
			125	93.8	94.0	0.2	-0.2 +/- 1.5
			250	94.0	94.1	0.1	0.0 +/- 1.4
			500	94.0	94.1	0.1	0.0 +/- 1.4
			1000 (Ref.)	94.0	94.0	0.0	0 +/- 1.1
			2000	93.7	93.6	-0.1	-0.2 +/- 1.6
			4000	93.1	92.3	-0.8	-0.8 +/- 1.6
			8000	91.0	87.9	-3.1	-3.0 (+2.1 ; -3.1)
			12500	87.8	81.8	-6.0	-6.2 (+3.0 ; -6.0)
			16000	85.6	75.0	-10.6	-8.5 (+3.5 ; -17.0)

4 Frequency Response Z-Weighting : (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	IEC 61672-1:2002 class 1 Specification
30 to 130	Fast	94	31.5	94.0	94.0	0.0	0.0 +/- 2.0
			63	94.0	94.1	0.1	0.0 +/- 1.5
			125	94.0	94.2	0.2	0.0 +/- 1.5
			250	94.0	94.1	0.1	0.0 +/- 1.4
			500	94.0	94.1	0.1	0.0 +/- 1.4
			1000 (Ref.)	94.0	94.0	0.0	0 +/- 1.1
			2000	94.0	93.8	-0.2	0.0 +/- 1.6
			4000	94.0	93.1	-0.8	0.0 +/- 1.6
			8000	94.0	90.9	-3.1	0.0 (+2.1 ; -3.1)
			12500	94.0	88.2	-5.8	0.0 (+3.0 ; -6.0)
			16000	94.0	84.6	-9.4	0.0 (+3.5 ; -17.0)

- Expended uncertainty of measurement:

	Range (Hz)	(dB)	Range (Hz)	(dB)
94 dB	31.5	0.20	2000	0.13
	63	0.15	4000	0.13
	125	0.15	8000	0.14
	250	0.12	12500	0.16
	500	0.12	16000	0.16
	1000	0.13		

Remark:
- Manufacturer specification: IEC 61672 class 1
- Signal level at 1000 Hz is set as indication of reference sound pressure level.
- The uncertainty quoted is based on 95 % confidence level with coverage factor k=2.0.
- UUT reading are mean of three measurements.
- Deviation = UUT Reading - Reference Level

End of certificate

TISCH Environmental

RECALIBRATION DUE DATE:
January 17, 2024

Certificate of Calibration

Callbration Certification Information				
Cal. Date:	January 17, 2023	**Rootsmeter S/N:** 438320	**Ta:** 294	°K
Operator:	Jim Tisch		**Pa:** 741.4	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **4128**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4370	3.2	2.00
2	3	4	1	1.0170	6.4	4.00
3	5	6	1	0.9140	8.0	5.00
4	7	8	1	0.8640	8.8	5.50
5	9	10	1	0.7170	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
0.9846	0.6852	1.4063	0.9957	0.6929	0.8905
0.9803	0.9639	1.9888	0.9914	0.9748	1.2594
0.9782	1.0702	2.2235	0.9892	1.0823	1.4081
0.9771	1.1309	2.3321	0.9881	1.1437	1.4768
0.9718	1.3553	2.8126	0.9827	1.3706	1.7811
QSTD	**m=**	**2.09676**	**QA**	**m=**	**1.31296**
	b=	**-0.03027**		**b=**	**-0.01917**
	r=	**0.99991**		**r=**	**0.99991**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	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= $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg

Key
ΔH: calibrator manometer reading (in H2O)
ΔP: rootsmeter manometer reading (mm Hg)
Ta: actual absolute temperature (°K)
Pa: actual barometric 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

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TEST REPORT

Calibration Report of High Volume Air Sampler

Manufacturer : Graseby GMW

Date of Calibration : 26 April 2023

Serial No. : 1180 (ET / EA / 003 / 04)

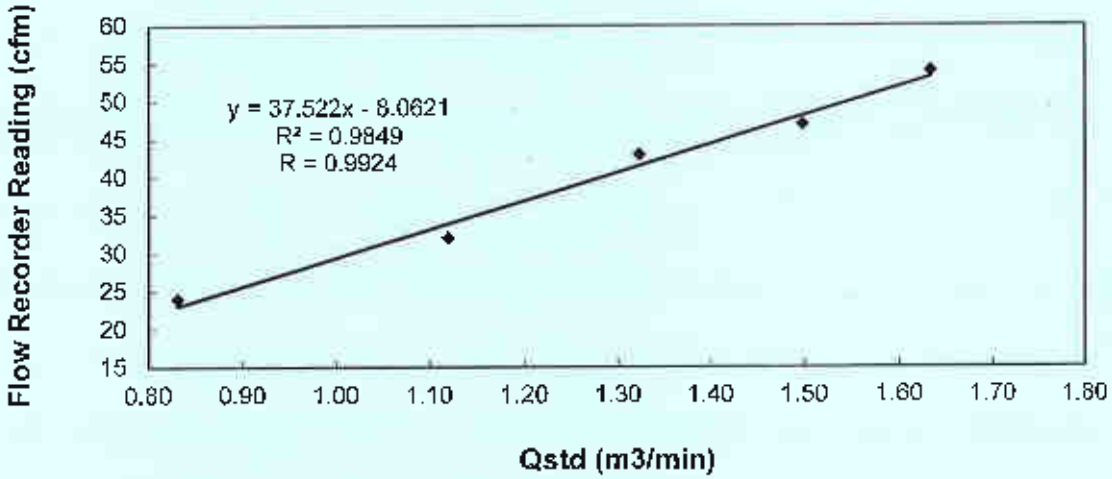
Calibration Due Date : 25 June 2023

Method : Based on Operations Manual for the 5-point calibration using standard calibration kit manufactured by Tisch TE-5025 A

Results :

Flow recorder reading (cfm)	54	47	43	32	24
Qstd (Actual flow rate, m^3/min)	1.63	1.50	1.32	1.12	0.83
Pressure : 761.01 mm Hg		Temp. : 295 K			

Sampler 1180 Calibration Curve
Site: Tuen Mun (TM-RA2)



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies* / ~~does not comply~~* with the specified requirements and is deemed acceptable* / unacceptable * for use.

Calibrated by : Mak Kei Wai
MAK, Kei Wai
(Assistant Supervisor)

Checked by :
LAU, Chi Loung
(Environmental Team Leader)

- END OF REPORT -

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TEST REPORT

Internal Calibration Report of Dust Monitor

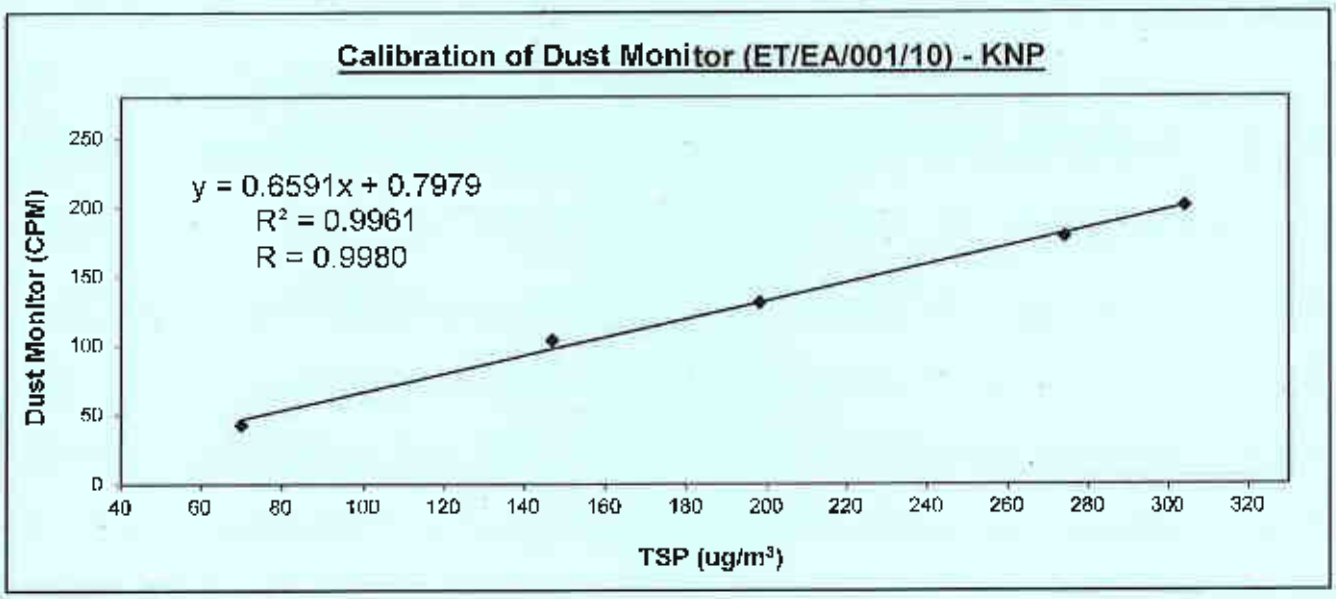
Manufacturer : SIBATA (LD-3B) Date of Calibration : 06 April 2023

Serial No. : 1Z5635 (ET/EA/001/10) Calibration Due Date : 05 June 2023

Method : Parallel measurement (Five-point calibration) by placing the Dust Monitor and High Volume Air Samper together under the same environmental condition

Results :

Dust Monitor (CPM)	43	104	131	179	201
TSP (ug/m^3)	70	147	198	274	304
High Volume Air Sampler Serail No.: 1180	Calibration Due Date: 27 April 2023				



Acceptance Criteria : Correlation coefficient (R) of the calibration curve greater than 0.990 after a five-point calibration

The Dust Trak Monitor complies * / ~~does not comply~~ * with the internal calibration procedures and is deemed acceptable */ unacceptable * for use.

Calibrated by : CHENG, Hei Man (Technician)

Checked by : LAU, Chi Leung (Environmental Team Leader)

- END OF REPORT -

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TEST REPORT

Internal Calibration Report of Dust Monitor

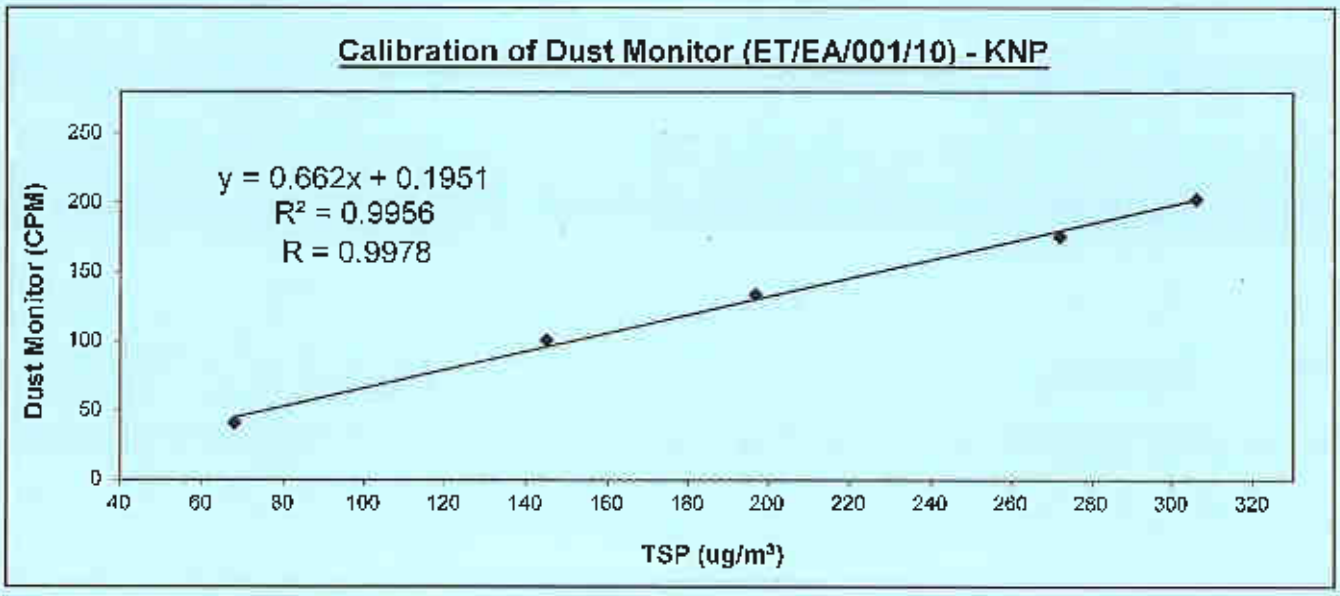
Manufacturer : SIBATA (LD-3B) Date of Calibration : 05 June 2023

Serial No. : 1Z5635 (ET/EA/001/10) Calibration Due Date : 04 August 2023

Method : Parallel measurement (Five-point calibration) by placing the Dust Monitor and High Volume Air Samper together under the same environmental condition

Results :

Dust Monitor (CPM)	41	101	134	176	203
TSP (ug/m^3)	68	145	197	272	306
High Volume Air Sampler Serail No.: 1180	Calibration Due Date: 25 June 2023				



Acceptance Criteria : Correlation coefficient (R) of the calibration curve greater than 0.990 after a five-point calibration

The Dust Trak Monitor complies * / does not comply * with the internal calibration procedures and is deemed acceptable */ unacceptable * for use.

Calibrated by : _____
CHENG, Hei Man
(Technician)

Checked by : _____
LAU, Chi Leung
(Environmental Team Leader)

- END OF REPORT -

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TEST REPORT

Internal Calibration Report of Dust Monitor

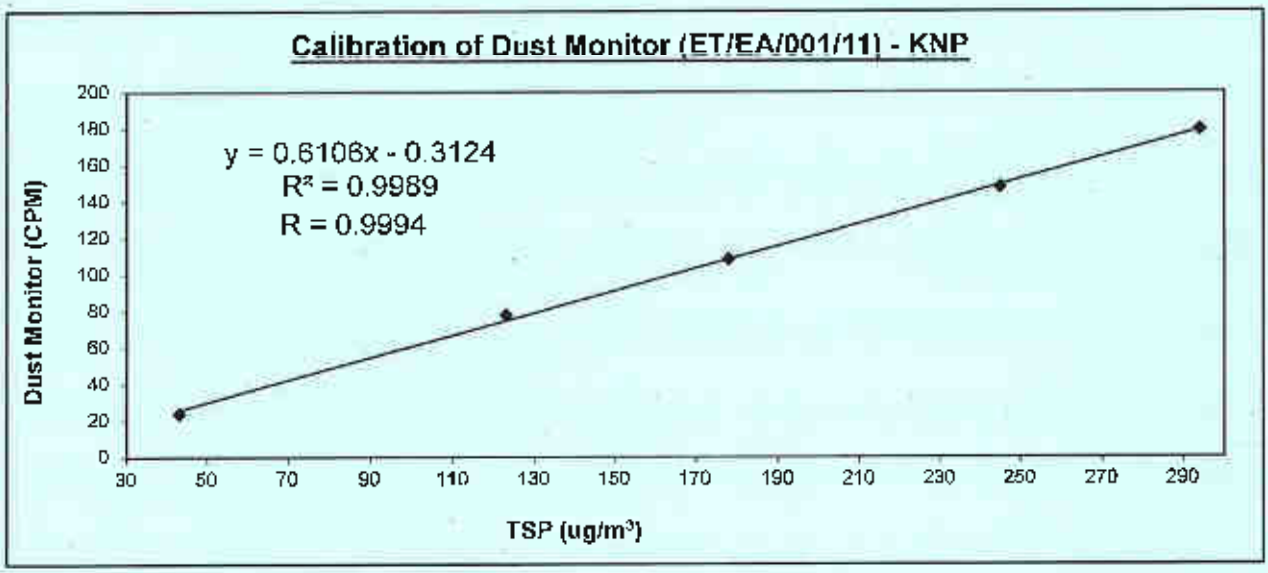
Manufacturer : SIBATA (LD-3B) Date of Calibration : 06 April 2023

Serial No. : 255863 (ET/EA/001/11) Calibration Due Date : 05 June 2023

Method : Parallel measurement (Five-point calibration) by placing the Dust Monitor and High Volume Air Samper together under the same environmental condition

Results :

Dust Monitor (CPM)	24	78	108	148	179
TSP (ug/m^3)	43	123	178	245	294
High Volume Air Sampler Serail No.:1180	Calibration Due Date: 27 April 2023				



Acceptance Criteria : Correlation coefficient (R) of the calibration curve greater than 0.990 after a five-point calibration

The Dust Trak Monitor complies */ ~~does not comply~~ * with the internal calibration procedures and is deemed acceptable */ ~~unacceptable~~ * for use.

Calibrated by : CHENG, Hei Man (Technician)

Checked by : LAU, Chi Leung (Environmental Team Leader)

- END OF REPORT -

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TEST REPORT

Internal Calibration Report of Dust Monitor

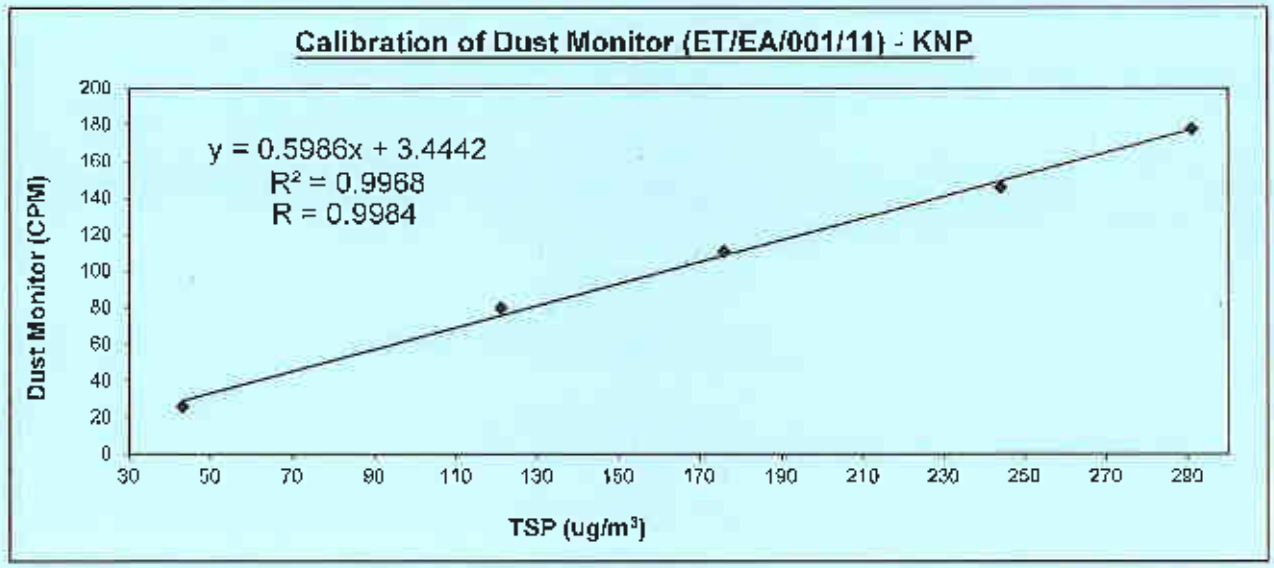
Manufacturer : SIBATA (LD-3B) Date of Calibration : 05 June 2023

Serial No. : 255863 (ET/EA/001/11) Calibration Due Date : 04 August 2023

Method : Parallel measurement (Five-point calibration) by placing the Dust Monitor and High Volume Air Samper together under the same environmental condition

Results :

Dust Monitor (CPM)	26	80	111	146	178
TSP (ug/m^3)	43	121	176	244	291
High Volume Air Sampler Serail No.:1180	Calibration Due Date: 25 June 2023				



Acceptance Criteria : Correlation coefficient (R) of the calibration curve greater than 0.990 after a five-point calibration

The Dust Trak Monitor complies * / ~~does not comply~~ * with the internal calibration procedures and is deemed acceptable */ unacceptable * for use.

Calibrated by : _____
CHENG, Hei Man
(Technician)

Checked by : _____
LAU, Chi Loung
(Environmental Team Leader)

- END OF REPORT -

APPENDIX D
ENVIRONMENTAL MONITORING SCHEDULES

Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Impact Air Quality and Noise Monitoring Schedule
June-2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-May	29-May	30-May	31-May	1-Jun	2-Jun	3-Jun
	1-hr TSP x3 (AM1, AM2) **NM** (NM9 to NM14)				**1-hr TSP x3** (AM1, AM2)	
4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun
		Site visit		**1-hr TSP x3** (AM1, AM2) **NM** (NM9 to NM14)		
11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun
			1-hr TSP x3 (AM1, AM2) **NM** (NM9 to NM14) Site visit			
18-Jun	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun
		1-hr TSP x3 (AM1, AM2) **NM** (NM9 to NM14) Site visit				
25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun	1-Jul
	1-hr TSP x3 (AM1, AM2) **NM** (NM9 to NM14)	Site visit			**1-hr TSP x3** (AM1, AM2) Ecological Monitoring	

Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Impact Air Quality and Noise Monitoring Schedule
July-2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun	1-Jul
	1-hr TSP x3 (AM1, AM2) **NM** (NM9 to NM14)				**1-hr TSP x3** (AM1, AM2)	
2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul
		Site visit		**1-hr TSP x3** (AM1, AM2) **NM** (NM9 to NM14)		
9-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul
		Site visit	**1-hr TSP x3** (AM1, AM2) **NM** (NM9 to NM14)			
16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul
		1-hr TSP x3 (AM1, AM2) **NM** (NM9 to NM14)	Site visit			
23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul
	1-hr TSP x3 (AM1, AM2) **NM** (NM9 to NM14)	Site visit			**1-hr TSP x3** (AM1, AM2)	
30-Jul	31-Jul	1-Aug	2-Aug	3-Aug	4-Aug	5-Aug
				1-hr TSP x3 (AM1, AM2) **NM** (NM9 to NM14)		

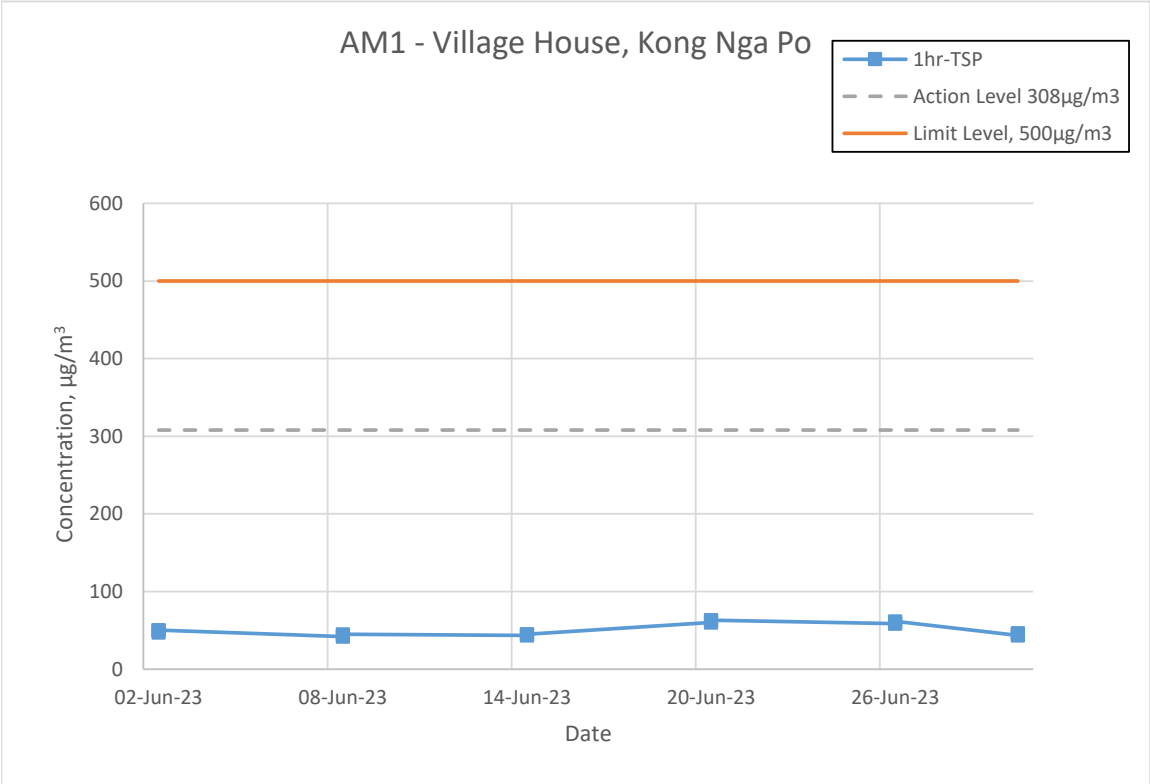
APPENDIX E
AIR QUALITY MONITORING RESULTS AND GRAPHICAL PRESENTATION

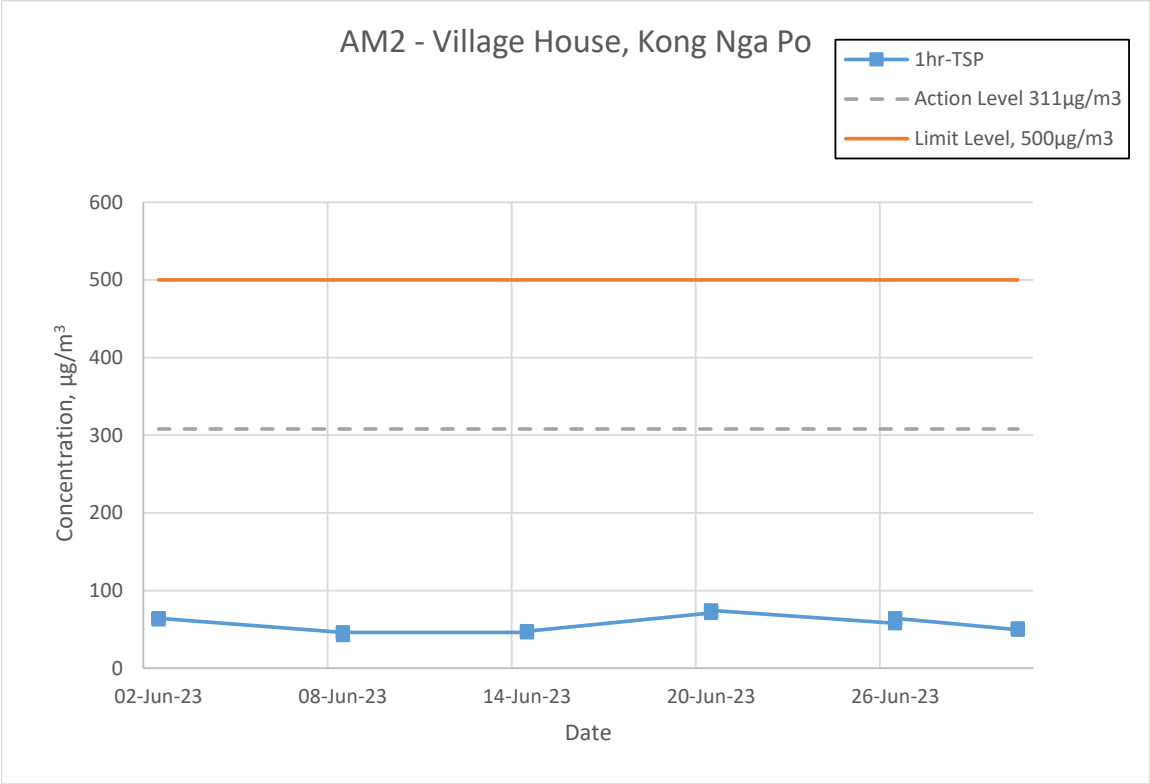
Appendix E - 1-hour TSP Monitoring Results

Location AM1 - Village House, Kong Nga Po			
Date	Time	Weather	Particulate Concentration (μg/m^3)
02-Jun-23	8:45	Cloudy	47
	9:45		50
	10:45		50
08-Jun-23	8:40	Drizzle	42
	9:40		44
	10:40		45
14-Jun-23	8:45	Cloudy	44
	9:45		45
	10:45		45
20-Jun-23	8:40	Cloudy	60
	9:40		63
	10:40		63
26-Jun-23	9:20	Cloudy	59
	10:20		60
	13:00		62
30-Jun-23	8:45	Fine	44
	9:45		45
	10:45		47
		Minimum	42
		Maximum	63
		Average	51

Location AM2 - Village House, Kong Nga Po			
Date	Time	Weather	Particulate Concentration (μg/m^3)
02-Jun-23	10:00	Cloudy	63
	11:00		64
	13:00		64
08-Jun-23	10:00	Drizzle	46
	11:00		43
	13:00		46
14-Jun-23	9:00	Cloudy	46
	10:00		48
	11:00		48
20-Jun-23	10:00	Cloudy	71
	11:00		73
	13:00		74
26-Jun-23	10:00	Cloudy	58
	11:00		64
	13:00		64
30-Jun-23	10:00	Fine	49
	11:00		51
	13:00		51
		Minimum	43
		Maximum	74
		Average	57

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 (m/s)	StartTime	Unit: dB(A) (5-min)			Average	Limit Level	Baseline
				L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}	L_{eq}
08-Jun-23	Drizzle	0.2	9:15	62.8	65.2	55.5	62.5	75.0	55.9
				63.0	65.8	56.2			
				63.4	66.0	56.7			
				61.9	64.8	55.3			
				61.7	64.5	55.6			
				62.2	64.9	55.8			
14-Jun-23	Cloudy	0.2	10:00	61.4	63.6	56.3	62.1	75.0	55.9
				61.7	63.9	56.6			
				62.2	64.4	57.1			
				62.0	63.9	57.6			
				62.4	64.8	58.0			
				63.0	64.9	57.8			
20-Jun-23	Cloudy	0.2	9:45	59.8	62.0	55.9	59.7	75.0	55.9
				60.2	62.4	56.8			
				60.1	62.2	56.5			
				59.3	61.7	56.0			
				58.9	61.4	55.8			
				59.8	61.9	56.2			
26-Jun-23	Cloudy	0.2	10:30	59.4	61.8	56.3	59.9	75.0	55.9
				60.1	62.2	57.0			
				59.8	61.9	56.8			
				60.4	62.7	57.7			
				60.1	62.2	57.4			
				59.7	61.9	56.6			

Location NM10 - Village House, Kong Nga Po									
Date	Weather	Wind Speed (m/s)	Time	Unit: dB(A) (5-min)			Average	Limit Level	Baseline
				L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}	L_{eq}
08-Jun-23	Drizzle	0.2	8:40	53.4	55.9	48.8	53.5	75.0	52.8
				54.0	56.3	49.7			
				54.4	56.8	50.2			
				52.7	54.9	49.0			
				53.1	55.5	49.2			
				52.9	55.1	48.7			
14-Jun-23	Cloudy	0.2	11:20	52.1	53.8	47.1	52.4	75.0	52.8
				51.6	53.4	46.8			
				51.3	53.1	46.6			
				53.2	54.5	46.9			
				53.0	54.2	46.5			
				52.6	53.8	57.4			
20-Jun-23	Cloudy	0.2	10:20	50.5	51.9	47.3	51.0	75.0	52.8
				51.2	52.4	48.5			
				51.6	52.9	48.7			
				50.9	52.5	48.3			
				50.4	51.8	47.2			
				51.0	52.2	47.6			
26-Jun-23	Cloudy	0.2	11:05	52.2	54.0	48.2	51.4	75.0	52.8
				51.4	53.8	47.7			
				51.2	53.5	47.4			
				52.0	53.9	47.3			
				50.9	52.9	47.5			
				50.6	52.5	47.1			

Location NM11 - Village House, Kong Nga Po

Date	Weather	Wind Speed (m/s)	Time	Unit: dB(A) (5-min)			Average	Limit Level	Baseline
				L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}	L_{eq}
08-Jun-23	Drizzle	0.2	11:00	55.1	57.8	50.3	54.2	75.0	46.4
				55.0	57.3	48.9			
				54.4	56.0	50.9			
				52.7	54.9	46.1			
				53.4	55.3	47.9			
				54.2	56.9	46.4			
14-Jun-23	Cloudy	0.2	10:40	49.8	52.0	46.9	50.5	75.0	46.4
				50.8	52.7	47.3			
				50.5	52.3	47.0			
				51.1	52.9	47.4			
				50.2	51.8	46.4			
				50.4	52.1	47.0			
20-Jun-23	Cloudy	0.2	11:00	48.8	51.0	46.7	49.7	75.0	46.4
				49.2	51.4	57.1			
				49.8	52.0	57.7			
				50.3	52.4	58.0			
				50.1	52.2	57.8			
				49.9	51.9	57.4			
26-Jun-23	Cloudy	0.2	10:40	49.0	50.8	45.7	50.2	75.0	46.4
				48.8	50.6	45.3			
				51.2	52.0	47.4			
				51.1	51.8	47.2			
				50.3	51.6	46.8			
				50.1	51.4	46.6			

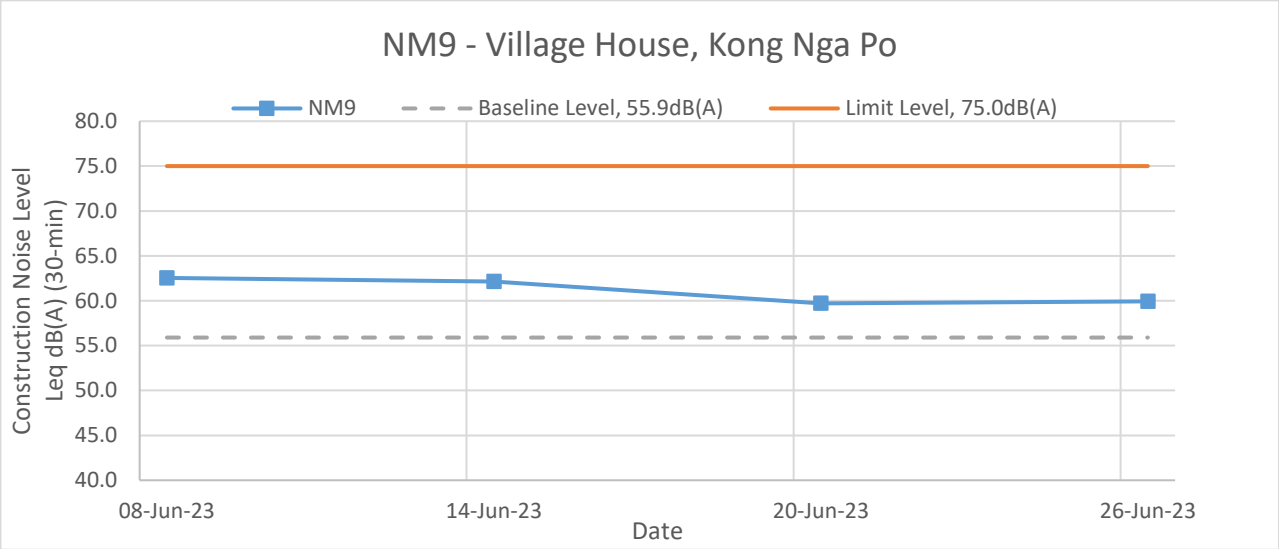
Location NM12 - Village House, Kong Nga Po

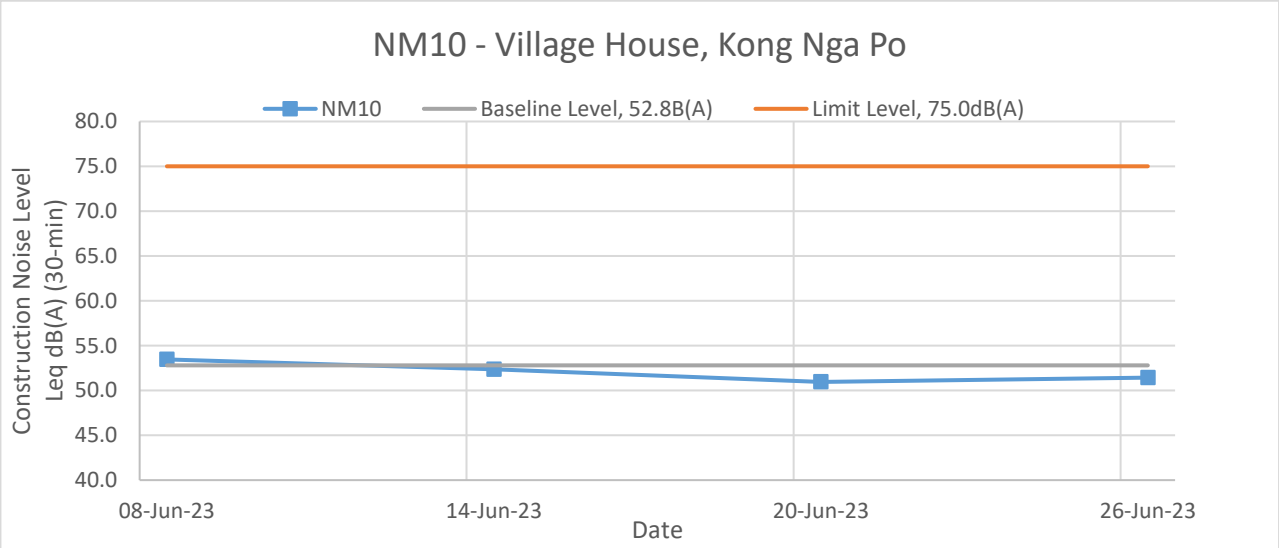
Date	Weather	Wind Speed (m/s)	StartTime	Unit: dB(A) (5-min)			Average	Limit Level	Baseline
				L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}	L_{eq}
08-Jun-23	Drizzle	0.2	10:00	49.6	52.4	46.1	50.2	75.0	54.7
				49.8	52.7	46.6			
				50.2	52.8	46.9			
				50.7	53.1	47.4			
				50.8	53.2	47.7			
				50.2	52.9	46.4			
14-Jun-23	Cloudy	0.2	9:05	51.1	52.9	47.3	50.8	75.0	54.7
				51.6	53.2	47.8			
				50.6	52.1	46.8			
				50.3	51.9	46.3			
				50.2	51.7	46.6			
				50.8	52.0	47.0			
20-Jun-23	Cloudy	0.2	9:00	50.7	51.9	47.2	51.5	75.0	54.7
				51.3	52.5	47.7			
				52.4	53.0	48.2			
				51.9	52.8	48.0			
				51.4	52.3	47.8			
				50.9	51.8	47.4			
26-Jun-23	Cloudy	0.2	9:40	53.2	55.0	49.1	52.8	75.0	54.7
				52.6	54.7	48.6			
				52.3	54.4	58.2			
				51.8	53.9	57.9			
				53.0	55.2	49.0			
				53.4	55.7	49.5			

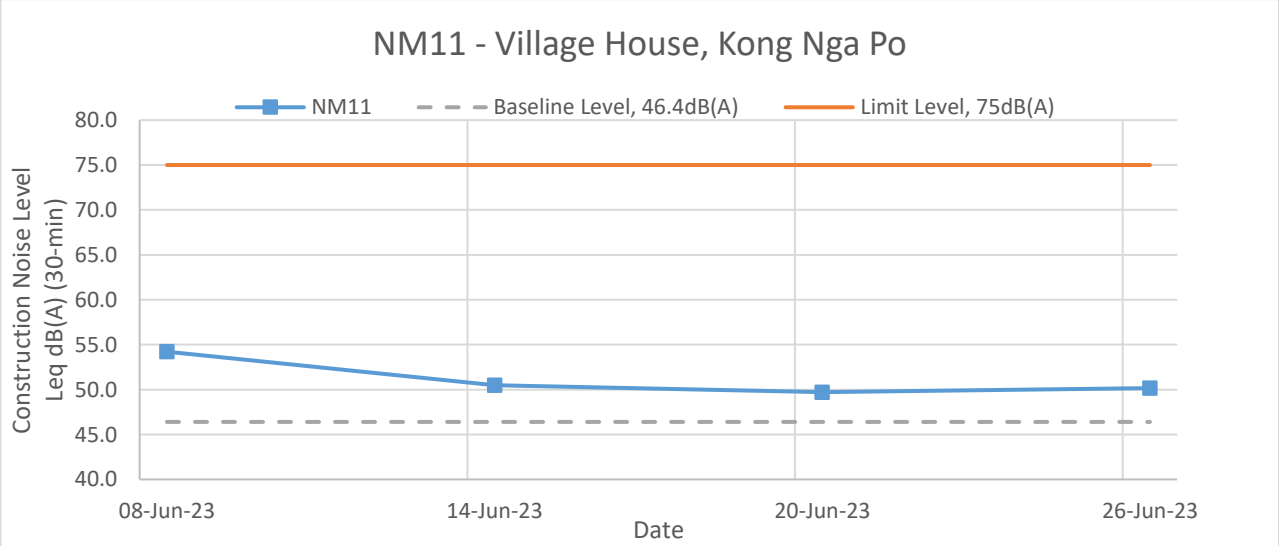
Location NM13 - Village House, Kong Nga Po									
Date	Weather	Wind Speed (m/s)	Time	Unit: dB(A) (5-min)			Average	Limit Level	Baseline
				L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}	L_{eq}
08-Jun-23	Drizzle	0.2	13:40	53.9	56.2	48.8	54.4	75.0	61.3
				54.5	57.1	49.8			
				55.4	57.9	50.6			
				55.1	57.7	50.4			
				53.4	55.9	48.2			
				53.8	56.1	49.2			
14-Jun-23	Cloudy	0.2	10:00	52.6	54.5	49.2	52.7	75.0	61.3
				53.4	55.2	49.8			
				54.2	56.0	50.5			
				51.8	53.6	48.8			
				51.7	53.4	48.9			
				52.0	53.8	49.1			
20-Jun-23	Cloudy	0.2	9:45	53.8	55.2	49.4	53.6	75.0	61.3
				54.2	55.7	50.2			
				54.8	56.0	50.5			
				52.5	55.8	49.6			
				53.1	55.0	49.2			
				52.6	54.7	48.8			
26-Jun-23	Cloudy	0.2	9:45	54.6	56.2	50.2	54.8	75.0	61.3
				55.7	57.0	50.9			
				55.9	57.3	51.1			
				55.2	57.0	50.1			
				53.7	55.8	49.6			
				53.1	55.2	49.0			

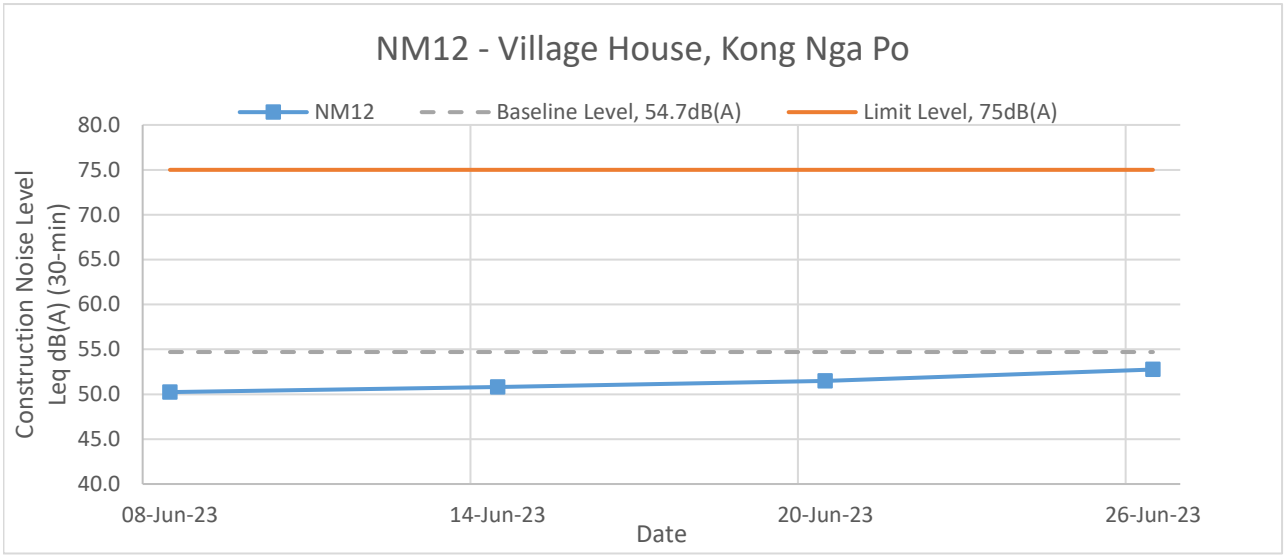
Location NM14 - Village House, near Man Kam To Road									
Date	Weather	Wind Speed (m/s)	Time	Unit: dB(A) (5-min)			Average	Limit Level	Baseline
				L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}	L_{eq}
08-Jun-23	Drizzle	0.2	13:00	50.4	52.5	47.7	51.2	75.0	59.6
				50.9	53.0	48.4			
				51.7	53.9	49.0			
				50.8	52.3	47.4			
				51.1	53.2	48.6			
				52.0	54.1	49.7			
14-Jun-23	Cloudy	0.2	9:15	48.8	49.7	44.6	49.7	75.0	59.6
				49.2	50.8	46.4			
				49.6	51.4	47.0			
				49.8	51.7	47.3			
				50.2	52.0	47.7			
				50.4	52.4	47.9			
20-Jun-23	Cloudy	0.2	9:00	51.4	53.2	47.7	50.5	75.0	59.6
				50.6	52.8	47.2			
				50.9	53.1	47.5			
				50.1	52.4	47.1			
				49.8	51.6	46.9			
				49.9	52.0	47.1			
26-Jun-23	Cloudy	0.2	9:00	49.7	52.0	46.8	49.3	75.0	59.6
				49.2	51.9	46.4			
				48.8	51.6	46.2			
				48.5	51.4	46.3			
				49.0	51.8	46.7			
				50.2	52.0	47.1			

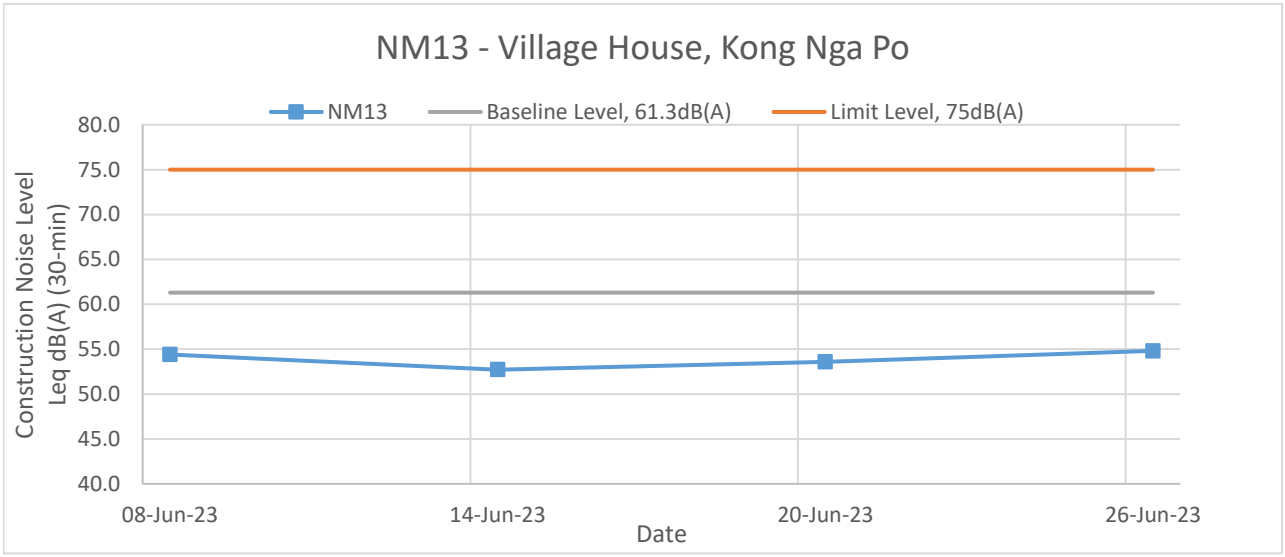
Noise Levels

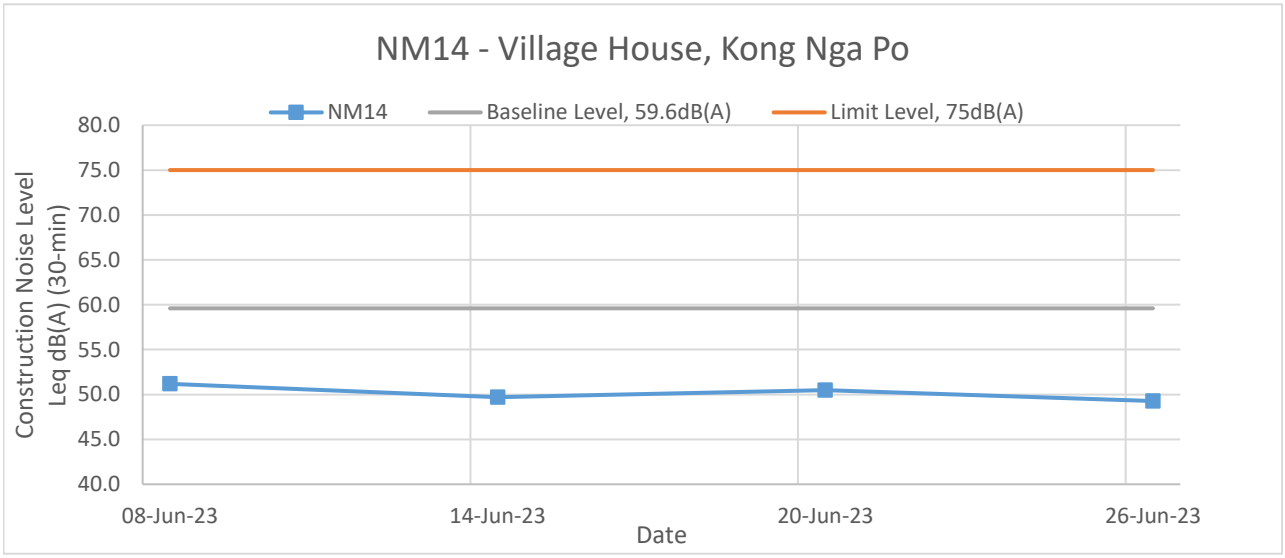







NM12 - Village House, Kong Nga Po
NM12
Baseline Level, 54.7dB(A)
Limit Level, 75dB(A)
Construction Noise Level Leq dB(A) (30-min)
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
08-Jun-23
14-Jun-23
20-Jun-23
26-Jun-23
Date


NM13 - Village House, Kong Nga Po
NM13
Baseline Level, 61.3dB(A)
Limit Level, 75dB(A)
Construction Noise Level Leq dB(A) (30-min)
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
08-Jun-23
14-Jun-23
20-Jun-23
26-Jun-23
Date


NM14 - Village House, Kong Nga Po
NM14
Baseline Level, 59.6dB(A)
Limit Level, 75dB(A)
Construction Noise Level Leq dB(A) (30-min)
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
08-Jun-23
14-Jun-23
20-Jun-23
26-Jun-23
Date

APPENDIX G
WEATHER CONDITION

Appendix G –

General Weather Conditions during the Monitoring Period (June 2023)

Date June	Mean Pressure (hPa)	Air Temperature			Mean Dew Point Temperature (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)
		Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)				
1	1002.8	31.6	29.2	26.2	25.1	79	71	6.0
2	1004.8	35.2	30.7	28.2	25.9	76	48	-
3	1007.6	34.9	30.8	28.9	26.1	76	47	0.6
4	1008.4	32.7	30.0	27.9	26.2	81	65	5.1
5	1007.9	32.9	29.7	27.7	25.7	79	83	4.8
6	1007.8	30.2	28.4	26.8	26.0	87	90	31.1
7	1008.7	31.5	28.5	27.0	26.2	88	85	27.1
8	1007.1	33.1	29.4	27.4	25.9	82	79	2.6
9	1004.2	32.0	29.0	26.7	25.8	83	86	16.8
10	1001.9	33.0	29.5	28.0	25.4	79	85	0.3
11	1001.6	32.5	29.2	27.3	25.9	83	86	25.4
12	1001.9	33.7	30.2	28.2	25.6	77	82	0.2
13	1002.6	32.7	29.8	25.8	26.2	81	86	31.8
14	1004.9	29.6	27.7	25.1	25.4	88	92	62.8
15	1005.1	28.7	27.4	26.1	25.7	91	88	41.5
16	1007.1	28.1	26.4	25.2	25.0	92	90	41.7
17	1009.3	28.0	26.2	25.3	25.2	94	90	89.9
18	1008.9	29.9	28.0	25.7	25.9	89	88	35.8
19	1007.5	31.4	29.1	26.9	26.0	83	87	10.2
20	1007.0	32.2	30.0	27.8	26.1	80	79	2.3
21	1007.4	32.2	30.2	28.7	26.1	79	85	1.9
22	1007.2	32.4	30.2	29.0	25.8	77	88	0.6
23	1006.5	31.2	30.0	28.0	26.1	80	88	2.3
24	1007.1	31.0	29.1	27.4	26.3	85	88	8.2
25	1008.2	32.9	29.4	26.1	26.0	83	88	13.0
26	1008.5	32.9	29.4	26.6	26.2	83	88	11.4
27	1009.5	33.9	30.1	28.1	26.1	80	76	Trace
28	1009.9	31.3	28.8	26.9	26.2	86	84	5.4

29	1006.9	33.3	29.5	27.1	26.3	84	84	0.9
30	1005.6	32.5	29.8	26.5	26.3	82	83	11.2
Mean/Total	1006.5	31.9	29.2	27.1	25.9	83	82	490.9
Normal*	1006.1	30.7	28.3	26.5	24.9	82	77	491.5

* 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 (June 2023)

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

Monitoring and Maintenance Works Report

INSPECTION DATE: 30 JUNE 2023
REPORT DATE: 03 JULY 2023

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

Version: 00

Audit Ref. No. _____

Contract SS K509

Inspected By Lau Siu Yeung (Andy)

Inspection Date 30/06/2023

Time Period 08:00 to 13:00

Part A Weather

Condition ☑ Sunny ☐ Fine ☐ Overcast ☐ Drizzle ☐ Rain ☐ Storm ☐ Hazy

Temperature 29.8 °C

Humidity ☐ High (RH>90%) ☑ Moderate (90%>RH>50%) ☐ Low (RH<50%)

Wind ☑ Calm ☐ Light ☐ Breeze ☐ Strong

Part B

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
1.	**Cycadfern *Brainea insignis***						
1.1	Are the plants' health conditions satisfactory?	☐	☑	☐	☐	☐	
1.2	Are transplanted plants on site protected carefully?	☐	☑	☐	☐	☐	
1.3	Are the temporary protective fence properly erected and maintained?	☐	☑	☐	☐	☐	
1.4	Are the plant protection zone set 1m from the plants?	☐	☑	☐	☐	☐	
1.5	Are all grassed and planted area kept free from weeds/unwanted plants?	☐	☑	☐	☐	☐	
1.6	Is compaction of the soil avoided for the plants?	☐	☑	☐	☐	☐	
1.7	Are litter/ unwanted material removed within the planting area?	☐	☑	☐	☐	☐	
1.8	Are equipment or stockpile placed outside the protection zone?	☐	☑	☐	☐	☐	
1.9	Are soil, debris or construction materials deposited around and against the trunk of a plant as this causes bark damage avoided?	☐	☑	☐	☐	☐	
1.10	Are fixings driven into plants avoided?	☐	☑	☐	☐	☐	
1.11	Are the plants used for anchoring or winching purposes or for the display of signs avoided?	☐	☑	☐	☐	☐	
1.12	Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	☐	☑	☐	☐	☐	
1.13	Are all plants kept free from pest, disease or fungal infection?	☐	☑	☐	☐	☐	
1.14	Are there enough area for growth and development of plant roots?	☐	☑	☐	☐	☐	
1.15a	Is exposure of plant roots avoided?	☐	☑	☐	☐	☐	
1.15b	If not, were broken off or rotting of roots avoided?	☐	☑	☐	☐	☐	

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
2.	**Ladies Tresses *Spiranthes sinensis***						
2.1	Are the plants' health conditions satisfactory?	☐	☑	☐	☐	☐	
2.2	Are transplanted plants on site protected carefully?	☐	☑	☐	☐	☐	
2.3	Are the temporary protective fence properly erected and maintained?	☐	☑	☐	☐	☐	
2.4	Are the plant protection zone set 1m from the plants?	☐	☑	☐	☐	☐	
2.5	Are all grassed and planted area kept free from weeds/unwanted plants?	☐	☑	☐	☐	☐	
2.6	Is compaction of the soil avoided for the plants?	☐	☑	☐	☐	☐	
2.7	Are litter/ unwanted material removed within the planting area?	☐	☑	☐	☐	☐	

		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 the trunk of a plant as this causes bark damage avoided?	☐	☑	☐	☐	☐	
2.10	Are fixings driven into plants avoided?	☐	☑	☐	☐	☐	
2.11	Are the plants used for anchoring or winching purposes or for the display of signs avoided?	☐	☑	☐	☐	☐	
2.12	Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	☐	☑	☐	☐	☐	
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?	☐	☑	☐	☐	☐	
2.15a	Is exposure of plant roots avoided?	☐	☑	☐	☐	☐	
2.15b	If not, were broken off or rotting of roots avoided?	☐	☑	☐	☐	☐	

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
3.	**Incense Trees *Aquilaria sinesis***						
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 the trunk of a tree as this causes bark damage avoided?	☐	☐	☐	☐	☐	
3.10	Are fixings driven into trees avoided?	☐	☐	☐	☐	☐	
3.11	Are the trees used for anchoring or winching purposes or for the display of signs avoided?	☐	☐	☐	☐	☐	
3.12	Are the fire lit below the branches and petrol, oil or caustic substances stored near the trees avoided?	☐	☐	☐	☐	☐	
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?	☐	☐	☐	☐	☐	
3.17	Are leaning of trees avoided?	☐	☐	☐	☐	☐	
3.18	Are dead/detached branches avoided?	☐	☐	☐	☐	☐	
3.19	Are decay/cavity avoided on tree trunks?	☐	☐	☐	☐	☐	

Part C **Follow-up for the Previous Site Audit on Date:** _____ **(Ref. No.**_____**)**

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
1.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	_____
2.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	_____
3.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	_____
4.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	_____
5.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	_____
6.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	_____
7.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	_____
8.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	_____
9.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	_____
10.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	_____

Remarks/Observations

The health condition of the plants were generally improved during the growing season.

Signatures:

Contractor's Representative

(Name: Lau Siu Yeung)
(Date: 30/06/2023)

Supervisor's Rep.

(Name:)
(Date:)

Inspection Date: 30/6/2023

Tree/Plant/ Colony No.	Number of Individuals	Species Name	Form (Good/Fair/Poor)	Health (Good/Fair/Poor)	Remark
C-0001	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	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-0002	01	*Brainea insignis*	F	F	Young leaves observed
	02	*Brainea insignis*	F	F	Young leaves observed
	03	*Brainea insignis*	F	P	Young leaves observed
	04	*Brainea insignis*	F	P	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
C-0003	01	*Brainea insignis*	F	F	Young leaves observed
C-0004	01	*Brainea insignis*	P	P	Young leaves at base; Dry out caused by bushfire initially 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	P	Young leaves at base
	09	*Brainea insignis*	P	P	Dry out caused by bushfire initially outside site boundary 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
	13	*Brainea insignis*	-	-	Stem not found Dry out caused by bushfire initially outside site boundary and high temperature on 2 Feb 2021
	14	*Brainea insignis*	F	F	Young leaves observed
	15	*Brainea insignis*	P	P	Young leaves at base; Dry out caused by bushfire initially outside site boundary and high temperature on 2 Feb 2021
	16	*Brainea insignis*	P	P	Dry out caused by bushfire initially outside site boundary and high temperature on 2 Feb 2021
	17	*Brainea insignis*	P	P	Young leaves observed
	18	*Brainea insignis*	-	-	Burned by bushfire initially 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: 30/6/2023

Tree/Plant/ Colony No.	Number of Individuals	Species Name	Form (Good/Fair/Poor)	Health (Good/Fair/Poor)	Remark
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 at base
	06	*Brainea insignis*	F	F	Young leaves observed
	07	*Brainea insignis*	F	F	Young leaves observed
C-0006	01	*Brainea insignis*	P	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	P	-
	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	-
	03	*Brainea insignis*	P	P	Young leaves at base
	04	*Brainea insignis*	F	F	-
	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	-
	13	*Brainea insignis*	F	F	Young leaves observed

C-0001(Patch)_01

C-0001(Patch)_02

C-0001(Patch)_03

C-0001(Patch)_04

C-0001(Patch)_05

C-0001(Patch)_06

C-0001(Patch)_07

C-0001(Patch)_08

C-0002(Patch)_01

C-0002(Patch)_02

C-0002(Patch)_03

C-0002(Patch)_04

C-0002(Patch)_05

C-0002(Patch)_06

C-0002(Patch)_07

C-0002(Patch)_08

C-0003

C-0004(Patch)_01

C-0004(Patch)_02

C-0004(Patch)_03

C-0004(Patch)_04

C-0004(Patch)_05

C-0004(Patch)_06

C-0004(Patch)_07

C-0004(Patch)_08

C-0004(Patch)_09

C-0004(Patch)_10

C-0004(Patch)_11

C-0004(Patch)_12

C-0004(Patch)_13

C-0004(Patch)_14

C-0004(Patch)_15

C-0004(Patch)_16

C-0004(Patch)_17

C-0004(Patch)_18

C-0004(Patch)_19

C-0004(Patch)_20

C-0005(Patch)_01

C-0005(Patch)_02

C-0005(Patch)_03

C-0005(Patch)_04

C-0005(Patch)_05

C-0005(Patch)_06

C-0005(Patch)_07

C-0006

C-0007(Patch)_01

C-0007(Patch)_02

C-0008(Patch)_01

C-0008(Patch)_02

C-0008(Patch)_03

C-0008(Patch)_04

C-0008(Patch)_05

C-0008(Patch)_06

C-0008(Patch)_07

C-0009

C-0010(Patch)_01

C-0010(Patch)_02

C-0010(Patch)_03

C-0011(Patch)_01

C-0011(Patch)_02

C-0011(Patch)_03

C-0011(Patch)_04

C-0011(Patch)_05

C-0011(Patch)_06

C-0011(Patch)_07

C-0011(Patch)_08

C-0011(Patch)_09

C-0011(Patch)_10

C-0011(Patch)_11

C-0011(Patch)_12

C-0011(Patch)_13

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: 30/6/2023

Tree/Plant/ Colony No.	Species Name	Form (Good/Fair/Poor)	Health (Good/Fair/Poor)	30/6/2023
L-0001	*Spiranthes sinensis*	-	-	Not observed
L-0002	*Spiranthes sinensis*	P	P	Leaf observed
L-0003	*Spiranthes sinensis*	P	P	Leaf observed
L-0004	*Spiranthes sinensis*	-	-	Not observed
L-0005	*Spiranthes sinensis*	-	-	Not observed
L-0006	*Spiranthes sinensis*	-	-	Not observed
L-0007	*Spiranthes sinensis*	-	-	Not observed
L-0008	*Spiranthes sinensis*	P	P	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*	P	P	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*	-	-	Not observed
L-0039	*Spiranthes sinensis*	-	-	Not observed
L-0040	*Spiranthes sinensis*	P	P	Leaf observed
L-0041	*Spiranthes sinensis*	-	-	Not observed
L-0042	*Spiranthes sinensis*	-	-	Not observed

L-0001

L-0002

L-0003

L-0004

L-0005

L-0006

L-0007

L-0008

L-0009

L-0010

L-0011

L-0012

L-0013

L-0014

L-0015

L-0016

L-0018

L-0019

L-0020

L-0021

L-0022

L-0023

L-0024

L-0025

L-0026

L-0027

L-0028

L-0029

L-0030

L-0031

L-0032

L-0033

L-0034

L-0035

L-0036

L-0037

L-0038

L-0039

L-0040

L-0041

L-0042

Contract No.: SS K509
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 (June 2023)

Description of Work	Date																													
	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
Watering		Y					Y							Y							Y									Y
Weeding																														Y
Fertilization																														
Pest/Disease Control																														
Firming up																														
Installation of shaded net																														
Mulching																														
Inspection																														Y
Checking of Protection Zone																														Y
Remarks	R,MH	MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,RH	R,RH	R,RH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH	R,MH

Public Holiday H-Hot D-Drizzle R-Rainy W-Windy RH-High Humidity MH-Medium Humidity LH-Low Humidity

Check fence

watering

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	ETL
Inspection Date	27-6-2023
Time Period	1000-1030

Part A **Weather**

Condition ☐ Sunny ☒ Fine ☐ Overcast ☐ Drizzle ☐ Rain ☐ Storm ☐ Hazy

Humidity ☐ High (RH>90%) ☒ Moderate (90%>RH>50%) ☐ Low (RH<50%)

Wind ☐ Calm ☒ Light ☐ Breeze ☐ Strong

Part B

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
1.	***Cycadfava Bruinea instanis***						
1.1	Are the plants' health conditions satisfactory?	☒	☐	☐	☐	☐	
1.2	Are transplanted plants on site protected carefully?	☒	☐	☐	☐	☐	
1.3	Are the temporary protective fence properly erected and maintained?	☐	☒	☐	☐	☐	
1.4	Are the plant protection zone set 1m from the plants?	☒	☐	☐	☐	☐	
1.5	Are all grassed and planted area kept free from weeds/unwanted plants?	☒	☐	☐	☐	☐	
1.6	Is compaction of the soil avoided for the plants?	☒	☐	☐	☐	☐	
1.7	Are litter/ unwanted material removed within the planting area?	☐	☒	☐	☐	☐	
1.8	Are equipment or stockpile placed outside the protection zone?	☐	☐	☒	☐	☐	
1.9	Are soil, debris or construction materials deposited around and against the trunk of a plant so this causes bark damage avoided?	☐	☐	☒	☐	☐	
1.10	Are fixings driven into plants avoided?	☒	☐	☐	☐	☐	
1.11	Are the plants used for anchoring or winching purposes or for the display of signs avoided?	☒	☐	☐	☐	☐	
1.12	Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	☐	☐	☒	☐	☐	
1.13	Are all plants kept free from pest, disease or fungal infection?	☒	☐	☐	☐	☐	
1.14	Are there enough area for growth and development of plant roots?	☒	☐	☐	☐	☐	
1.15a	Is exposure of plant roots avoided?	☒	☐	☐	☐	☐	
1.15b	If not, were broken off or rotting of roots avoided?	☒	☐	☐	☐	☐	
2.	**Ladies Tresses *Spiranthes sinensis***						
2.1	Are the plants' health conditions satisfactory?	☒	☐	☐	☐	☐	
2.2	Are transplanted plants on site protected carefully?	☒	☐	☐	☐	☐	
2.3	Are the temporary protective fence properly erected and maintained?	☐	☒	☐	☐	☐	
2.4	Are the plant protection zone set 1m from the plants?	☒	☐	☐	☐	☐	
2.5	Are all grassed and planted area kept free from weeds/unwanted plants?	☒	☐	☐	☐	☐	
2.6	Is compaction of the soil avoided for the plants?	☒	☐	☐	☐	☐	
2.7	Are litter/ unwanted material removed within the planting area?	☐	☒	☐	☐	☐	

Post-transplantation Monitoring Checklist
Police Facilities in Kong Nga Po

		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 the trunk of a plant so this causes bark damage avoided?	☐	☐	☒	☐	☐	
2.10	Are fixings driven into plants avoided?	☒	☐	☐	☐	☐	
2.11	Are the plants used for anchoring or winching purposes or for the display of signs avoided?	☒	☐	☐	☐	☐	
2.12	Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	☐	☐	☒	☐	☐	
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?	☒	☐	☐	☐	☐	
2.15a	Is exposure of plant roots avoided?	☒	☐	☐	☐	☐	
2.15b	If not, were broken off or rotting of roots 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) The advisable installation of a shaded net is provided below.

IEC	ETL	Contractor Representative
Name: Mr. Law	Name: Mr. Lee	Name: Marian Kong
Date: 4/7/2023	Date: 27-6-2023	Date: 4/7/2023

The advisable 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

EVENT	ACTION			
	ET	IEC	PERMIT HOLDER	CONTRACTOR
ACTION LEVEL				
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.	1. Check monitoring data submitted by ET; 2. 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	1. Identify source; 2. Inform IEC, ER andContractor; 3. Advise the WKCDA on theeffectiveness of the proposed remedial measure; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedialactions required; 7. If exceedance continues, arrange meeting with IECand ER; and	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; and 5. Monitor Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; and 3. Amend proposal if appropriate.

EVENT	ACTION			
	ET	IEC	PERMIT HOLDER	CONTRACTOR
	8. If exceedance stops, cease additional monitoring.			
LIMIT LEVEL				
1.Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; and 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and the ER informed of the results.	1. Check monitoring data submitted byET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness ofthe proposed remedial measures;and 5. Monitor the implementation of remedial measures.	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	1. Notify IEC, the ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine	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 actionto avoid further exceedance; 2. Submit proposals for remedial actions to IECwithin 3 working days of notification; 3. Implement the agreedproposals;

EVENT	ACTION			
	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 8. If exceedance stops, cease additional monitoring.	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 Contractor to stopthat portion of work until the exceedances is abated.	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.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker

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

EVENT	ACTION			
	ET	**IEC**	**PERMIT HOLDER**	**CONTRACTOR**
Action Level	1. Notify ER, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; and 5. Increase monitoring frequency to check mitigation effectiveness.	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	1. Inform IEC, ER and Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase the monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on	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	ACTION			
	ET	IEC	PERMIT HOLDER	CONTRACTOR
	remedial measure required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.		stopping the Contractor to continue working in that portion of work which causes the exceedance until the exceedance is abated.	determined by the ER until the exceedance is abated.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker

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

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

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-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract		Cumulative No. of Exceedance recorded
		Action Level	Limit Level	Action Level	Limit Level	
Air Quality	1-hr TSP	0	0	0	0	0

(B) Exceedance Report for Construction Noise

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract		Cumulative No. of Exceedance recorded
		Action Level	Limit Level	Action Level	Limit Level	
Noise	$L_{eq(30\ min.)}$ dB(A)	0	0	0	0	0

APPENDIX K
ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
Air Quality Impact – Construction Phase							
3.91	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: • Use of regular water spraying (once every 1.25 hours or 8 times per day) to reduce dust emissions from heavy construction activities (including ground excavation, earth moving, etc.) at all active works area exposed site surfaces and unpaved roads, particularly during dry weather. • 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 handing at the stockpile areas.	Construction Dust	Contractor	Project construction site / Duration of the construction phase / Prior to commencement of operation	Construction phase	^
		Relevant dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted: **Good Site Management** • Good site management is important to help reduce potential air quality impact down to an acceptable level.					^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		As a general guide, the Contractor should maintain high standards of housekeeping to prevent emissions of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or byproducts should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.					
		Disturbed Parts of the Roads • Main temporary access points should be paved 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 wet.					^
		Exposed Earth • Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex,					^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.					
		Loading, Unloading or Transfer of Dusty Materials • All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.					*
		Debris Handing • Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. • Before debris is dumped into a chute, water should be sprayed onto the debris so that it remains wet when it is dumped.					^ ^
		Transport of Dusty Materials • Vehicles used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards.					^
		Wheel Washing • Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the					*

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.					
		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. • Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.					^ ^ ^
		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.					N/A

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
Noise Impact – Construction 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: • Only well-maintained plant to be operated onsite andplant should be serviced regularly during the construction works; • Machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum; • Plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; • Mobile plant should be sited as far away from NSRs as possible; and • Material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.	Maintain good site practice to minimise / avoid construction noise impact	Contractor	Within the Project site / During construction phase / Prior to commencement of operation.	Construction Phase	^ ^ ^ ^ ^
4.4.6	3.2	**Adoption of QPME** • QPME should be adopted as far as applicable.	Minimise/ avoid construction noise	Contractor	Within the	Construction Phase	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
4.4.6	3.2	**Use of Movable Barriers** • Movable noise barriers should be placed along the active works area and mobile plants to block the direct line of sight between PME and the NSRs.	impacts to the surrounding NSRs		Project site / During construction phase / Prior to commencement of operation.		^
4.4.6		**Use of Noise Enclosure/ Acoustic Shed** • Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator.					N/A
4.4.6		**Use of Noise Insulating Fabric** • Noise insulating fabric can also be adopted for certain PME (e.g. pilling machine etc.).					^
Water Quality Impact – Construction Phase							
5.6.1.1	4.2	**General Construction Activities** The following measures should be implemented: • Construction waste, debris and refuse generated on-site should be stored or contained appropriately to prevent them entering nearby watercourses or blocking stormwater drains. • 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. • Stockpiles of construction materials such as cement and	Maintain good site practices to avoid pollution of water courses	Contractor	Within the Project site / During construction phase	Construction Phase	^ ^ *

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		excavated material should be covered when not in use to reduce the potential for water pollution.					
5.6.1.2	4.2	**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. • Perimeter cut-off drains shall be installed in advance of any earthworks and site formation work to convey site runoff from the works areas to the silt removal facilities. • 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. • Maintenance and inspection of the drainage system and sediment removal facilities should be carried out regularly to remove any sediment and blockages, especially when	Minimise / control construction site runoff to avoid pollution of water courses	Contractor	Within the Project site / During construction phase	Construction Phase	^ ^ ^ *

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		rainstorms are forecast. • Final surface levels should be compacted and final surface protections installed to prevent erosion caused by rainstorms. • 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 system. • 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. • Surface water from concrete batching areas and the rest of the site should be separated as far as possible. Wastewater from any concrete batching plant (if required) shall be treated to the required standards including pH adjustment and settlement of suspended sediments before discharging to stormwater drains • 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 debris from entering the drainage system, and to prevent					^ * * ^ ^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		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).					^
5.6.1.3	4.2	**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. • Oils and fuels should only be stored in designated areas which have appropriate pollution prevention control	Prevent accidental discharge of chemicals into the surrounding environment	Contractor	Within the Project site / During construction phase	Construction phase	^ ^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		facilities such as oil and grease traps. • The maintenance of vehicles should only be undertaken in areas of the site served by appropriate pollution prevention control facilities. • To prevent the spillage of fuels and solvents to nearby stormwater drains, all fuel tanks and storage areas should be locked and sited on sealed areas of the site, within bunded areas with a capacity equal to 110% of the storage capacity of the largest container. The bund should be kept free of surface water at all times and after each rainfall event.					^ ^
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 waste collector 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	construction phase	^
5.6.1.5	4.2	**Construction Works in Close Proximity to Inland Watercourses** Mitigation measures such as such as temporary diversions of existing drainage culverts/ watercourses before construction commences and during construction should be implemented, in addition to those listed in ProPECC Note PN1/94 *Construction*	Minimise/ control construction site discharges to avoid pollution of nearby watercourses	Contractor	Within the Project site / During construction phase	construction phase	

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Site Drainage and ETWB TC (Works) No. 5/2005 Protection of Natural Streams/rivers from Adverse Impacts Arising from Construction Works. Measures include the following: • Stockpiling of construction materials and spoil, should be properly covered and located away from any natural stream/river. • Construction works close to the inland waters should be carried out in dry season as far as practicable where the flow in the surface channel or stream is low. • Removal of existing vegetation alongside the riverbanks should be avoided or minimised. When disturbance to vegetation is unavoidable, all disturbed areas should be hydroseeded or planted with suitable vegetation to blend in with the natural environment upon completion of works.					N/A N/A N/A
Waste Management Implications – Construction Phase							
7.5.1.1	6.2	**Good Site Practice** Recommendations for good site practices during the construction activities include: • Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an	Implement good site practices to minimize waste generation	Contractor	Project construction site / Throughout construction stage / Until completion of all construction	Construction phase	*

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		appropriate facility, of all wastes generated at the site • Training of site personnel in proper waste management and chemical handling procedures • Provision of sufficient waste disposal points and regular collection of waste • Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers • Stockpiles of C&D materials should be kept covered by impervious sheets to avoid windblown dust • All dusty materials including C&D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the stockpile areas • Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads • Well planned delivery programme for off-site disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated			activities		^ ^ ^ ^ ^ ^ ^
7.5.1.2	6.2	**Waste Reduction Measures**	Implement good	Contractor	Project	Construction phase	

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: • Sort non-inert C&D materials to recover any recyclable portions • 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 • Encourage collection of recyclable waste such as waste paper and aluminum cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force • Proper site practices to minimize the potential for damage or contamination of inert C&D materials • Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste	management and control to minimize waste generation		construction site / Throughout construction stage / Until completion of all construction activities		^ ^ ^ ^ ^
7.5.1.3	6.2	**Inert and Non-inert C&D Materials** In order to minimise impacts resulting from collection and transportation of inert C&D materials for off-site disposal, the	Minimise impacts resulting from collection and transportation of inert C&D	Contractor	Project construction site / Throughout	Construction phase	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		inert C&D materials should be reused on-site as fill material as far as practicable. In addition, inert C&D materials generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation. The surplus inert C&D materials will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site. In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the DEVB Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the ETWB Technical Circular (Works) No. 19/2005 Environmental	materials		construction stage / Until completion of all construction activities		^ ^ ^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Management on Construction Site					
7.5.1.4	6.2	**Chemical Waste** If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the"Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidising, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended	Implement good practices to avoid chemical waste impact.	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities	Construction phase	^

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
7.5.1.5	6.2	**General Refuse** General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'windblown' light material.	Implement good practices to avoid odour nuisance or pest/vermin problem and waste impact.	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities	Construction phase	*
Land Contamination – Construction Phase							
8.6.1	7.2	In any case where contaminated soil is identified after the commencement of works, a Contamination Assessment Plan (CAP) is required to be prepared for EPD's endorsement prior to the site investigation. The Contamination Assessment Report (CAR) and/ or Remediation Action Plan (RAP) should be prepared for EPD's approval after the site investigation. If land contamination is confirmed, remediation works should be carried out according to the approved RAP. A Remediation Report (RR) should also be prepared for EPD's endorsement to demonstrate that the clean-up of the contaminated land is completed. No construction work or development of the site should be carried out before the approval of the RR.	Assessment is required for EPD approval in any case where contaminated soil is identified	Contractor	Project construction site / Before construction stage	Design phase	N/A
8.6.1	7.2	The following mitigation measures are proposed for	Minimise impacts resulting	Contractor	Project	Construction phase	

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		contaminated material excavation and transportation of contaminated materials (if any), in order to minimise the potentially adverse effects health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials: • To minimise the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; • Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when working directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; • Stockpiling of contaminated excavated materials on site should be avoided as far as possible; • The use of any contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; • Vehicles containing any excavated materials should be suitably covered to reduce dust emissions and / or release of contaminated wastewater; • Truck bodies and tailgates should be sealed to stop any	from excavation and transportation in the of contaminated materials		construction site / Throughout construction stage / Until completion of all construction activities		N/A N/A N/A N/A N/A N/A

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		discharge; • Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; • Speed control for trucks carrying contaminated materials should be exercised; • Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354C) and obtain all necessary permits where required; and • Maintain records of waste generation, disposal quantities and disposal arrangements.					N/A N/A N/A N/A
Ecological 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	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	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities	Construction phase	*

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		interest identified in the detailed vegetation survey should be conducted during the construction phase.	interest are not affected by the construction activities of the project.				

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
-	-	**Drainage system** • Proper drainage system should be installed to collect and dispose rainwater • Installation of sediment/rubbish trapping facilities (e.g. catch pits or sand/silt traps to contain the increase in suspended solids and materials in the storm water drainage system so as to avoid pollutants being washed out during heavy rainstorms)	Prevent discharge of pollutant into the surrounding environment	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase	Construction phase	^ ^
-	-	**Good Site Practice Measures** • Placement of stockpiling into designated area should be selected at disturbed area in order to minimize the disturbance to wildlife • Open fire should be strictly prohibited • The boundary of project boundary should be clearly demarcated • General drainage system arrangement should include sediment and oil trapper to collect the site run-off • Waste bin should be provided to collect the general refuse and construction waste	To avoid potential impact on Golden-headed Cisticola	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase	Construction phase	^ ^ ^ ^ ^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
Landscape and Visual 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	Design and construction phase	*
Table 10.11	Table 9.1	CM02: If removal of trees unavoidable due to construction impacts, trees will be transplanted where technically feasible in accordance with "Guidelines on Tree Transplanting" by DEVB and HQ/GN/13 and HQ/GN/13 – Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit where applicable.	Preserve and protect existing trees	Contractor	Project area / During design stage / construction phase / Establishment Period	Design and construction phase	^
Table 10.11	Table	CM03: Construction area control, where possible, to ensure that	Minimise landscape and	Contractor	Project area /	Construction phase	^

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	9.1	the landscape and visual impacts arising from the construction activities are minimised. This includes the reduction of the extent and location of working areas to avoid sensitive LRs, siting of offices or temporary structures so that they are not visually prominent, and consideration of detailed schedules to shorten the construction period. Temporary landscape treatments are considered to be adopted such as applying hydro-seeding on temporary stockpiles and areas of earthworks to alleviate the potential impacts and minimise soil erosion.	visual impacts.		During design stage / construction phase.		
Table 10.11	Table 9.1	CM04: Replanting of existing / disturbed vegetation shall be undertaken as soon as technically feasible during the construction phase. The priority shall be areas at the periphery of the site to ensure that proposed planting fulfils its role in mitigating the predicted impacts including screening views of the proposals as early as possible during the operation phase.	Maximise the mitigation effect of the planting to minimise landscape and visual impacts.	Contractor	Project area / During design stage / construction phase / Establishment Period	Construction phase	N/A
Table 10.11	Table 9.1	CM05: Decorative screen hoarding will be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs) to screen undesirable views of the works site. It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used.	Minimise landscape and visual impacts.	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase.	Construction phase	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
Landscape and Visual Impacts (Recommended Mitigation Measures from Landscape and Visual Mitigation Plan)							
-	-	**Tree protection and preservation** a. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at the detailed design stage for further retention of individual trees. b. During construction period, retained trees will be protected from impact from construction activity as per General Specification for Civil Engineering Works (2006 Edition), Section 26 – Preservation and Protection of Trees and Guidelines on Tree Preservation during Development.	To avoid potential impact on retained tree from construction activities such as materials storage; To make sure that the retained tree are not affected by the construction activities of the Project	CEDD's and ArchSD's Contractors	CEDD: Along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD: Within KNP Police Facilities Site	Design and construction phase of CEDD's and ArchSD's Contracts	^
-	-	**Tree transplantation** a. If removal of trees unavoidable due to construction impacts, trees will be transplanted where technically feasible in accordance with "Guidelines on Tree Transplanting" by DEVB and HQ/GN/13 and HQ/GN/13 – Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit where applicable.	To preserve the trees with conservation interest which are unavoidably affected by the construction activities.	CEDD's Contractors	The location of three *Aquilaria sinensis* at Site Portion B and D, and the receptor site for the transplanted trees opposite Portion B1 of the site.	Construction Stage of CEDD's contracts	^
-	-	**Work area and temporary works area**	To minimize the landscape	CEDD's and	CEDD: Along	Construction	^

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		a. Reduction of the extent and location of working areas to avoid sensitive LRs b. Siting of offices or temporary structures so that they are not visually prominent c. Consideration of detailed schedules to shorten the construction period d. Temporary landscape treatments are considered to be adopted such as applying hydro-seeding on temporary stockpiles and areas of earthworks to alleviate the potential impacts and minimise soil erosion.	and visual impacts by construction area control	ArchSD's Contractors	KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD: Within KNP Police Facilities Site	Stage of CEDD's and ArchSD's Contracts	^ ^ ^
-	-	**Advance implementation of mitigation planting** a. Replanting of existing / disturbed vegetation shall beundertaken as soon astechnically feasible during the construction phase.	To mitigate the predicted impacts including screening views of the proposals as early as possible during the operation phase.	CEDD's and ArchSD's Contractors	Whole project site area, priority given to periphery of the site	Construction Stage of CEDD's and ArchSD's Contracts	N/A
-	-	**Decorative screen hoarding** a. Decorative screen hoarding will be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs) b. It is proposed that the screening be compatible with the	To screen undesirable views of the works site.	CEDD's and ArchSD's Contractors	Along areas of the construction works site boundary where the works site borders publically	Construction Phase CEDD's and ArchSD's Contracts	^ ^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		surrounding environment and where possible, non-reflective, recessive colours be used.			accessible routes and/or is close to visually sensitive receivers (VSRs)		
-	-	**Detail design considerations** a. Detailed design of development components should reduce landscape footprint and visibility of structures.	To reduce the area allowed for any development to a practical minimum	CEDD's Detailed Designers / Consultants ArchSD's Detailed Designers / Consultants	CEDD: Along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD: Within KNP Police Facilities Site	Design Stage of CEDD's and ArchSD's Contracts	N/A
-	-	**Aesthetically pleasing design and responsive design of buildings and structures** a. The form, textures, finishes and colours of the proposed development components should be compatible with the existing surroundings. Light earthy tone colours such as shades of green, grey, brown and off-white may be utilised where technically feasible to reduce the visibility of the development components, including all roadwork, buildings and noise barriers etc	a. To reduce the visibility of the development components b. To further improve visual amenity c. To reduce the mass of development d. To minimise the 'wall	ArchSD's Detailed Designers / Consultants	Within KNP Police Facilities Site	Design Stage ArchSD's Contract	N/A

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		b. Adopting natural building materials such as stone and timber should be for architectural features, where technically feasible. c. Using responsive design for the disposition of the main elements of the proposed scheme including the locations of buildings and utility structures. d. Grouping of utilities and infrastructure components into proposed buildings as far as technically feasible to reduce the mass of development e. The disposition and height profile of the developments and above ground utilities structures to respond to the existing context particularly the existing landform and preserved trees, f. Creation of setbacks, articulating the development frontage and maintenance of view corridors when technically feasible	effects' and create a subtle transition at the edges of the site e. To enhance the sense of visual integration with the existing context, avoid abrupt transitions between the existing and proposed built environment and reduce the apparent visual mass of the proposed developments.				
-	-	**Design of engineering structure** a. The design of the proposed Engineering Structures such as the proposed road layout and any ancillary structures including the sewage pumping station and the Ma Tso Lung Firing Range should pay particular attention to the appearance and construction methods. b. The detailed design landscape consultants shall work in unison with the engineers on the aesthetic aspects of the structures and	To give the engineering structures a more natural appearance that allows them to blend into the local rural landscape.	CEDD's Detailed Designers / Consultants	Whole project site area	Design Stage of CEDD's Contracts	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

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		their relationship with the landscape. c. The design of engineering structures shall avoid any unnecessary visual clutter achieved through the co-ordination of the various engineering disciplines involved to arrive at integrated design solutions.					
-	-	**Design of retaining walls and slopes** a. The proposed treatment of Retaining Wall and Slopes will be undertaken in accordance with GEO Publication No. 1/2011 "Technical Guidelines on Landscape Treatment and Bioengineering for Man-made Slopes and Retaining Walls". b. These engineering structures will be aesthetically enhanced through the use of soft landscape works including tree and shrub planting.	To give man-made slopes a more natural appearance blending into the local rural landscape.	CEDD's Detailed Designers / Consultants	Retaining walls and slopes within the whole site area	Design Stage of CEDD's Contracts	^
-	-	**Compensatory planting proposal** a. All compensatory planting of trees is to be carried out in accordance with DEVB TCW No. 7/2015. A total woodland compensation area of 5.54 ha is proposed. b. The planting proposals will utilise largely native species in accordance with GLTM/DEVB's - Guiding Principles on Use of Native Plant Species in Public Works Projects, c. Some compensatory shrub and ground cover planting will also	To compensate for the existing dead trees to be removed and create a more structurally diverse woodland.	CEDD's and ArchSD's Contractors	CEDD: Along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD: Within KNP Police	Construction Stage of CEDD's and ArchSD's Contract	N/A

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		be provided within the woodland area to create a more structurally diverse woodland. d. Woodland areas will utilise a combination of large sized tree stock (including heavy standard sized trees) and whip sized trees to create a more naturalistic e. The smaller, younger plant stock will adapt to their new growing conditions more quickly than larger sized stock and establish a naturalistic effect more rapidly. f. Roadside and amenity planting will utilise largely heavy standard sized trees.			Facilities Site		
-	-	**Landscape buffer tree planting** a. Tree planting using larger sized tree stock shall be provided to screen the proposed structures and associated facilities. b. The planting will utilise native species wherever possible.	To improve compatibility with the surrounding environment and create a pleasant pedestrian environment.	CEDD's and ArchSD's Contractors	CEDD: along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD : within KNP Police Facilities Site	Construction Stage of CEDD's and ArchSD's Contract	N/A
-	-	**Roadside and amenity planting (within KNP Police Facilitate Site)**	To enhance the landscape and visual quality of the existing and proposed	ArchSD's Contractor	KNP Police Facilities Site	Construction Stage of ArchSD's	N/A

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		a. Roadside and amenity planting using predominantly native species	transport routes and car parks.			Contract	
-	-	**Grassland (ecological mitigation)** a. Creation of new grassland areas approximately 1.02 ha in size. Inclusion of common grass species *Ischaemum barbatum* and *Tetradium glabrifolium* (the larval food plants for butterfly species).	To provide larval food plants for the butterfly species.	ArchSD's Contractor	ArchSD : within KNP Police Facilities Site	Construction Stage of ArchSD's Contract	N/A
-	-	**Green roof (within KNP Police Facilitate Site)** a. Green roofs predominantly using native species shall be introduced where technically feasible on proposed buildings to reduce exposure of untreated concrete surfaces b. Location and extent of green roof subject to detailed design.	To enhance the sustainability of the design and mitigate visual impact to VSRs at high levels	ArchSD's Contractor	Within KNP Police Facilitate Site	Construction stage of ArchSD's Contract	N/A
-	-	**Vertical greening** a. Vertical planting shall be introduced using predominantly native species. b. Planting to utilise climbing and trailing plants. Location and extent of vertical greening subject to detailed design.	To soften the hard, vertical surfaces of the proposed development components including the walls of the proposed buildings and retaining walls.	CEDD's and ArchSD's Contractors	CEDD: along KNP Road where applicable and slopes within KNP Police Facilitate Site ArchSD : within KNP Police Facilitate Site	Construction Stage of CEDD's and ArchSD's Contracts	N/A
-	-	**Green paving (within KNP Police Facilitate Site)**	To reduce the area of	ArchSD's Contractor	Within KNP	Construction stage	N/A

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		a. Green paving approach such as grass-crete or grass-grid to maximise the area of planting and reduce the area of hard paving b. Location and extent of green paving subject to detailed design of the ArchSD's contract. This includes the use of permeable paving where grass-crete / grass grid is not practicable.	hard paving		Police Facilitate Site	of ArchSD's Contracts	
-	-	**Light control (operation)** a. Street and night time lighting glare will be controlled	To minimize glare impact to adjacent VSRs during the operation stage.	HKPF and HyD	HKPF: Within KNP Police Facilitate Site HyD: Along Kong Nga Po Road	Operation Stage	N/A

Implementation status:

^ Mitigation measure was implemented

* Observation/reminder was made during site audit but improved/rectified by the contractor

\# Observation/reminder was made during site audit but not yet improved/rectified by the contractor

X Non-compliance of mitigation measure

• Non-compliance but rectified by the contractor

N/A Not Applicable at this stage as no such site activities were conducted in the reporting period

APPENDIX L
WASTE GENERATION IN THE REPORTING MONTH

Name of Department: ArchSD

Monthly Summary Waste Flow Table for 2023 (year)

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

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly				
	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^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m^3)
Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020
Jun	0.988	0.000	0.000	0.000	0.000	0.988	0.000	0.000	0.000	0.000	0.000	0.046
Sub-total	0.988	0.000	0.000	0.000	0.000	0.988	0.000	0.000	0.000	0.000	0.000	0.086
Jul												
Aug												
Sep												
Oct												
Nov												
Dec												
Total	0.988	0.000	0.000	0.000	0.000	0.988	0.000	0.000	0.000	0.000	0.000	0.086

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 this 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.

APPENDIX M
COMPLAINT LOG

Appendix M - Complaint Log

Reporting month: June 2023

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Cumulative Complaint Log

Reporting Period	Total no. of Complaint Received
This reporting month	0
From 1th June 2023 to end of the reporting month	0

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
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