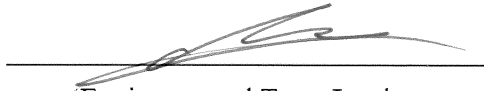


Civil Engineering and Development Department

Trunk Road T2
Monthly Environmental Monitoring and Audit Report
(under EP-458/2013/C)
October 2024
(Version 1.0)

Approved By 
(Environmental Team Leader:
Mr. KS Lee)

REMARKS:

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

CINOTECH accepts no responsibility for changes made to this report by third parties

CINOTECH CONSULTANTS LTD
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong
Tel: (852) 2151 2083 Fax: (852) 3107
1388
Email: info@cinotech.com.hk

Ref.: CEDKTD2EM00_0_0685L.24.doc

12 November 2024

Hyder-Meinhardt Joint Venture
23/F, Two Harbour Square
180 Wai Yip Street, Kwun Tong
Kowloon, Hong Kong

By Post and Email

Attention: Mr. Edwin Ching

Dear Mr. Ching,

**Re: Agreement No. EDO 01/2019
Independent Environmental Checker for
Contract No. ED/2018/04 – Trunk Road T2 and Infrastructure Works for
Developments at the Former South Apron**

Monthly EM&A Report (October 2024) for EP-458/2013/C

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for October 2024 (Version 1.0) certified by the ET Leader and provided to us via email on 12 November 2024. We are pleased to inform you that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.4 of EP-458/2013/C.

Thank you for your attention. Please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,
For and on behalf of
Ramboll Hong Kong Limited



Y H Hui
Independent Environmental Checker

c.c. CEDD
BTP
Cinotech

Attn.: Mr. Tommy Wong
Attn.: Mr. Ivan Chau
Attn.: Mr. K. S. Lee

By Fax: 2739 0076
By Email
By Fax: 3107 1388

Q:\Projects\CEDKTD2EM00\02 Proj_Mgt\02 Corr\CEDKTD2EM00_0_0685L.24.doc

TABLE OF CONTENTS

Page

EXECUTIVE SUMMARY	1
Introduction.....	1
Summary of Main Works Undertaken and Key Measures Implemented	1
Environmental Monitoring Works	2
Key Information in the Reporting Month	4
Reporting Changes.....	5
Future Key Issues.....	6
1. INTRODUCTION.....	7
Background.....	7
Purpose of the Report.....	8
Project Organizations.....	8
Construction Activities undertaken during the Reporting Month	9
Summary of EM&A Requirements	9
Status of Environmental Licensing and Permitting	10
2. AIR QUALITY.....	11
Monitoring Requirement.....	11
Monitoring Locations.....	11
Monitoring Parameters and Frequency	11
Monitoring Equipment.....	12
Monitoring Methodology.....	12
Results and Observations	14
Comparison of EM&A Result with EIA Prediction	15
3. NOISE	18
Monitoring Requirements	18
Monitoring Locations.....	18
Monitoring Parameters, Frequency and Duration.....	18
Monitoring Equipment.....	19
Monitoring Methodology and QA/QC Procedure	19
Maintenance and Calibration	19
Results and Observations	20
Comparison of EM&A Result with EIA Prediction	21
4. WATER QUALITY.....	22
Monitoring Requirement.....	22
5. WASTE MANGEMENT.....	22
6. ECOLOGY	23
7. FISHERIES	23
8. CULTURAL HERITAGE.....	23
9. LANDSCAPE AND VISUAL IMPACT	24

10. LANDFILL GAS MONITORING	24
Monitoring Requirement.....	24
11. HAZARD TO LIFE	24
12. ENVIRONEMNTAL AUDIT	25
Site Audits.....	25
Implementation Status of Environmental Mitigation Measures	25
Implementation Status of Event and Action Plans	26
13. ENVIRONMENTAL NON-COMFORMANCE.....	26
Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution	26
Summary of Exceedance.....	26
14. FUTURE KEY ISSUES.....	26
Monitoring Schedule.....	27
15. CONCLUSION AND RECOMMENDATION	28
Conclusions.....	28
Recommendations.....	28

LIST OF TABLES

Table I	Summary of Key Construction Work in the Reporting Month
Table II	Summary of Key Mitigation Measures Implemented in the Reporting Month
Table III	Non-compliance (exceedance) Record for the Project in the Reporting Month
Table IV	Monthly Complaints, Notifications of Summons and Successful Prosecutions in the Reporting Month
Table V	Summary of Complaints Details in Reporting Month
Table VI	Summary Table for Site Activities in the next Reporting Period
Table 1.1	Key Project Contacts
Table 1.2	Summary of Key Construction Work in the Reporting Month
Table 1.3	Summary of Environmental License and Permit
Table 2.1	Air Quality Monitoring Locations
Table 2.2	Frequency and Parameters of Air Quality Monitoring
Table 2.3	Air Quality Monitoring Equipment
Table 2.4	Major Dust Source during Air Quality Monitoring
Table 2.5	Comparison of 1-hr TSP Monitoring Data with Predictions in EIA Report
Table 2.6	Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report
Table 3.1	Noise Monitoring Stations
Table 3.2	Frequency and Parameters of Noise Monitoring
Table 3.3	Noise Monitoring Equipment
Table 3.4	Other Noise Source Identified during Noise Monitoring
Table 3.5	Baseline Noise Level and Noise Limit Level for Monitoring Stations
Table 3.6	Maximum Predicted Mitigated Construction Noise Levels in EIA Report
Table 10.1	Landfill Gas Monitoring Equipment (not used)
Table 12.1	Observations and Recommendations of Site Audit
Table 14.1	Site Activities and the Key Environmental Issues in the next Reporting Period

LIST OF FIGURES

- Figure 1 Site Layout Plan
- Figure 1.2 Organizational Structure for Environmental Management
- Figure 2 Locations of Air Quality and Construction Noise Monitoring Stations

LIST OF APPENDICES

- Appendix A Action and Limit Levels
- Appendix B Copies of Calibration Certificates
- Appendix C Weather Information
- Appendix D Environmental Monitoring Schedules
- Appendix E 1-hour TSP Monitoring Results and Graphical Presentations
- Appendix F 24-hour TSP Monitoring Results and Graphical Presentations
- Appendix G Noise Monitoring Results and Graphical Presentations
- Appendix H Waste Generation in the Reporting Month
- Appendix I Site Audit Summary
- Appendix J Environmental Mitigation Implementation Schedule (EMIS)
- Appendix K Record of Landfill Gas Monitoring by Contractor (not used)
- Appendix L Event and Action Plans
- Appendix M Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution
- Appendix N Summary of Exceedance
- Appendix O Tentative Construction Programme

EXECUTIVE SUMMARY**Introduction**

1. This is the 54th Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. ED/2018/04 “Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron”, and Contract No. ED/2020/03 “Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works”. This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-458/2013/C and in accordance with the EM&A Manual (AEIAR-173/2013) during the reporting month of October 2024.

Summary of Main Works Undertaken and Key Measures Implemented

2. The main works undertaken during the reporting period are as follows:

Table I Summary of Key Construction Work in the Reporting Month

Contract No.	Project Title	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	<ul style="list-style-type: none"> • East Ventilation Building RC Structure • East Ventilation Building ABWF • East Ventilation Building E&M works • East Bound – Type C OHVD • East Bound – Tunnel excavation
ED/2020/03	Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	N/A

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

3. Implementation of the key mitigation measures during the reporting period are as follows:

Table II Summary of Key Mitigation Measures Implemented in the Reporting Month

Contract No. and Project Title	Key Mitigation Measures Implemented
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	<p><i>Construction Noise</i></p> <ul style="list-style-type: none"> • Construction activities were scheduled to minimize noise nuisance to the nearby sensitive receiver. • Use of Quality Powered Mechanical Equipment (QPME) on site. • Erected the noise barrier on site. <p><i>Air Quality</i></p> <ul style="list-style-type: none"> • Regularly watering on site to avoid dust generation.

	<p><i>Landscape and Visual</i></p> <ul style="list-style-type: none"> Tree protection zones were fenced off to protect the existing trees on site.
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works (1)	N/A

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

Environmental Monitoring Works

- Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- Summary of the non-compliance (exceedance) in the reporting month for the Project is tabulated in **Table I**.

Table III Non-compliance (exceedance) Record for the Project in the Reporting Month

Environmental Monitoring	No. of Non-compliance (Exceedance)		No. of Non-compliance (Exceedance) due to Construction Activities of this Project		Action Taken
	Action Level	Limit Level	Action Level	Limit Level	
Air Quality	0	0	0	0	N/A
Noise	0	0	0	0	N/A
Marine Water Quality	N/A	N/A	N/A	N/A	N/A
Groundwater Level Monitoring (Piezometer Monitoring)	N/A	N/A	N/A	N/A	N/A
Ecological	N/A	N/A	N/A	N/A	N/A
Cultural Heritage	N/A	N/A	N/A	N/A	N/A
Landfill Gas	N/A ⁽¹⁾	N/A	N/A ⁽¹⁾	N/A	N/A

Note: (1): No Action Level for Landfill Gas Monitoring.

Air Quality Monitoring

6. No Action/Limit Level exceedance for 1-hour TSP monitoring was recorded.
7. No Action Level exceedance and no Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

8. No Action Level exceedance was recorded due to documented complaint in the reporting month. The Summary of Documented Complaints in the Reporting Month is tabulated in **Table IV**.
9. No Limit Level exceedance for day time construction noise monitoring were recorded in the reporting month. Detail shall refer to **Appendix N**.

Water Quality Monitoring

10. Groundwater quality monitoring had been suspended since October 2019 upon the agreement by EPD. Further details should be founded at **Section 4.1**.
11. No marine water quality monitoring is required as no marine works will be conducted at the Cha Kwo Ling and Lam Tin areas for this project.
12. As the construction activity is approximately 120m away from the piezometer gate, no piezometer monitoring is required.

Waste Management

13. Wastes generated from this Project include inert construction and demolition (C&D) materials, and non-inert C&D materials. Details of waste management data is presented in **Appendix H**.

Ecological Monitoring

14. No coral monitoring is required as no marine works will be conducted at the Cha Kwo Ling and Lam Tin areas for this project.

Fisheries Impact Monitoring

15. No specific fisheries monitoring programme is required during the construction phase.

Monitoring on Cultural Heritage

16. As the construction works of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building are located more than 100m away from the Cha Kwo Ling Tin Hau temple, no monitoring on cultural heritage is required.

Landscape and Visual Monitoring and Audit

17. The implementation of landscape and visual mitigation measures was checked by a registered landscape architect. Recommended follow-up actions have been discharged by the Contractor. Details of the audit findings and implementation status are presented in **Section 12**.

Landfill Gas Monitoring

18. Monitoring of landfill gases was commenced in December 2016. Since no excavation activity for this Project was carried out within the Sai Tso Wan Landfill Consultation Zone in the reporting month, no landfill gas monitoring is required

Hazard to Life Monitoring

19. No environmental monitoring and audit are required as no hazard assessment was conducted.

Environmental Site Inspection

20. Joint weekly site inspections were conducted by representatives of the Contractor, Engineer and Environmental Team. Details of the audit findings and implementation status are presented in **Section 12**.

Key Information in the Reporting Month

21. Summary of key information in the reporting month is tabulated in **Table II**.

Table IV Summary of Complaints, Notifications of Summons and Successful Prosecutions in the Reporting Month

Event	Event Details		Action Taken	Status
	Number	Nature		
Complaints Received	1	Light and Air	Detail refers to App M	Closed
Notifications of any summons & prosecutions received	0	--	N/A	N/A

22. Summary of complaints received in the reporting month is tabulated in **Table III**.

Table V Summary of Complaints Details in Reporting Month

Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure
Light and dust nuisance generated from the barge at Portion Q1 (03 October 2024)	<ul style="list-style-type: none"> The night work operation is under valid permit, lighting at Portion Q1 area including all PME was turned off before 11pm. 	<ul style="list-style-type: none"> No action level and limit level of 24-hr TSP was recorded in early October 2024. In addition, the Contractor should still maintain good site practices, such as turn off unnecessary lighting and adjust the

Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure
	<ul style="list-style-type: none"> • Micro-Ringelmann Chart produced by the Marine Department was used to check the emission from the barge and no dark smoke is emitted when the barge is operating. • The complaint regarding light nuisance is considered as project related as lighting system was operation at night. The complaint regarding dark smoke emission is considered as non-project related as there were no direct evidence provided. 	<p>angle of lighting to reduce light nuisance to public.</p> <ul style="list-style-type: none"> • The Contractor is recommended to conduct regular maintenance for all Powered Mechanical Equipment to prevent dark smoke emission.

Reporting Changes

23. No reporting change is recorded in the reporting months.

Future Key Issues

24. The key works or activities will be anticipated in the next reporting period are as follows:

Table VI Summary Table for Site Activities in the next Reporting Period

Contract No. and Project Title	Site Activities (November 2024)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	<ul style="list-style-type: none"> • East Ventilation Building RC Structure • East Ventilation Building ABWF • East Ventilation Building E&M works • East Bound – Tunnel excavation • East Bound – Type C OHVD 	(A) / (B) / (C) / (D)
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	N/A	

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

- (A) Dust generation from haul road, stockpile of dusty materials, exposed site area, excavation works and rock breaking activities;
- (B) Noisy construction activity such as rock-breaking activities and piling works
- (C) Runoff from exposed slope or site area; and
- (D) Wastewater and runoff discharge from site.

1. INTRODUCTION

Background

- 1.1 In 2009, Civil Engineering and Development Department (CEDD) commissioned a Kai Tak Development (KTD) – Trunk Road T2 and Infrastructure at South Apron Investigation. The assignment covers the provision of the Trunk Road T2 and its connections with the Central Kowloon Route (CKR) at the north apron area and the Tseung Kwan O – Lam Tin Tunnel (TKOLTT) to the south in the Cha Kwo Ling area.
- 1.2 The Trunk Road T2 Project is one of the designated Projects under Schedule 2 of the EIAO proposed in the KTD. CEDD submitted the Project Profile (No. PP-379/2009) on 24 March 2009 for application for an EIA study brief for the Trunk Road T2 Project under the EIAO. Accordingly, an EIA Study Brief (ESB-203/2009) for the Trunk Road T2 Project was issued on 30 April 2009. The Environmental Impact Assessment (EIA) Report for the Trunk Road T2 Project was approved under the Environmental Impact Assessment Ordinance (EIAO) on 19 September 2013. The corresponding Environmental Permit (EP) was issued on 19 September 2013 (EP no.: EP-451/2013).
- 1.3 The Contract No. ED/2018/04 is the main contract of Trunk Road T2 (“T2 Main Works”) which comprises mainly the design and construction of a dual two-lane trunk road of approximately 3.0km long with about 2.7km of the trunk road in form of tunnel; ventilation and administration buildings, environmental protection and mitigation works and etc. Moreover, the Contract No. ED/2020/03 is the other contract under Trunk Road T2 Project which comprises mainly design and construction of the TCSS for this Project. The EM&A programme under the Contract ED/2018/04 and ED/2020/03 are governed by the two EPs (EP-451/2013 and EP-458/2013/C) and two EM&A Manuals (AEIAR-174/2013 and AEIAR-173/2013). The work areas of the T2 Main Works are shown in **Figure 1** and the works to be executed under these Contracts and corresponding EPs are summarized as follows:

Environmental Permit	Works Description
EP-451/2013 – Trunk Road T2	<u>ED/2018/04</u> <ul style="list-style-type: none"> ● Construction of highway and sub-sea tunnel connecting between Central Kowloon Route and Cha Kwo Ling Tunnel ● Western & Eastern Ventilation Buildings <u>ED/2020/03</u> Design and construction of TCSS for Trunk Road T2
EP-458/2013/C – Tseung Kwan O – Lam Tin Tunnel (TKOLTT) and Associated Works	<u>ED/2018/04</u> <ul style="list-style-type: none"> ● Construction of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building <u>ED/2020/03</u> <ul style="list-style-type: none"> ● Design and construction of TCSS for Trunk Road T2

Monitoring Works in Lam Tin under EP-458/2013/C

- 1.4 Under Agreement No. CE 59/2015 (EP) – Tseung Kwan O – Lam Tin Tunnel (TKOLLT) and Associated Works, the baseline monitoring works in Lam Tin under the EM&A Manual (AEIAR-173/2013) were conducted by the Environmental Team (ET) for the Agreement No. CE 59/2015 (EP) at the approved monitoring locations, namely AM1, AM2, AM3, AM4, AM4 (A) CM1, CM2, CM3, CM4 and CM5. Impact monitoring within the Lam Tin area shall be conducted by the ET of Contract No. ED/2018/04 upon cessation of Agreement No. CE 59/2015 (EP). The data obtained from the impact monitoring works completed by the ET of Agreement No. CE 59/2015 (EP) will be adopted in this report.
- 1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for “Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron” (hereinafter called the “Project”).

Purpose of the Report

- 1.6 This is the 54th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in October 2024.

Project Organizations

- 1.7 Different Parties with different levels of involvement in the Project organization include:
- Permit Holder – Civil Engineering and Development Department (CEDD)
 - Supervisor Representative – Hyder-Meinhardt Joint Venture (HMJV)
 - Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
 - Independent Environmental Checker (IEC) – Ramboll Hong Kong Limited (Ramboll)
 - Contractor – Bouygues Travaux Publics (BTP) (For ED/2018/04) & GTECH Services (Hong Kong) Limited (For ED/2020/03)
- 1.8 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1 Key Project Contacts

Party	Role	Contact Person	Phone No.
CEDD	Permit Holder	Mr. Wong Chi Wai, Tommy	3842 7111
HMJV	Supervisor Representative	Ms. Hazel Tang	2149 8524
Cinotech	Environmental Team	Mr. KS Lee (ETL)	2151 2091
		Ms. Karina Chan	2157 3880
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
BTP	Contractor (ED/2018/04)	Mr. Roy Leung	6628 2685
GTECH	Contractor (ED/2020/03)	Mr. Deacon Choi	6038 3568

- 1.9 The Organizational Structure for Environmental Management is shown in **Figure 1.2**.

Construction Activities undertaken during the Reporting Month

1.10 The major site activities undertaken in the reporting month included:

Table 1.2 Summary of Key Construction Work in the Reporting Month

Contract No.	Project Title	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	<ul style="list-style-type: none"> • East Ventilation Building RC Structure • East Ventilation Building ABWF • East Ventilation Building E&M works • East Bound – Type C OHVD • East Bound – Tunnel excavation
ED/2020/03	Trunk Road T2 – Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	N/A

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

Summary of EM&A Requirements

1.11 The EM&A programme requires construction noise, air quality monitoring and environmental site audit, etc. The EM&A requirements for each parameter 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 Report.

1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 12** of this report.

1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in October 2024.

Status of Environmental Licensing and Permitting

1.14 All permits/licenses obtained for the Project are summarized in **Table 1.3**.

Table 1.3 Summary of Environmental License and Permit

Permit / License No.	Valid Period		Status
	From	To	
Environmental Permit (EP)			
EP-451/2013	19 Sep 2013	N/A	Valid
EP-458/2013/C	20 Jan 2017	N/A	Valid
Notification pursuant to Air Pollution (Construction Dust) Regulation			
Ref. No.: 451120	20 Nov 2019	N/A	Valid
Billing Account for Construction Waste Disposal			
A/C No.: 7036016	09 Dec 2019	N/A	Valid
Construction Noise Permit			
CNP No. (For Portion T1): GW-RE0930-24	10 Aug 2024	09 Nov 2024	Valid
CNP No. (For Portion Q): GW-RE1005-24	01 Sep 2024	31 Dec 2024	Valid
CNP No. (For Portion U): GW-RE1117-24	01 Oct 2024	31 Mar 2025	Valid
Wastewater Discharge License			
WT00036699-2020	14 Jan 2021	31 Jan 2026	Valid
Chemical Waste Producer License			
WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid

2. AIR QUALITY

Monitoring Requirement

- 2.1 According to Section 2.2.4 of the EM&A Manual (AEIAR-173/2013), 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring was conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 1-hour and 24-hour TSP monitoring. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

- 2.2 Five designated monitoring stations were selected for air quality monitoring programme. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Table 2.1 Air Quality Monitoring Locations

Monitoring Stations	Location	Location of Measurement
AM1	Tin Hau Temple	Ground Level
AM2	Sai Tso Wan Recreation Ground	Ground Level
AM3	Yau Lai Estate Bik Lai House	Rooftop (41/F)
AM4 ⁽¹⁾	Sitting-out Area at Cha Kwo Ling Village	Ground Level
AM4(B) ^{(2) (*) (**)}	Flat 103 Cha Kwo Ling Village	Ground Level

Remarks:

(1) For 1-hour TSP monitoring;

(2) For 24-hour TSP monitoring

(*) Air quality monitoring at designated station AM4 (24-hr TSP) was rejected by the premise owners.

Therefore, baseline and impact air quality monitoring works were carried out at alternative air quality monitoring stations AM4 (A) (24-hr TSP only)

(**) AM4(A) is not available for conducting monitoring due to the demolition of administrative office.

Monitoring Parameters and Frequency

- 2.3 **Table 2.2** summarizes the monitoring parameters, monitoring period and frequencies of impact air quality monitoring. The monitoring schedule is shown in **Appendix D**.

Table 2.2 Frequency and Parameters of Air Quality Monitoring

Monitoring Stations	Parameter	Period	Frequency
AM1, AM2, AM3, AM4	1-hour TSP	0700 – 1900	3 times per 6 days
AM1, AM2, AM3, AM4(B)	24-hour TSP	24 hours	Once every 6 days

Monitoring Equipment

- 2.4 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual (AEIAR-173/2013), Section 2.3.1, were used to carry out 24-hour TSP monitoring. Direct reading dust meter were also used to measure 1-hour average TSP levels. The 1-hour sampling was determined by HVS to check the validity and accuracy of the results measured by direct reading method.
- 2.5 Wind data monitoring equipment was set at rooftop (about 41/F) of Yau Lai Estate Bik Lai House for logging wind speed and wind direction such that the wind sensors are clear of obstructions or turbulence caused by building. The wind data monitoring equipment is re-calibrated at least once every six months and the wind directions are divided into 16 sectors of 22.5 degrees each. The location is shown in **Figure 2**. This weather information for the reporting month is summarized in **Appendix C**.
- 2.6 **Table 2.3** summarizes the equipment used for air quality monitoring by the ET for Contract No. CE 59/2015 (EP). Copies of calibration certificates are attached in **Appendix B**.

Table 2.3 Air Quality Monitoring Equipment

Equipment	Model	Quantity
1-hour TSP Dust Meter	Sibata Model No. LD-5R (Serial No.: 972777, 972778, 972780, 8Y2374, 8Y2373, 972781)	6
HVS Sampler	GMW model: GS2310 (Serial No.: 1287, 10379, 10599)	3
	TE 5170 (Serial No.: 1956)	1
Calibrator	TISCH Model: TE-5025A (Serial No.: 3864)	1
Wind Anemometer	Davis Weather Monitor II, Model no. 7440 (Serial No.: MC01010A44)	1

Monitoring Methodology***1-hour TSP Monitoring***Measuring Procedures

- 2.7 The measuring procedures of the 1-hour dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

(Sibata Model No.: LD-5R)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
- Push the knob at MEASURE position.

- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

Maintenance/Calibration

2.8 The following maintenance/calibration is required for the 1-hour dust meter:

- Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

24-hour TSP Monitoring

Instrumentation

2.9 High volume samplers (HVS) (TISCH Model: TE-5170 and GMW Model: GS2310) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

2.10 The positioning of the HVS samplers are as follows:

- A horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
- No two samplers shall be placed less than 2 meters apart;
- The distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
- A minimum of 2 metres of separation from walls, parapets and penthouses is required for rooftop samplers;
- A minimum of 2 metres of separation from any supporting structure, measured horizontally is required;
- No furnace or incinerator flue is nearby;
- Airflow around the sampler is unrestricted;
- The sampler is more than 20 metres from the dripline;
- Any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;
- Permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
- A secured supply of electricity is needed to operate the samplers.

Operating/analytical procedures for the operation of HVS

2.11 Operating/analytical procedures for the air quality monitoring are highlighted as follows:

- Prior to the commencement of the dust sampling, the flow rate of the high-volume sampler was properly set (between 0.6 m³/min. and 1.7 m³/min.) in accordance with the EM&A manual (AEIAR-173/2013). The flow rate shall be indicated on the flow rate chart.
- For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3µm diameter were used.
- The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminium strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (ALS Technichem (HK) Pty Ltd.) for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

2.12 The following maintenance/calibration is required for the HVS:

- The high-volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.

High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

Results and Observations

2.13 The impact monitoring works for air quality monitoring locations AM1, AM2, AM3 and AM4 are completed by the ET of Agreement No. CE 59/2015 (EP), and the data will be adopted in this report. As the proposal for relocation approved, the monitoring at AM4(A) will be conducted at AM4(B). For the time being, as the station CKL2 for the 24 hr TSP monitoring, carried out under EM&A works for Trunk Road T2 Project (EP- 451/2013), is located in close proximity to AM4(B); the results from CKL2 are adopted as reference for the 24 TSP monitoring at AM4(B), which has similar environment when compared with that for CKL2. The location of monitoring station CKL2 is shown in **Figure 2**.

- 2.14 The impact air quality monitoring was conducted at all five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix D**.
- 2.15 No Action Level exceedance was recorded for 24-hour TSP monitoring in the reporting month and No Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.
- 2.16 No Action/Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting month.
- 2.17 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E** and **Appendix F** respectively.
- 2.18 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

Table 2.4 Major Dust Source during Air Quality Monitoring

Monitoring Stations	Major Dust Source
AM1 – Tin Hau Temple	Road Traffic at Cha Kwo Ling Road, non-project related influence and the construction activity from other construction site (i.e underground utility work in TKOLTT project)
AM2 – Sai Tso Wan Recreation Ground	Road Traffic along Sin Fat Road
AM3 – Yau Lai Estate Bik Lai House	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project related influence and the construction activity from other construction site (i.e road paving work in TKOLTT project)
AM4 - Sitting-out Area at Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road
AM4(B) (***) - Flat 103 Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road (*)

(*): Field observation observed at CKL2 during monitoring is presented. Detail refers to S2.13.

(***) AM4(A) is not available for conducting monitoring due to the demolition of administrative office.

Comparison of EM&A Result with EIA Prediction

- 2.19 The air monitoring data was compared with the predictions (with the assessment height of 1.5 mAG) in Table 3.17 of EIA Report, AEIAR-173/2013 (as approved in 2013) as summarised in **Table 2.5** and **Table 2.6**.

Table 2.5 Comparison of 1-hr TSP Monitoring Data with Predictions in EIA Report

Monitoring Stations	ASR ID	Predicted Maximum 1-hr TSP Concentration in EIA Report (AEIAR-173/2013), $\mu\text{g}/\text{m}^3$	Maximum 1-hr TSP Concentration in the Reporting Month (October 2024), $\mu\text{g}/\text{m}^3$
AM1 – Tin Hau Temple	CL1	707	65.6
AM2 – Sai Tso Wan Recreation Ground	CL6	266	68.4
AM3 – Yau Lai Estate Bik Lai House	CL9	507	67.2
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	72.2

Table 2.6 Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR-173/2013), $\mu\text{g}/\text{m}^3$	Maximum 24-hr TSP Concentration in the Reporting Month (October 2024), $\mu\text{g}/\text{m}^3$
AM1 – Tin Hau Temple	CL1	199	57.0
AM2 – Sai Tso Wan Recreation Ground	CL6	109	47.1
AM3 – Yau Lai Estate Bik Lai House	CL9	123	26.7
AM4(B) – Flat 103 Cha Kwo Ling Village (*)	N/A ⁽¹⁾	N/A ⁽¹⁾	133.4 ^(**)

Remarks:

(1) No 24-hr TSP concentration was predicted in EIA Report (AEIAR-173/2013)

(*) Air quality monitoring at designated station AM4 (24-hr TSP) was rejected by the premise owners. Therefore, baseline and impact air quality monitoring works were carried out at alternative air quality monitoring stations AM4 (B) (24-hr TSP only)

(**): Monitoring results at CKL2 is presented. Detail refers to S2.13

2.20 In the reporting month, the 1-hour TSP concentrations at AM1, AM2, AM3 and AM4 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). No Action/Limit level exceedance was recorded in the reporting period.

2.21 In the reporting month, the 24-hour TSP concentrations at AM1, AM2 and AM3 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). No Action Level exceedance was recorded for 24-hour TSP monitoring in the reporting month and no Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

3. NOISE

Monitoring Requirements

- 3.1 According to Section 3.2.1 of the EM&A Manual (AEIAR-173/2013), construction noise monitoring was conducted 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 conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

- 3.2 Noise monitoring was conducted at five designated monitoring stations, namely CM1, CM2, CM3, CM4 and CM5 in the reporting period. **Table 3.1** and **Figure 2** show the locations of these stations.

Table 3.1 Noise Monitoring Stations

Monitoring Stations	Location	Location of Measurement
CM1	Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	Rooftop (41/F)
CM2	Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	Rooftop (41/F)
CM3	Block S, Yau Lai Estate Phase 5, Yau Tong	Rooftop (40/F)
CM4	Tin Hau Temple, Cha Kwo Ling	Ground Level
CM5	CCC Kei Faat Primary School, Yau Tong	Rooftop (6/F)

Monitoring Parameters, Frequency and Duration

- 3.3 **Table 3.2** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Table 3.2 Frequency and Parameters of Noise Monitoring

Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
CM1	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L ₁₀ (30 min.) dB(A)	Façade Measurement
CM2					Façade Measurement
CM3				L ₉₀ (30 min.) dB(A)	Façade Measurement
CM4				L _{eq} (30 min.) dB(A)	Façade Measurement
CM5					Façade Measurement

Monitoring Equipment

- 3.4 Integrating Sound Level Meter was 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 (L_{eq}) and percentile sound pressure level (L_x) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.3** summarizes the noise monitoring equipment being used by the ET for Agreement No. CE 59/2015 (EP) within the reporting period. Copies of calibration certificates are attached in **Appendix B**.

Table 3.3 Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308 (Serial No.: 580287, 580156, 570183) SVAN 957 (Serial No.: 21455)	4
Calibrator	AWA6021A (Serial No.: 1023253, 1023064)	2

Monitoring Methodology and QA/QC Procedure

- 3.5 The monitoring procedures are as follows:
- The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
 - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for 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: 30 minutes
 - 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.
 - The wind speed was frequently checked with the portable wind meter.
 - At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
 - Noise monitoring would be 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. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

- 3.6 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.

- 3.8 Immediately prior to and following each noise measurement the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements were accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

- 3.9 The data obtained from the impact monitoring works completed by the ET of Agreement No. CE 59/2015 (EP) will be adopted in this report.
- 3.10 No Action Level exceedance was recorded due to the documented complaint in the reporting month.
- 3.11 No Limit Level exceedance was recorded for day-time construction noise monitoring in the reporting month.
- 3.12 Noise monitoring results and graphical presentations are shown in **Appendix G**.
- 3.13 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major noise sources identified at the noise monitoring stations are shown in **Table 3.4**.

Table 3.4 Other Noise Source Identified during Noise Monitoring

Monitoring Stations	Major Noise Source
CM1	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project related construction activities (i.e road paving work in TKOLTT project)
CM2	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project related construction activities (i.e road paving work in TKOLTT project)
CM3	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza non-project related construction activities (i.e road paving work in TKOLTT project)
CM4	Road Traffic at Cha Kwo Ling Road, non-project related construction activities (i.e underground utility work in TKOLTT project)
CM5	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, Road Traffic at Yau Tong Road

Table 3.5 Baseline Noise Level and Noise Limit Level for Monitoring Stations

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
CM1	65.5	75
CM2	63.6	
CM3	65.6	
CM4	62.0	
CM5	68.2	70*

(*) Noise Limit Level is 65 dB(A) during school examination periods.

Comparison of EM&A Result with EIA Prediction

3.14 The noise monitoring data was compared with the predictions in Table 4.15 of EIA Report (AEIAR-173/2013) as summarised in **Table 3.6**.

Table 3.6 Maximum Predicted Mitigated Construction Noise Levels in EIA Report

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 173/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (October 2024), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	66
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	67
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	65
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	61
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	68

3.15 The results at CM1, CM2, CM3, CM4 and CM5 were lower than the maximum predicted mitigated construction noise level in EIA Report, AEIAR-173/2013 (as approved in 2013). No Limit level exceedance was recorded in the reporting period.

4. WATER QUALITY

Monitoring Requirement

Groundwater Quality

- 4.1 The existing groundwater quality monitoring programme has been suspended as the monitoring results had been deemed non-representative of the impact from the project justified by two major factors: (1) influence on the monitoring results from non-project related factors, such as anthropogenic activities and natural phenomenon; and (2) large separation between the monitoring stations and works area. In addition, as no alternative locations for the groundwater quality monitoring were available, the groundwater quality monitoring has been suspended since October 2019 upon the agreement by EPD.

Marine Water Quality

- 4.2 According to Section 4.4.3 of EM&A Manual (AEIAR-173/2013), marine water quality impact monitoring stations is carried out during marine construction for TKOLTT reclamation. Since the construction of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building does not involve reclamation, the marine water quality monitoring programme stated in Section 4.4 of the EM&A Manual (AEIAR-173/2013) is therefore not applicable to Contract No. ED/2018/04.

Groundwater Level Monitoring (Piezometer Monitoring)

- 4.3 According to Section 4.1.2 of EM&A Manual (AEIAR-173/2013), daily piezometer monitoring will be carried out on a daily basis when any tunnel construction activities are carried out within +/- 50m of the piezometer gate in plan. As the construction works of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building is approximately 120m away from the piezometer gate in plan, the piezometer monitoring programme stated in Section 4.2 of the EM&A Manual (AEIAR-173/2013) is therefore not applicable to Contract No. ED/2018/04.

5. WASTE MANGEMENT

- 5.1 According to Section 5.1.2 of the EM&A Manual (AEIAR-173/2013), Waste materials generated during construction activities, such as construction and demolition (C&D) materials and general refuse, are recommended to be audited at regular intervals (at least quarterly) to ensure that proper storage, transportation and disposal practices are being implemented by the Contractor. To fulfil this requirement, site audits are carried out on a weekly basis. The summaries of site audits are attached in **Appendix I**.
- 5.2 With reference to relevant handling records of this Project, the quantities of different types of waste generated in the reporting month are summarised and presented in **Appendix H**.

6. ECOLOGY

Post-Translocation Coral Monitoring

- 6.1 Post-translocation monitoring survey is recommended in Section 6.2.5 of the EM&A Manual (AEIAR-173/2013), to audit the success of coral translocation. Since the construction of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building does not involve any marine works in the concerned area mentioned in Section 6.1.2 of the EM&A Manual (AEIAR-173/2013), the post-translocation monitoring survey stated in Section 6.2.5 of the EM&A Manual (AEIAR-173/2013) is therefore not applicable to Contract No. ED/2018/04.

7. FISHERIES

- 7.1 According to Section 7.1.3 of EM&A Manual (AEIAR-173/2013), no specific fisheries monitoring programme is required during the construction phase.
- 7.2 The implementation of the mitigation measures stated in the Water Quality Impact Assessment (Refer to Section 5 of EIA Report (AEIAR-173/2013)) will be audited as part of the EM&A procedures during the construction period. The summaries of site audits are attached in **Appendix I**.

8. CULTURAL HERITAGE

- 8.1 According to Condition 3.7 of EP-458/2013/C and Section 8.2.1 of the EM&A Manual (AEIAR-173/2013), monitoring of vibration impacts was conducted when the construction works are less than 100m from the Built Heritage in close proximity of the worksite, namely the Cha Kwo Ling Tin Hau temple. Tilting and settlement monitoring should be applied on the Cha Kwo Ling Tin Hau Temple.
- 8.2 As the construction works of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building are located more than 100m away from the Cha Kwo Ling Tin Hau temple, the vibration impact monitoring stated in Section 8.3.1 of the EM&A Manual (AEIAR-173/2013) is not applicable to Contract No. ED/2018/04.

Mitigation Measures for Cultural Heritage

- 8.3 According to Condition 3.6 of EP-458/2013/C, to prevent damage to Cha Kwo Ling Tin Hau Temple and its Fung Shui rocks (Child-given rocks) during the construction phase, a temporarily fenced-off buffer zone (Rocks buffer zone is 5 m from the edge of Rocks and 15m from the edge of Rocks alter) with allowance for public access (minimum 1 m) around the temple and the Fung Shui rocks shall be provided. The open yard in front of the temple should be kept as usual for annual Tin Hau festival.
- 8.4 As there is a large buffer distance from the current works to Cha Kwo Ling Tin Hau Temple and the Fung Shui rocks (Child-given rocks), the temporarily fenced-off rocks buffer zone and from the edge of Rocks alter is not required. The fenced-off rocks buffer zone would be implemented when there are construction activities in vicinity of the cultural heritage.

9. LANDSCAPE AND VISUAL IMPACT

- 9.1 According to Section 9.3 of the EM&A Manual (AEIAR-173/2013), landscape and visual mitigation measures during the construction phase shall be checked to ensure that they are fully realized and implemented on site.
- 9.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures listed in “Environmental Mitigation Implementation Schedule (EMIS)” (shown in **Appendix J**).
- 9.3 The implementation of landscape and visual mitigation measures was checked by a registered landscape architect. No non-compliance of the landscape and visual impact was recorded in the reporting month. Details of the audit findings and implementation status are presented in **Appendix I**.

10. LANDFILL GAS MONITORING

Monitoring Requirement

- 10.1 In accordance with Section 10.1.1 of the EM&A Manual (AEIAR-173/2013), monitoring of landfill gas is required for construction works within the Sai Tso Wan Landfill Consultation Zone during the construction phase. Since no excavation activity for this Project was carried out within the Sai Tso Wan Landfill Consultation Zone in the reporting month, no landfill gas monitoring is required.

11. HAZARD TO LIFE

- 11.1 According to Section 11.1.1 of EM&A Manual (AEIAR-173/2013), as no overnight storage of explosive on site is required for the construction of the Project, the hazard assessment is deemed not necessary. Thus, environmental monitoring and audit is not required.

12. ENVIRONMENTAL AUDIT**Site Audits**

- 12.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 12.2 Site audits were conducted on 03, 10, 17, 24 & 31 October 2024 in the reporting month. Site inspection of the IEC was conducted on 17 October 2024. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

- 12.3 According to Environmental Permits, the approved EIA Reports (Register No.: AEIAR-174/2013 and AEIAR-173/2013), and the EM&A Manuals of the Project (AEIAR-174/2013 and AEIAR-173/2013), the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix J**.
- 12.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 12.1**. Refer to **Appendix I** for the site inspection summary reports in the reporting month.

Table 12.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
<i>Air Quality</i>	26 September 2024	The Contractor is reminded to cover the cement bags which is more than 20 bags per stack.	The stack of cement bags has been removed.
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A
<i>Water Quality</i>	N/A	There was no observation in the reporting period.	N/A
<i>Ecology</i>	N/A	There was no observation in the reporting period.	N/A
<i>Landscape and Visual</i>	N/A	There was no observation in the reporting period.	N/A
<i>Waste/Chemical Management</i>	03 October 2024	The Contractor is reminded to remove the empty chemical containers in EVB to keep the site tidy.	The empty chemical containers inside EVB have been removed.
<i>Permits /Licences</i>	N/A	There was no observation in the reporting period.	N/A

Implementation Status of Event and Action Plans

12.5 The Event and Action Plans for air quality and construction noise monitoring, and the Limit Levels and Action Plan for landfill gas monitoring are presented in **Appendix L**.

Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP monitoring was recorded in the reporting month.
- No Action Level exceedance for 24-hour TSP monitoring was recorded in the reporting month and no Limit Level exceedance for 24-hour TSP monitoring was recorded in the reporting month.

Construction Noise Monitoring

- No Action Level exceedance was recorded due to the documented complaint in the reporting month.
- No Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

13. ENVIRONMENTAL NON-COMFORMANCE**Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution**

13.1 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix M**.

Summary of Exceedance

13.2 The summary of exceedance record in the reporting month is shown in **Appendix N**.

14. FUTURE KEY ISSUES

14.1 Tentative construction programmes for the next three months are provided in **Appendix O**.

14.2 Major site activities undertaken for the coming months are summarized as follows:

Table 14.1 Site Activities and the Key Environmental Issues in the next Reporting Period

Contract No. and Project Title	Site Activities (November 2024)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	1) East Ventilation Building RC Structure 2) East Ventilation Building ABWF 3) East Ventilation Building E&M works 4) East Bound – Tunnel excavation 5) East Bound – Type C OHVD	<ul style="list-style-type: none"> • Wheel washing bay at site exits; • Temporary noise barriers for PMEs; • Sedimentation tank for settling muddy water; and • Make sure open stockpiles are covered during rainstorm.

Contract No. and Project Title	Site Activities (November 2024)	Key Environmental Issues
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	N/A	

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

Monitoring Schedule

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

15. CONCLUSION AND RECOMMENDATION

Conclusions

- 15.1 This is the 54th Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-173/2013) and the requirement under EP.

Air Quality Monitoring

- 15.2 No Action/Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting month.
- 15.3 No Action Level exceedance for 24-hour TSP monitoring was recorded in the reporting month and no Limit Level exceedance for 24-hour TSP monitoring was recorded in the reporting month.

Construction Noise Monitoring

- 15.4 No Action Level exceedance was recorded due to documented complaint in the reporting month.
- 15.5 No Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

Site Audit

- 15.6 Five (5) ET joint weekly environmental site inspections were conducted for the Contract No. ED/2018/04 in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

- 15.7 One (1) environmental complaint was received in the reporting period. No notifications of summons and successful prosecutions were received in the reporting month.

Recommendations

- 15.8 According to the environmental audit performed in the reporting month, the following recommendations were made:

ED/2018/04

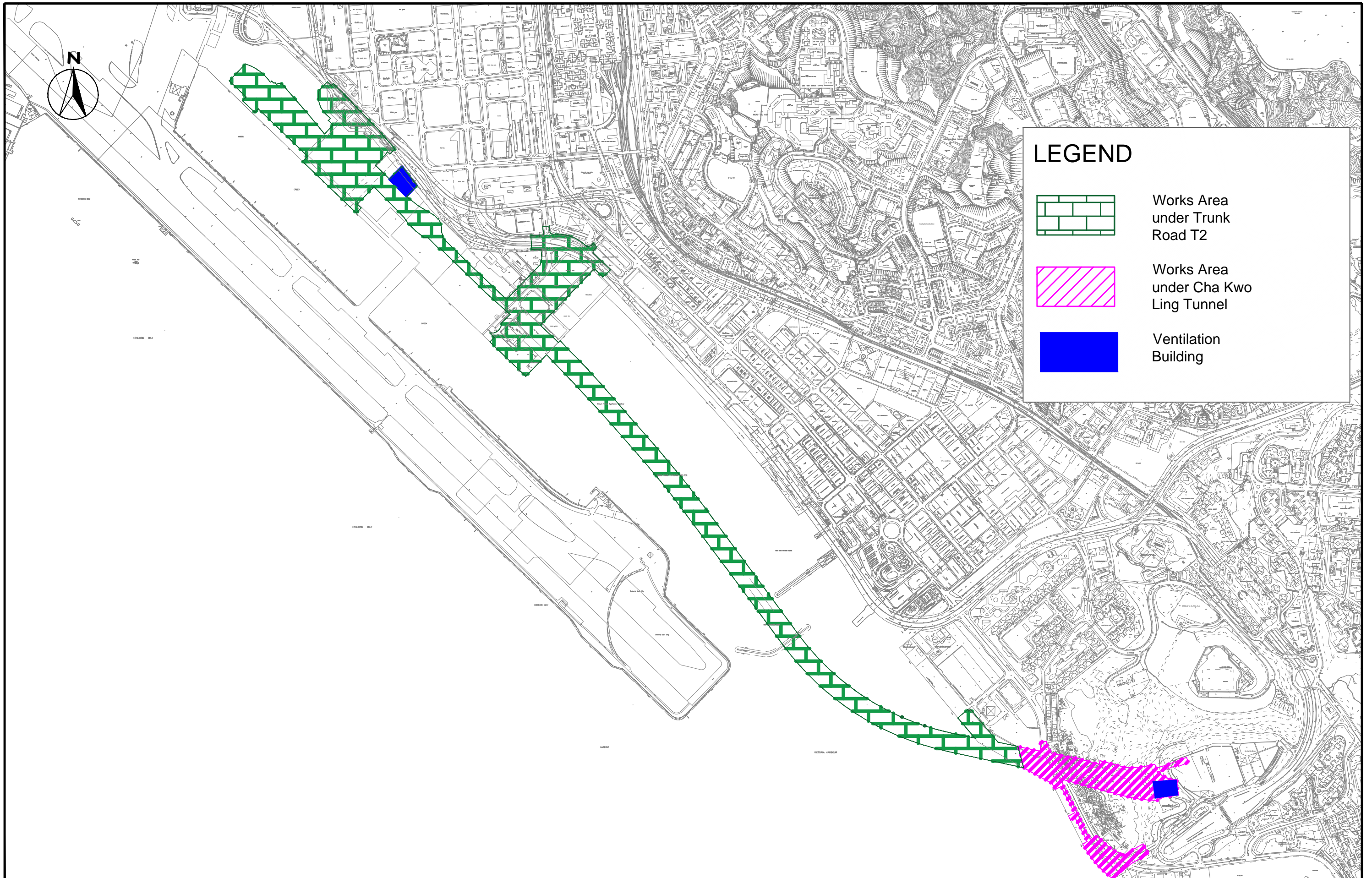
Air Quality

- Cement bags with more 20 bags per stack should be covered by impervious sheeting.


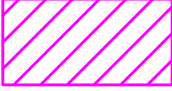

Waste / Chemical Management

- Construction waste or used chemical containers should be remove timely to keep the site tidy.

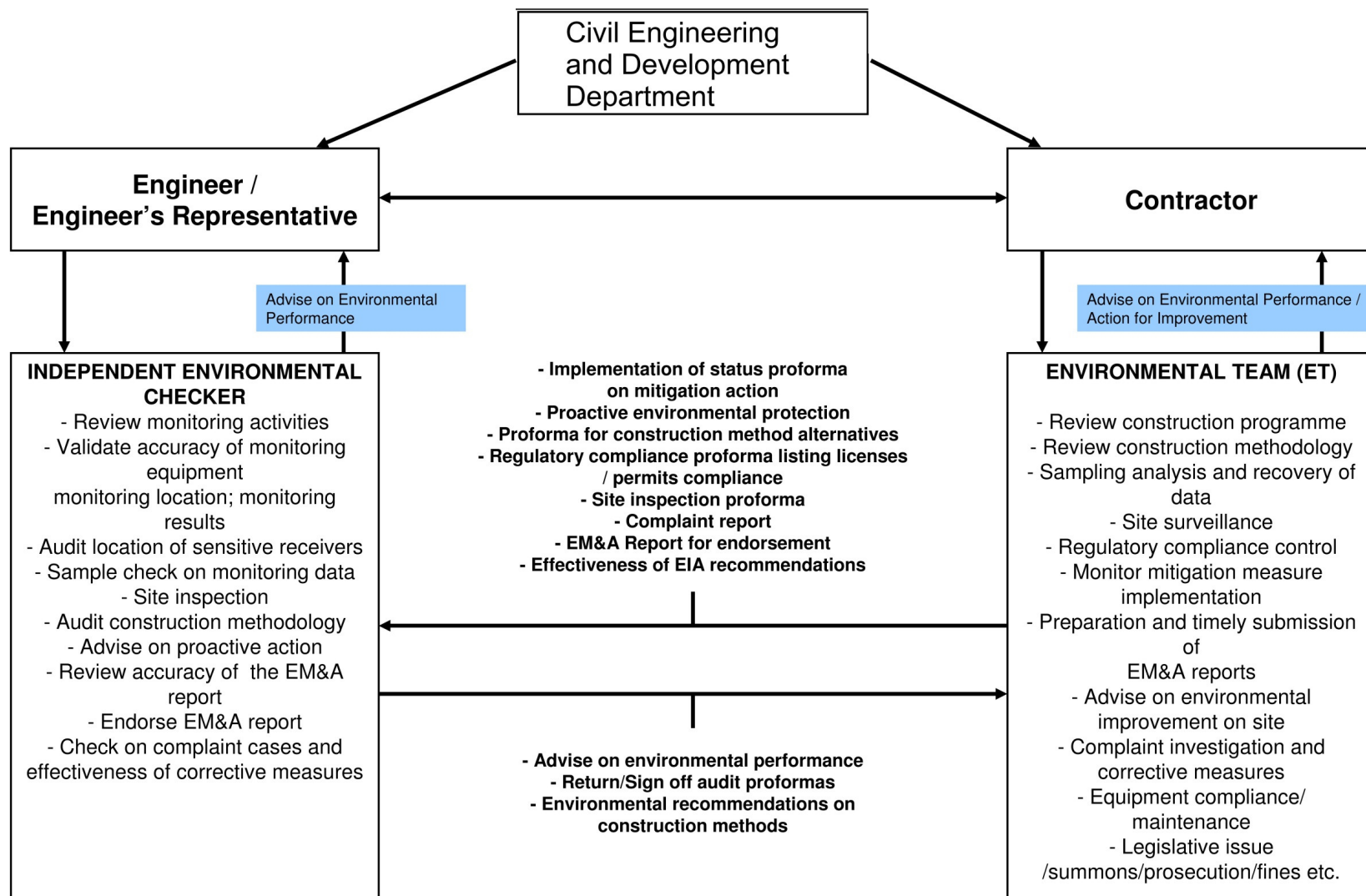
FIGURES



LEGEND

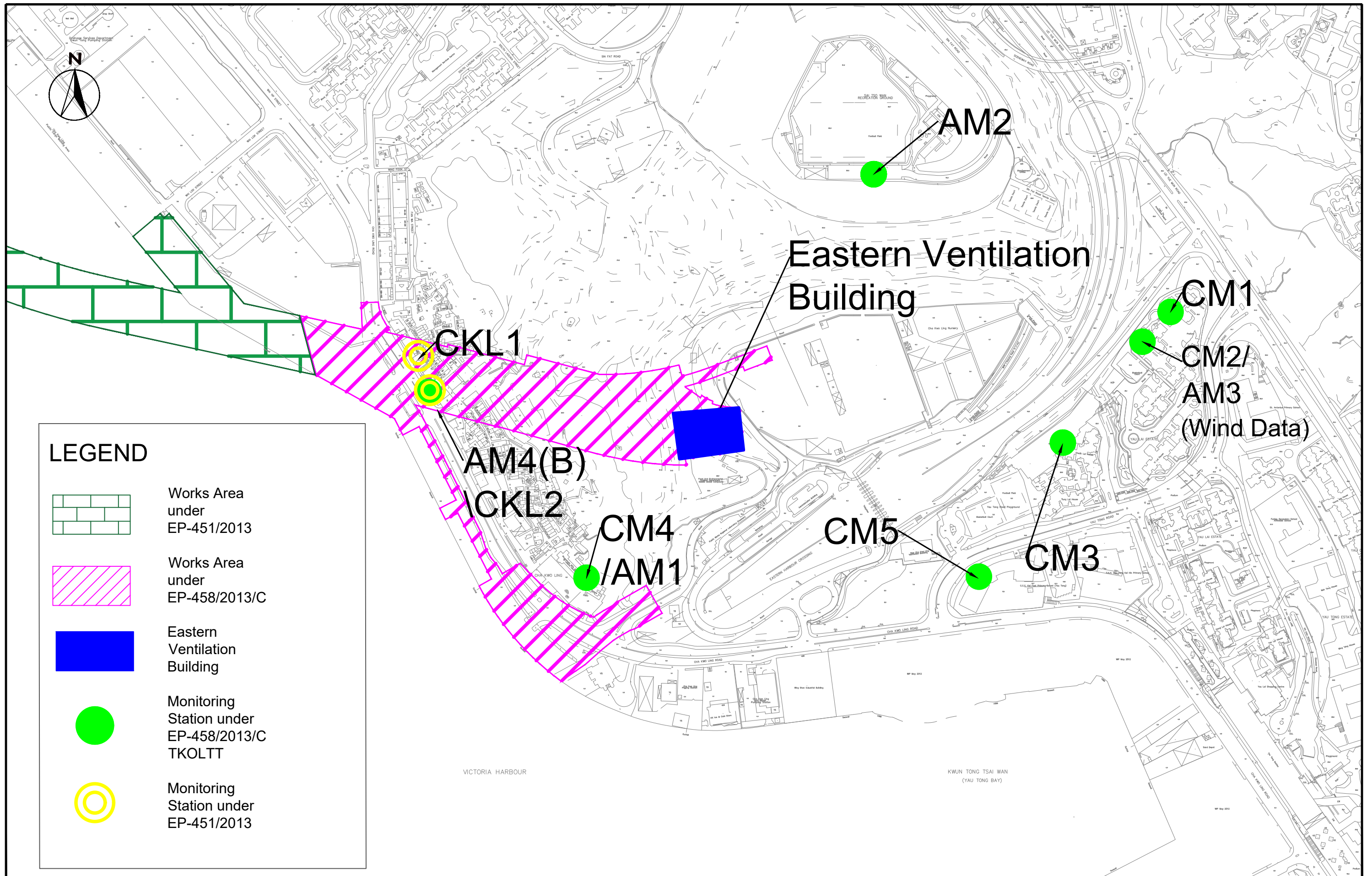
-  Works Area under Trunk Road T2
-  Works Area under Cha Kwo Ling Tunnel
-  Ventilation Building

SCALE	1:10000@A3	DATE	March 20
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No.	Fig 1
		REV	-

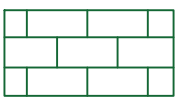
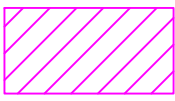





PLOT.DWG: K:\91164 Trunk Road T2\Cad Admin\A3_colour.plt
PRINTED BY: JACOB
1/17/2013 10:53:36 AM

Drawing title			Original Size	A3	Scale	N.T.S	Date	18/JAN/2013
PROJECT ORGANISATION AND LINES OF COMMUNICATION			© Copyright reserved		Drawing No.		FIGURE 1.2	
Rev.	Description	Date				Rev.		-



LEGEND

-  Works Area under EP-451/2013
-  Works Area under EP-458/2013/C
-  Eastern Ventilation Building
-  Monitoring Station under EP-458/2013/C TKOLTT
-  Monitoring Station under EP-451/2013

SCALE	1:4000@A3	DATE	Jul 22
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No.	Fig 2b
		REV	-

**APPENDIX A
ACTION AND LIMIT LEVELS**

APPENDIX A – Action and Limit Levels

Air Quality

1-hr TSP

Monitoring Stations	Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM1	Tin Hau Temple	275	500
AM2	Sai Tso Wan Recreation Ground	273	
AM3	Yau Lai Estate Bik Lai House	271	
AM4	Sitting-out Area at Cha Kwo Ling Village	278	

24-hr TSP

Monitoring Stations	Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM1	Tin Hau Temple	173	260
AM2	Sai Tso Wan Recreation Ground	192	
AM3	Yau Lai Estate Bik Lai House	167	
AM4(B)	Flat 103 Cha Kwo Ling Village	210	

Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) ⁽¹⁾

¹ 70 dB(A) for schools and 65 dB(A) for schools during examination period.

² Acceptable Noise Levels for Area Sensitivity Rating of A/B/C

³ If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

Landfill Gas Monitoring

Parameter	Limit Level
Oxygen	<19%
	<18%
Methane	>10% LEL (i.e. > 0.5% by volume)
	>20% LEL (i.e. > 1% by volume)
Carbon Dioxide	>0.5%
	>1.5%

**APPENDIX B
COPIES OF CALIBRATION
CERTIFICATES**

Certificate of Calibration - Wind Monitoring Station

Description: Yau Lai Estate, Bik Lai House
 Manufacturer: Davis Instruments
 Model No.: Davis7440
 Serial No.: MC01010A44
 Equipment No.: SA-03-04
 Date of Calibration: 17-Aug-2024
 Next Due Date: 17-Feb-2025

1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	$D = V1 - V2$
0.0	0.0	0.0
1.5	1.6	-0.1
2.5	2.3	0.2
4.0	4.0	0.0

2. Performance check of Wind Direction

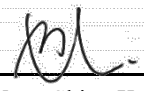
Wind Direction (°)		Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	$D = W1 - W2$
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

Test Specification:

1. Performance Wind Speed Test - The wind meter was on-site calibrated against the anemometer

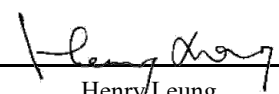
2. Performance Wind Direction Test - The wind meter was on-site calibrated against the marine compass at four direction

Calibrated by:



 Wong Shing Kwai

Approved by:



 Henry Leung

Certificate of Calibration

Calibration Certification Information			
Cal. Date: January 15, 2024	Rootsmeter S/N: 438320	Ta: 294	°K
Operator: Jim Tisch		Pa: 755.4	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: 3864		

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

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

Calculations			
Vstd=	$\Delta Vol \left(\frac{Pa - \Delta P}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)$	Va=	$\Delta Vol \left(\frac{Pa - \Delta P}{Pa} \right)$
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=	$1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$

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

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/05/0049

Project No. AM1 - Tin Hau Temple
 Date: 14-Aug-24 Next Due Date: 14-Oct-24 Operator: SK
 Equipment No.: A-01-05 Model No.: GS2310 Serial No. 10599

Ambient Condition			
Temperature, Ta (K)	302.2	Pressure, Pa (mmHg)	754.8

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05976	Intercept, bc	-0.05018
Last Calibration Date:	15-Jan-24	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	14-Jan-25	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	13.2	3.60	61.01	8.7	2.92
2	10.4	3.19	54.24	6.4	2.50
3	7.5	2.71	46.19	4.4	2.08
4	5.3	2.28	38.96	2.8	1.66
5	3.1	1.74	30.00	1.5	1.21

By Linear Regression of Y on X

Slope, $m_w =$ 0.0550 Intercept, $b_w =$ -0.4631
 Correlation coefficient* = 0.9994

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation


From the TSP Field Calibration Curve, take Qstd = 43 CFM

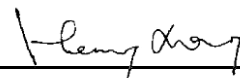
From the Regression Equation, the "Y" value according to

$$m_w \times Qstd + b_w = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; $W = (m_w \times Qstd + b_w)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.70

Remarks: _____

Conducted by: Wong Shing Kwai Signature:  Date: 14-Aug-24

Checked by: Henry Leung Signature:  Date: 14-Aug-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/05/0050

Project No. AM1 - Tin Hau Temple
 Date: 14-Oct-24 Next Due Date: 14-Dec-24 Operator: SK
 Equipment No.: A-01-05 Model No.: GS2310 Serial No. 10599

Ambient Condition			
Temperature, Ta (K)	301	Pressure, Pa (mmHg)	760.2

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05976	Intercept, bc	-0.05018
Last Calibration Date:	15-Jan-24	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			
Next Calibration Date:	14-Jan-25				

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	13.1	3.60	61.11	8.6	2.92
2	10.3	3.19	54.28	6.6	2.56
3	7.4	2.71	46.14	4.4	2.09
4	5.2	2.27	38.81	2.7	1.64
5	3.0	1.72	29.68	1.5	1.22

By Linear Regression of Y on X

Slope, mw = 0.0551 Intercept, bw : -0.4506
 Correlation coefficient* = 0.9989

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.71

Remarks: _____

Conducted by: Wong Shing Kwai Signature: Date: 14-Oct-24

Checked by: Henry Leung Signature: Date: 14-Oct-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/08/0049

Project No. AM2 - Sai Tso Wan Recreation Ground

Date: 14-Aug-24 Next Due Date: 14-Oct-24 Operator: SK

Equipment No.: A-01-08 Model No.: GS2310 Serial No. 1287

Ambient Condition			
Temperature, Ta (K)	302.2	Pressure, Pa (mmHg)	754.8

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05976	Intercept, bc	-0.05018
Last Calibration Date:	15-Jan-24	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	14-Jan-25	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	13.3	3.61	61.23	8.4	2.87
2	10.2	3.16	53.73	6.2	2.46
3	7.5	2.71	46.19	4.3	2.05
4	5.2	2.26	38.60	2.7	1.63
5	3.0	1.71	29.52	1.5	1.21

By Linear Regression of Y on X

Slope, mw = 0.0528 Intercept, bw : -0.3750

Correlation coefficient* = 0.9993

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation	
From the TSP Field Calibration Curve, take Qstd = 43 CFM	
From the Regression Equation, the "Y" value according to	
$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$	
Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =	<u>3.66</u>

Remarks: _____

Conducted by: Wong Shing Kwai Signature: Date: 14-Aug-24

Checked by: Henry Leung Signature: Date: 14-Aug-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/08/0050

Project No. AM2 - Sai Tso Wan Recreation Ground

Date: 14-Oct-24 Next Due Date: 14-Dec-24 Operator: SK

Equipment No.: A-01-08 Model No.: GS2310 Serial No. 1287

Ambient Condition			
Temperature, Ta (K)	301	Pressure, Pa (mmHg)	760.2

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05976	Intercept, bc	-0.05018
Last Calibration Date:	15-Jan-24	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	14-Jan-25	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	13.2	3.62	61.34	8.3	2.87
2	10.1	3.16	53.76	6.1	2.46
3	7.4	2.71	46.14	4.2	2.04
4	5.1	2.25	38.45	2.6	1.60
5	3.0	1.72	29.68	1.5	1.22

By Linear Regression of Y on X

Slope, mw = 0.0527 Intercept, bw : -0.3803

Correlation coefficient* = 0.9990

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.59

Remarks: _____

Conducted by: Wong Shing Kwai Signature: Date: 14-Oct-24

Checked by: Henry Leung Signature: Date: 14-Oct-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0049

Project No. AM3 - Yau Lai Estate, Bik Lai House
 Date: 14-Aug-24 Next Due Date: 14-Oct-24 Operator: SK
 Equipment No.: A-01-03 Model No.: GS2310 Serial No. 10379

Ambient Condition			
Temperature, Ta (K)	<u>302.2</u>	Pressure, Pa (mmHg)	<u>754.8</u>

Orifice Transfer Standard Information					
Serial No.	<u>3864</u>	Slope, mc	<u>0.05976</u>	Intercept, bc	<u>-0.05018</u>
Last Calibration Date:	<u>15-Jan-24</u>	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	<u>14-Jan-25</u>	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<u>12.9</u>	<u>3.55</u>	<u>60.32</u>	<u>8.0</u>	<u>2.80</u>
2	<u>10.6</u>	<u>3.22</u>	<u>54.76</u>	<u>6.2</u>	<u>2.46</u>
3	<u>7.6</u>	<u>2.73</u>	<u>46.49</u>	<u>4.4</u>	<u>2.08</u>
4	<u>5.0</u>	<u>2.21</u>	<u>37.87</u>	<u>2.8</u>	<u>1.66</u>
5	<u>2.9</u>	<u>1.69</u>	<u>29.04</u>	<u>1.6</u>	<u>1.25</u>

By Linear Regression of Y on X

Slope, mw = 0.0490 Intercept, bw : -0.1883

Correlation coefficient* = 0.9992

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation


From the TSP Field Calibration Curve, take Qstd = 43 CFM

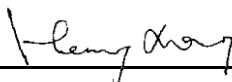
From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.75

Remarks: _____

Conducted by: Wong Shing Kwai Signature:  Date: 14-Aug-24

Checked by: Henry Leung Signature:  Date: 14-Aug-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0050

Project No. AM3 - Yau Lai Estate, Bik Lai House
 Date: 14-Oct-24 Next Due Date: 14-Dec-24 Operator: SK
 Equipment No.: A-01-03 Model No.: GS2310 Serial No. 10379

Ambient Condition			
Temperature, Ta (K)	301	Pressure, Pa (mmHg)	760.2

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05976	Intercept, bc	-0.05018
Last Calibration Date:	15-Jan-24	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	14-Jan-25	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	12.8	3.56	60.42	7.9	2.80
2	10.5	3.22	54.80	6.1	2.46
3	7.5	2.73	46.44	4.3	2.06
4	5.0	2.23	38.08	2.7	1.64
5	2.8	1.67	28.70	1.5	1.22

By Linear Regression of Y on X

Slope, mw = 0.0495 Intercept, bw : -0.2257
 Correlation coefficient* = 0.9990

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation


From the TSP Field Calibration Curve, take Qstd = 43 CFM

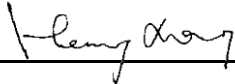
From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.65

Remarks: _____

Conducted by: Wong Shing Kwai Signature:  Date: 14-Oct-24

Checked by: Henry Leung Signature:  Date: 14-Oct-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA20003/55/028

Project No. CKL 2 - Flat 103 Cha Kwo Ling Village
 Date: 4-Sep-24 Next Due Date: 4-Nov-24 Operator: SK
 Equipment No.: A-01-55 Model No.: TE 5170 Serial No. 1956

Ambient Condition			
Temperature, Ta (K)	302.7	Pressure, Pa (mmHg)	751.8

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05976	Intercept, bc	-0.05018
Last Calibration Date:	15-Jan-24	$mc \times Q_{std} + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	14-Jan-25	$Q_{std} = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	13.6	3.64	61.74	9.4	3.03
2	11.4	3.33	56.60	7.4	2.68
3	9.3	3.01	51.20	6.0	2.42
4	5.6	2.34	39.92	2.9	1.68
5	3.6	1.87	32.17	2.0	1.40

By Linear Regression of Y on X

Slope, $m_w =$ 0.0562 Intercept, $b_w =$ -0.4760
 Correlation coefficient* = 0.9965

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take $Q_{std} = 43$ CFM

From the Regression Equation, the "Y" value according to

$$m_w \times Q_{std} + b_w = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; $W = (m_w \times Q_{std} + b_w)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.87

Remarks: _____

Conducted by: Wong Shing Kwai Signature: Date: 4-Sep-24

Checked by: Henry Leung Signature: Date: 4-Sep-24

Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler


Description: Digital Dust Indicator Date of Calibration 30-Sep-24
 Manufacturer: Sibata Scientific Technology LTD. Validity of Calibration Record 30-Nov-24
 Model No.: LD-5R
 Serial No.: 8Y2374
 Equipment No.: SA-01-04 Sensitivity 0.001 mg/m3
 High Volume Sampler No.: A-01-03 Before Sensitivity Adjustment 652
 Tisch Calibration Orifice No.: 3864 After Sensitivity Adjustment 652

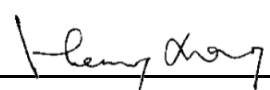
Calibration of 1 hr TSP		
Calibration Point	Laser Dust Monitor	HVS
	Mass Concentration (µg/m ³) X-axis	Mass concentration (µg/m ³) Y-axis
1	75.0	137.0
2	65.0	120.0
3	55.0	102.0
Average	65.0	119.7
By Linear Regression of Y on X Slope , mw = <u>1.7500</u> Intercept, bw = <u>5.9167</u> Correlation coefficient* = <u>0.9999</u>		
Set Correlation Factor		
Particulate Concentration by High Volume Sampler (µg/m ³)	119.7	
Particulate Concentration by Dust Meter (µg/m ³)	65.0	
Measureing time, (min)	60.0	
Set Correlation Factor , SCF		
SCF = [K=High Volume Sampler / Dust Meter, (µg/m ³)]	<u>1.8</u>	

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by: 
 Technical Officer (Wong Shing Kwai)

Approved by: 
 Project Manager (Henry Leung)

Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler


Description: Digital Dust Indicator Date of Calibration 30-Sep-24
 Manufacturer: Sibata Scientific Technology LTD. Validity of Calibration Record 30-Nov-24
 Model No.: LD-5R
 Serial No.: 8Y2373
 Equipment No.: SA-01-05 Sensitivity 0.001 mg/m3
 High Volume Sampler No.: A-01-03 Before Sensitivity Adjustment 657
 Tisch Calibration Orifice No.: 3864 After Sensitivity Adjustment 657

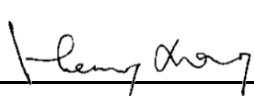
Calibration of 1 hr TSP		
Calibration Point	Laser Dust Monitor	HVS
	Mass Concentration (µg/m ³) X-axis	Mass concentration (µg/m ³) Y-axis
1	74.0	135.0
2	64.0	116.0
3	54.0	100.0
Average	64.0	117.0
By Linear Regression of Y on X Slope , mw = <u>1.7500</u> Intercept, bw = <u>5.0000</u> Correlation coefficient* = <u>0.9988</u>		
Set Correlation Factor		
Particulate Concentration by High Volume Sampler (µg/m ³)	117.0	
Particulate Concentration by Dust Meter (µg/m ³)	64.0	
Measuring time, (min)	60.0	
Set Correlation Factor , SCF		
SCF = [K=High Volume Sampler / Dust Meter, (µg/m ³)]	<u>1.8</u>	

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Limited)

Calibrated by: 
 Technical Officer (Wong Shing Kwai)

Approved by: 
 Project Manager (Henry Leung)

Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler


Description: Digital Dust Indicator Date of Calibration 30-Sep-24
 Manufacturer: Sibata Scientific Technology LTD. Validity of Calibration Record 30-Nov-24
 Model No.: LD-5R
 Serial No.: 972777
 Equipment No.: SA-01-06 Sensitivity 0.001 mg/m3
 High Volume Sampler No.: A-01-03 Before Sensitivity Adjustment 645
 Tisch Calibration Orifice No.: 3864 After Sensitivity Adjustment 645

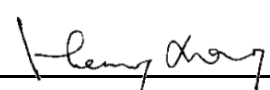
Calibration of 1 hr TSP		
Calibration Point	Laser Dust Monitor	HVS
	Mass Concentration (µg/m ³) X-axis	Mass concentration (µg/m ³) Y-axis
1	75.0	136.0
2	65.0	117.0
3	55.0	100.0
Average	65.0	117.7
By Linear Regression of Y on X Slope , mw = <u>1.8000</u> Intercept, bw = <u>0.6667</u> Correlation coefficient* = <u>0.9995</u>		
Set Correlation Factor		
Particulate Concentration by High Volume Sampler (µg/m ³)	117.7	
Particulate Concentration by Dust Meter (µg/m ³)	65.0	
Measureing time, (min)	60.0	
Set Correlation Factor , SCF		
SCF = [K=High Volume Sampler / Dust Meter, (µg/m ³)]	<u>1.8</u>	

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by: 
 Technical Officer (Wong Shing Kwai)

Approved by: 
 Project Manager (Henry Leung)

Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler


Description: Digital Dust Indicator Date of Calibration 30-Sep-24
 Manufacturer: Sibata Scientific Technology LTD. Validity of Calibration Record 30-Nov-24
 Model No.: LD-5R
 Serial No.: 972778
 Equipment No.: SA-01-07 Sensitivity 0.001 mg/m3
 High Volume Sampler No.: A-01-03 Before Sensitivity Adjustment 735 CPM
 Tisch Calibration Orifice No.: 3864 After Sensitivity Adjustment 735 CPM

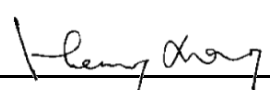
Calibration of 1 hr TSP		
Calibration Point	Laser Dust Monitor	HVS
	Mass Concentration (µg/m ³) X-axis	Mass concentration (µg/m ³) Y-axis
1	75.0	139.0
2	65.0	122.0
3	55.0	101.0
Average	65.0	120.7
By Linear Regression of Y on X Slope , mw = <u>1.9000</u> Intercept, bw = <u>-2.8333</u> Correlation coefficient* = <u>0.9982</u>		
Set Correlation Factor		
Particulate Concentration by High Volume Sampler (µg/m ³)	120.7	
Particulate Concentration by Dust Meter (µg/m ³)	65.0	
Measureing time, (min)	60.0	
Set Correlation Factor , SCF		
SCF = [K=High Volume Sampler / Dust Meter, (µg/m ³)]	<u>1.9</u>	

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by: 
 Technical Officer (Wong Shing Kwai)

Approved by: 
 Project Manager (Henry Leung)

Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler


Description: Digital Dust Indicator Date of Calibration 30-Sep-24
 Manufacturer: Sibata Scientific Technology LTD. Validity of Calibration Record 30-Nov-24
 Model No.: LD-5R
 Serial No.: 972780
 Equipment No.: SA-01-09 Sensitivity 0.001 mg/m3
 High Volume Sampler No.: A-01-03 Before Sensitivity Adjustment 739 CPM
 Tisch Calibration Orifice No.: 3864 After Sensitivity Adjustment 739 CPM

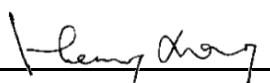
Calibration of 1 hr TSP		
Calibration Point	Laser Dust Monitor	HVS
	Mass Concentration (µg/m ³) X-axis	Mass concentration (µg/m ³) Y-axis
1	73.0	139.0
2	63.0	119.0
3	53.0	102.0
Average	63.0	120.0
By Linear Regression of Y on X Slope , mw = <u>1.8500</u> Intercept, bw = <u>3.4500</u> Correlation coefficient* = <u>0.9989</u>		
Set Correlation Factor		
Particulate Concentration by High Volume Sampler (µg/m ³)	120.0	
Particulate Concentration by Dust Meter (µg/m ³)	63.0	
Measuring time, (min)	60.0	
Set Correlation Factor , SCF		
SCF = [K=High Volume Sampler / Dust Meter, (µg/m ³)]	<u>1.9</u>	

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Limited)

Calibrated by: 
 Technical Officer (Wong Shing Kwai)

Approved by: 
 Project Manager (Henry Leung)

Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler


Description: Digital Dust Indicator Date of Calibration 30-Sep-24
 Manufacturer: Sibata Scientific Technology LTD. Validity of Calibration Record 30-Nov-24
 Model No.: LD-5R
 Serial No.: 972781
 Equipment No.: SA-01-10 Sensitivity 0.001 mg/m3
 High Volume Sampler No.: A-01-03 Before Sensitivity Adjustment 734 CPM
 Tisch Calibration Orifice No.: 3864 After Sensitivity Adjustment 734 CPM


Calibration of 1 hr TSP		
Calibration Point	Laser Dust Monitor	HVS
	Mass Concentration (µg/m ³) X-axis	Mass concentration (µg/m ³) Y-axis
1	80.0	135.0
2	70.0	116.0
3	60.0	101.0
Average	70.0	117.3
By Linear Regression of Y on X Slope , mw = <u>1.7000</u> Intercept, bw = <u>-1.6667</u> Correlation coefficient* = <u>0.9977</u>		
Set Correlation Factor		
Particulate Concentration by High Volume Sampler (µg/m ³)	117.3	
Particulate Concentration by Dust Meter (µg/m ³)	70.0	
Measuring time, (min)	60.0	
Set Correlation Factor , SCF		
SCF = [K=High Volume Sampler / Dust Meter, (µg/m ³)]	<u>1.7</u>	

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Limited)

Calibrated by: 
 Technical Officer (Wong Shing Kwai)

Approved by: 
 Project Manager (Henry Leung)

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park
18 On Lai Street, Shatin
NT, Hong Kong
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00736
Application No. : HP00592

Issue Date : 28 Jun 2024

Certificate of Calibration

Applicant : Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Sound Level Calibrator.

Equipment No.: : N-16-01

Manufacturer: : Hangzhou Aihua Instruments Co., Ltd.

Other information : Model No.	AWA6021A
Serial No.	1023253

Date Received : 27 Jun 2024

Test Period : 28 Jun 2024 to 28 Jun 2024

Test Requested : Performance checking for Sound Level Calibrator

Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius
Relative Humidity: 35-70%

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

Remark : 1. Information of the sample description provided by the Applicant.
2. The result(s) relate only to the items tested or calibrated.

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit
Laboratory Manager

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park
18 On Lai Street, Shatin
NT, Hong Kong
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00736
Application No. : HP00592

Issue Date : 28 Jun 2024

Certificate of Calibration

Measuring equipment :	Description	Sound Calibrator
	Manufacturer	Brüel & Kjær
	Model No.	TYPE 4231
	Serial No.	2326353
	Equipment No.	N-02-01
Measuring equipment :	Description	Sound Meter
	Manufacturer	BSWA Technology
	Model No.	BSWA 308
	Serial No.	570183
	Microphone No.	570605
	Equipment No.	N-12-01

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 0.3
114.0	114.1	+ 0.1	± 0.5

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

- End of report -

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park
18 On Lai Street, Shatin
NT, Hong Kong
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00582
Application No. : HP00451

Issue Date : 14 Feb 2024

Certificate of Calibration

Applicant : Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Sound Level Calibrator.

Equipment No.: : N-16-02

Manufacturer: : Hangzhou Aihua Instruments Co., Ltd.

Other information : Model No.	AWA6021A
Serial No.	1023064

Date Received : 14 Feb 2024

Test Period : 15 Feb 2024 to 15 Feb 2024

Test Requested : Performance checking for Sound Level Calibrator

Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius
Relative Humidity: 35-70%

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

Remark : **1. Information of the sample description provided by the Applicant.**
2. The result(s) relate only to the items tested or calibrated.

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit
Laboratory Manager

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park
18 On Lai Street, Shatin
NT, Hong Kong
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00582
Application No. : HP00451

Issue Date : 14 Feb 2024

Certificate of Calibration

Measuring equipment :

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

Description	Sound Meter
Manufacturer	SVANTEK
Model No.	SVAN 977
Serial No.	92677
Microphone No.	10352
Equipment No.	N-14-01

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.2	+ 0.2	± 0.3
114.0	114.2	+ 0.2	± 0.5

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

- End of report -

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park
18 On Lai Street, Shatin
NT, Hong Kong
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00583
Application No. : HP00452

Issue Date : 16 Feb 2024

Certificate of Calibration

Applicant : Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

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

Equipment No.: : N-08-07

Manufacturer: : SVANTEK

Other information :

Model No.	SVAN 957
Serial No.	21455
Microphone No.	17204

Date Received : 14 Feb 2024

Test Period : 15 Feb 2024 to 15 Feb 2024

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius
Relative Humidity: 35-70%

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

Remark : **1. Information of the sample description provided by the Applicant.**
2. The result(s) relate only to the items tested or calibrated.

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED

A handwritten signature in black ink, appearing to read 'Lee Wai Kit', is written over a horizontal line.

Lee Wai Kit
Laboratory Manager

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park
18 On Lai Street, Shatin
NT, Hong Kong
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00583
Application No. : HP00452

Issue Date : 16 Feb 2024

Certificate of Calibration

Measuring equipment :

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

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 1.5
114.0	114.1	+ 0.1	± 1.5

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

- End of report -

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park
18 On Lai Street, Shatin
NT, Hong Kong
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00647
Application No. : HP00514

Issue Date : 11 Apr 2024

Certificate of Calibration

Applicant : Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

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

Equipment No.: : N-12-01

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	570183
Microphone No.	590073

Date Received : 09 Apr 2024

Test Period : 09 Apr 2024 to 09 Apr 2024

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius
Relative Humidity: 35-70%

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

Remark : **1. Information of the sample description provided by the Applicant.**
2. The result(s) relate only to the items tested or calibrated.

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED

A handwritten signature in black ink, appearing to read 'Lee Wai Kit', is written over a horizontal line.

Lee Wai Kit
Laboratory Manager

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park
18 On Lai Street, Shatin
NT, Hong Kong
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00647
Application No. : HP00514

Issue Date : 11 Apr 2024

Certificate of Calibration

Measuring equipment :

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

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 1.5
114.0	114.2	+ 0.2	± 1.5

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

- End of report -

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park
18 On Lai Street, Shatin
NT, Hong Kong
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00648
Application No. : HP00515

Issue Date : 11 Apr 2024

Certificate of Calibration

Applicant : Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

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

Equipment No.: : N-12-05

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	580287
Microphone No.	570610

Date Received : 09 Apr 2024

Test Period : 09 Apr 2024 to 09 Apr 2024

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius
Relative Humidity: 35-70%

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

Remark : 1. Information of the sample description provided by the Applicant.
2. The result(s) relate only to the items tested or calibrated.

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED

A handwritten signature in black ink, appearing to read 'Lee Wai Kit', is written over a horizontal line.

Lee Wai Kit
Laboratory Manager

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park
18 On Lai Street, Shatin
NT, Hong Kong
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00648
Application No. : HP00515

Issue Date : 11 Apr 2024

Certificate of Calibration

Measuring equipment :

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

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 1.5
114.0	114.1	+ 0.1	± 1.5

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

- End of report -

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park
18 On Lai Street, Shatin
NT, Hong Kong
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00618
Application No. : HP00473

Issue Date : 18 Mar 2024

Certificate of Calibration

Applicant : Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

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

Equipment No.: : N-12-06

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	580156
Microphone No.	580804

Date Received : 06 Mar 2024

Test Period : 14 Mar 2024 to 14 Mar 2024

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius
Relative Humidity: 35-70%

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

Remark : **1. Information of the sample description provided by the Applicant.**
2. The result(s) relate only to the items tested or calibrated.

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED

A handwritten signature in black ink, appearing to read 'Lee Wai Kit', is written over a horizontal line.

Lee Wai Kit
Laboratory Manager

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park
18 On Lai Street, Shatin
NT, Hong Kong
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00618
Application No. : HP00473

Issue Date : 18 Mar 2024

Certificate of Calibration

Measuring equipment :

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

Test Result :

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

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

- End of report -

APPENDIX C
WEATHER INFORMATION

Appendix C - Weather Conditions During Impact Monitoring Period

Date	Mean Air Temperature (°C) ¹	Mean Relative Humidity (%) ²	Precipitation (mm) ³
1-Oct-24	30.9	58	0.0
2-Oct-24	27.4	54	0.0
3-Oct-24	26.1	49	0.0
4-Oct-24	27.0	50	0.0
5-Oct-24	27.9	63	0.0
6-Oct-24	29.2	70	0.0
7-Oct-24	29.3	66	0.0
8-Oct-24	28.2	62	0.0
9-Oct-24	26.4	68	Trace
10-Oct-24	27.0	68	Trace
11-Oct-24	25.3	79	8.7
12-Oct-24	27.0	67	0.0
13-Oct-24	27.5	73	0.0
14-Oct-24	28.0	75	0.0
15-Oct-24	28.1	75	0.0
16-Oct-24	28.2	74	Trace
17-Oct-24	27.8	77	Trace
18-Oct-24	28.3	78	Trace
19-Oct-24	29.2	74	0.0
20-Oct-24	27.9	75	1.9
21-Oct-24	27.8	75	Trace
22-Oct-24	28.3	64	0.0
23-Oct-24	25.7	57	0.0
24-Oct-24	24.8	42	0.0
25-Oct-24	26.0	45	0.0
26-Oct-24	26.6	67	0.7
27-Oct-24	27.3	73	Trace
28-Oct-24	25.8	67	Trace
29-Oct-24	25.3	69	Trace
30-Oct-24	26.2	64	0.0
31-Oct-24	27.1	52	0.0

(Reporting Month: October 2024)**Remarks:**

Source - Hong Kong Observatory

¹⁻³Retrieved from Manned Weather Station (Hong Kong Observatory) (22°18'07" N, 114°10'27" E)

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
1 Oct 2024	12:00 AM	S	1.8
1 Oct 2024	1:00 AM	SSE	3.1
1 Oct 2024	2:00 AM	SSE	2.3
1 Oct 2024	3:00 AM	SSE	3.0
1 Oct 2024	4:00 AM	S	2.7
1 Oct 2024	5:00 AM	S	2.3
1 Oct 2024	6:00 AM	S	2.7
1 Oct 2024	7:00 AM	SSE	3.4
1 Oct 2024	8:00 AM	SSE	2.9
1 Oct 2024	9:00 AM	S	3.3
1 Oct 2024	10:00 AM	SSE	3.9
1 Oct 2024	11:00 AM	S	3.3
1 Oct 2024	12:00 PM	S	3.5
1 Oct 2024	1:00 PM	SSE	3.6
1 Oct 2024	2:00 PM	S	3.9
1 Oct 2024	3:00 PM	SSE	3.5
1 Oct 2024	4:00 PM	S	3.9
1 Oct 2024	5:00 PM	SSE	3.3
1 Oct 2024	6:00 PM	SSE	4.3
1 Oct 2024	7:00 PM	S	4.3
1 Oct 2024	8:00 PM	S	3.6
1 Oct 2024	9:00 PM	S	5.2
1 Oct 2024	10:00 PM	SSE	5.0
1 Oct 2024	11:00 PM	S	4.5
2 Oct 2024	12:00 AM	S	4.5
2 Oct 2024	1:00 AM	S	4.9
2 Oct 2024	2:00 AM	S	4.4
2 Oct 2024	3:00 AM	SSE	4.7
2 Oct 2024	4:00 AM	S	4.6
2 Oct 2024	5:00 AM	S	3.9
2 Oct 2024	6:00 AM	SSE	3.7
2 Oct 2024	7:00 AM	S	3.4
2 Oct 2024	8:00 AM	SSE	4.1
2 Oct 2024	9:00 AM	SSE	4.0
2 Oct 2024	10:00 AM	SSE	4.2
2 Oct 2024	11:00 AM	SSE	4.4
2 Oct 2024	12:00 PM	S	4.1
2 Oct 2024	1:00 PM	SSE	3.8
2 Oct 2024	2:00 PM	S	3.8
2 Oct 2024	3:00 PM	S	4.0
2 Oct 2024	4:00 PM	SSE	4.0
2 Oct 2024	5:00 PM	SSE	3.7
2 Oct 2024	6:00 PM	SSE	3.1
2 Oct 2024	7:00 PM	S	2.5
2 Oct 2024	8:00 PM	SSE	2.6
2 Oct 2024	9:00 PM	SSE	3.0
2 Oct 2024	10:00 PM	SSE	3.8
2 Oct 2024	11:00 PM	SSE	3.3
3 Oct 2024	12:00 AM	S	3.5
3 Oct 2024	1:00 AM	SSE	3.4
3 Oct 2024	2:00 AM	SSE	4.1
3 Oct 2024	3:00 AM	SSE	3.4
3 Oct 2024	4:00 AM	S	2.8
3 Oct 2024	5:00 AM	S	2.7
3 Oct 2024	6:00 AM	SSE	2.2
3 Oct 2024	7:00 AM	S	2.8
3 Oct 2024	8:00 AM	SSE	3.5

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
3 Oct 2024	9:00 AM	S	3.4
3 Oct 2024	10:00 AM	S	3.4
3 Oct 2024	11:00 AM	SSE	3.2
3 Oct 2024	12:00 PM	SSE	3.1
3 Oct 2024	1:00 PM	SSE	2.7
3 Oct 2024	2:00 PM	SSE	2.6
3 Oct 2024	3:00 PM	S	2.8
3 Oct 2024	4:00 PM	SSE	2.9
3 Oct 2024	5:00 PM	S	1.4
3 Oct 2024	6:00 PM	SSE	1.4
3 Oct 2024	7:00 PM	SSE	1.0
3 Oct 2024	8:00 PM	S	0.9
3 Oct 2024	9:00 PM	S	1.2
3 Oct 2024	10:00 PM	S	2.0
3 Oct 2024	11:00 PM	SSW	1.4
4 Oct 2024	12:00 AM	SSW	1.2
4 Oct 2024	1:00 AM	S	1.7
4 Oct 2024	2:00 AM	S	1.5
4 Oct 2024	3:00 AM	S	1.5
4 Oct 2024	4:00 AM	S	1.3
4 Oct 2024	5:00 AM	S	2.0
4 Oct 2024	6:00 AM	S	2.0
4 Oct 2024	7:00 AM	S	2.3
4 Oct 2024	8:00 AM	SSW	1.9
4 Oct 2024	9:00 AM	SSW	2.0
4 Oct 2024	10:00 AM	S	2.5
4 Oct 2024	11:00 AM	S	1.8
4 Oct 2024	12:00 PM	S	1.7
4 Oct 2024	1:00 PM	S	2.4
4 Oct 2024	2:00 PM	SSE	1.7
4 Oct 2024	3:00 PM	SE	1.1
4 Oct 2024	4:00 PM	SSE	1.8
4 Oct 2024	5:00 PM	SSE	2.5
4 Oct 2024	6:00 PM	S	2.7
4 Oct 2024	7:00 PM	S	0.5
4 Oct 2024	8:00 PM	S	0.3
4 Oct 2024	9:00 PM	S	1.3
4 Oct 2024	10:00 PM	S	1.9
4 Oct 2024	11:00 PM	S	1.9
5 Oct 2024	12:00 AM	SSE	1.6
5 Oct 2024	1:00 AM	SSE	1.4
5 Oct 2024	2:00 AM	SSE	0.2
5 Oct 2024	3:00 AM	SSE	0.1
5 Oct 2024	4:00 AM	SSE	0.6
5 Oct 2024	5:00 AM	SSE	1.1
5 Oct 2024	6:00 AM	SSE	1.8
5 Oct 2024	7:00 AM	S	2.2
5 Oct 2024	8:00 AM	S	2.3
5 Oct 2024	9:00 AM	SSE	2.1
5 Oct 2024	10:00 AM	S	2.6
5 Oct 2024	11:00 AM	S	2.6
5 Oct 2024	12:00 PM	S	2.5
5 Oct 2024	1:00 PM	S	2.2
5 Oct 2024	2:00 PM	SSE	1.9
5 Oct 2024	3:00 PM	S	2.2
5 Oct 2024	4:00 PM	S	1.9
5 Oct 2024	5:00 PM	SSW	1.5

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
5 Oct 2024	6:00 PM	SSW	1.2
5 Oct 2024	7:00 PM	SSW	0.7
5 Oct 2024	8:00 PM	SSW	1.0
5 Oct 2024	9:00 PM	SSW	1.0
5 Oct 2024	10:00 PM	SSW	0.6
5 Oct 2024	11:00 PM	SSW	0.6
6 Oct 2024	12:00 AM	S	0.4
6 Oct 2024	1:00 AM	S	0.7
6 Oct 2024	2:00 AM	S	0.4
6 Oct 2024	3:00 AM	SSE	0.1
6 Oct 2024	4:00 AM	SSE	0.3
6 Oct 2024	5:00 AM	SSE	0.6
6 Oct 2024	6:00 AM	S	0.2
6 Oct 2024	7:00 AM	S	1.8
6 Oct 2024	8:00 AM	S	2.2
6 Oct 2024	9:00 AM	S	2.7
6 Oct 2024	10:00 AM	SSE	2.4
6 Oct 2024	11:00 AM	S	1.6
6 Oct 2024	12:00 PM	S	0.8
6 Oct 2024	1:00 PM	S	0.6
6 Oct 2024	2:00 PM	S	0.5
6 Oct 2024	3:00 PM	S	0.4
6 Oct 2024	4:00 PM	S	0.6
6 Oct 2024	5:00 PM	SSE	0.1
6 Oct 2024	6:00 PM	SE	0.0
6 Oct 2024	7:00 PM	S	0.1
6 Oct 2024	8:00 PM	SSE	0.1
6 Oct 2024	9:00 PM	SSE	0.0
6 Oct 2024	10:00 PM	SSE	0.0
6 Oct 2024	11:00 PM	S	0.1
7 Oct 2024	12:00 AM	S	0.0
7 Oct 2024	1:00 AM	S	0.5
7 Oct 2024	2:00 AM	S	1.0
7 Oct 2024	3:00 AM	S	1.3
7 Oct 2024	4:00 AM	S	1.2
7 Oct 2024	5:00 AM	SSE	0.5
7 Oct 2024	6:00 AM	S	1.2
7 Oct 2024	7:00 AM	S	1.8
7 Oct 2024	8:00 AM	S	2.1
7 Oct 2024	9:00 AM	S	2.2
7 Oct 2024	10:00 AM	S	2.2
7 Oct 2024	11:00 AM	S	2.1
7 Oct 2024	12:00 PM	S	1.6
7 Oct 2024	1:00 PM	SSE	1.8
7 Oct 2024	2:00 PM	S	1.3
7 Oct 2024	3:00 PM	SSE	1.3
7 Oct 2024	4:00 PM	S	0.9
7 Oct 2024	5:00 PM	SSE	0.2
7 Oct 2024	6:00 PM	SSW	0.4
7 Oct 2024	7:00 PM	S	0.1
7 Oct 2024	8:00 PM	SSE	0.0
7 Oct 2024	9:00 PM	SSE	0.0
7 Oct 2024	10:00 PM	SSE	0.0
7 Oct 2024	11:00 PM	S	0.8
8 Oct 2024	12:00 AM	S	2.2
8 Oct 2024	1:00 AM	S	1.5
8 Oct 2024	2:00 AM	S	1.3

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
8 Oct 2024	3:00 AM	S	1.1
8 Oct 2024	4:00 AM	SSE	0.9
8 Oct 2024	5:00 AM	S	1.0
8 Oct 2024	6:00 AM	S	1.0
8 Oct 2024	7:00 AM	S	2.3
8 Oct 2024	8:00 AM	S	2.8
8 Oct 2024	9:00 AM	S	3.1
8 Oct 2024	10:00 AM	S	2.7
8 Oct 2024	11:00 AM	S	2.1
8 Oct 2024	12:00 PM	S	1.9
8 Oct 2024	1:00 PM	S	1.8
8 Oct 2024	2:00 PM	S	2.0
8 Oct 2024	3:00 PM	SSW	1.5
8 Oct 2024	4:00 PM	SW	1.3
8 Oct 2024	5:00 PM	WNW	1.4
8 Oct 2024	6:00 PM	W	1.2
8 Oct 2024	7:00 PM	WSW	0.7
8 Oct 2024	8:00 PM	SSW	0.4
8 Oct 2024	9:00 PM	S	0.2
8 Oct 2024	10:00 PM	SSW	0.1
8 Oct 2024	11:00 PM	SSW	0.1
9 Oct 2024	12:00 AM	S	0.5
9 Oct 2024	1:00 AM	S	0.9
9 Oct 2024	2:00 AM	SSW	0.2
9 Oct 2024	3:00 AM	S	0.3
9 Oct 2024	4:00 AM	SSE	0.9
9 Oct 2024	5:00 AM	SSE	1.9
9 Oct 2024	6:00 AM	S	1.8
9 Oct 2024	7:00 AM	S	1.9
9 Oct 2024	8:00 AM	SSW	1.9
9 Oct 2024	9:00 AM	SSW	2.5
9 Oct 2024	10:00 AM	SSW	2.7
9 Oct 2024	11:00 AM	SSW	1.3
9 Oct 2024	12:00 PM	SSW	1.6
9 Oct 2024	1:00 PM	SSW	1.3
9 Oct 2024	2:00 PM	SSW	1.2
9 Oct 2024	3:00 PM	SSW	1.0
9 Oct 2024	4:00 PM	SSW	0.7
9 Oct 2024	5:00 PM	SW	0.5
9 Oct 2024	6:00 PM	SSW	0.4
9 Oct 2024	7:00 PM	SW	0.4
9 Oct 2024	8:00 PM	S	0.4
9 Oct 2024	9:00 PM	SSE	0.1
9 Oct 2024	10:00 PM	SSW	0.3
9 Oct 2024	11:00 PM	SSE	0.0
10 Oct 2024	12:00 AM	SSE	0.2
10 Oct 2024	1:00 AM	S	1.0
10 Oct 2024	2:00 AM	SSE	0.6
10 Oct 2024	3:00 AM	S	1.5
10 Oct 2024	4:00 AM	S	1.4
10 Oct 2024	5:00 AM	SSE	1.0
10 Oct 2024	6:00 AM	SSE	0.7
10 Oct 2024	7:00 AM	S	1.3
10 Oct 2024	8:00 AM	S	1.7
10 Oct 2024	9:00 AM	SSW	1.6
10 Oct 2024	10:00 AM	SSW	1.8
10 Oct 2024	11:00 AM	SSW	1.4

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
10 Oct 2024	12:00 PM	SSW	1.2
10 Oct 2024	1:00 PM	SSW	1.1
10 Oct 2024	2:00 PM	SW	1.1
10 Oct 2024	3:00 PM	SW	0.8
10 Oct 2024	4:00 PM	S	0.4
10 Oct 2024	5:00 PM	SSW	0.7
10 Oct 2024	6:00 PM	W	1.1
10 Oct 2024	7:00 PM	W	1.2
10 Oct 2024	8:00 PM	W	1.3
10 Oct 2024	9:00 PM	SW	0.4
10 Oct 2024	10:00 PM	SSW	0.2
10 Oct 2024	11:00 PM	SSW	0.1
11 Oct 2024	12:00 AM	S	0.0
11 Oct 2024	1:00 AM	SSE	0.4
11 Oct 2024	2:00 AM	S	0.9
11 Oct 2024	3:00 AM	SW	0.7
11 Oct 2024	4:00 AM	S	1.0
11 Oct 2024	5:00 AM	S	1.0
11 Oct 2024	6:00 AM	SSW	0.7
11 Oct 2024	7:00 AM	S	1.1
11 Oct 2024	8:00 AM	S	1.9
11 Oct 2024	9:00 AM	S	1.3
11 Oct 2024	10:00 AM	SW	0.9
11 Oct 2024	11:00 AM	WNW	1.7
11 Oct 2024	12:00 PM	SW	1.0
11 Oct 2024	1:00 PM	SW	0.5
11 Oct 2024	2:00 PM	S	0.4
11 Oct 2024	3:00 PM	SW	0.6
11 Oct 2024	4:00 PM	SW	0.8
11 Oct 2024	5:00 PM	SW	0.7
11 Oct 2024	6:00 PM	W	1.1
11 Oct 2024	7:00 PM	SSW	0.3
11 Oct 2024	8:00 PM	SW	0.2
11 Oct 2024	9:00 PM	WSW	0.5
11 Oct 2024	10:00 PM	SW	0.6
11 Oct 2024	11:00 PM	SW	0.7
12 Oct 2024	12:00 AM	W	1.0
12 Oct 2024	1:00 AM	S	0.3
12 Oct 2024	2:00 AM	SSE	0.1
12 Oct 2024	3:00 AM	S	0.0
12 Oct 2024	4:00 AM	SSW	0.4
12 Oct 2024	5:00 AM	SSW	0.3
12 Oct 2024	6:00 AM	SSE	0.1
12 Oct 2024	7:00 AM	SSW	0.4
12 Oct 2024	8:00 AM	SW	1.9
12 Oct 2024	9:00 AM	SSW	1.6
12 Oct 2024	10:00 AM	S	1.1
12 Oct 2024	11:00 AM	S	1.0
12 Oct 2024	12:00 PM	SSE	0.8
12 Oct 2024	1:00 PM	SSE	1.2
12 Oct 2024	2:00 PM	SSE	1.2
12 Oct 2024	3:00 PM	S	1.0
12 Oct 2024	4:00 PM	SE	1.0
12 Oct 2024	5:00 PM	SE	0.4
12 Oct 2024	6:00 PM	SSW	0.1
12 Oct 2024	7:00 PM	SSW	0.3
12 Oct 2024	8:00 PM	SW	0.8

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
12 Oct 2024	9:00 PM	SW	0.3
12 Oct 2024	10:00 PM	S	0.2
12 Oct 2024	11:00 PM	SSE	0.0
13 Oct 2024	12:00 AM	SSE	0.0
13 Oct 2024	1:00 AM	SSE	0.0
13 Oct 2024	2:00 AM	S	0.0
13 Oct 2024	3:00 AM	SSE	0.0
13 Oct 2024	4:00 AM	SSE	0.0
13 Oct 2024	5:00 AM	S	0.0
13 Oct 2024	6:00 AM	SE	0.0
13 Oct 2024	7:00 AM	SSE	0.6
13 Oct 2024	8:00 AM	S	1.6
13 Oct 2024	9:00 AM	SSW	1.4
13 Oct 2024	10:00 AM	SSW	1.4
13 Oct 2024	11:00 AM	SW	1.0
13 Oct 2024	12:00 PM	S	1.1
13 Oct 2024	1:00 PM	SSW	0.9
13 Oct 2024	2:00 PM	SSW	0.9
13 Oct 2024	3:00 PM	SW	1.2
13 Oct 2024	4:00 PM	SSW	1.2
13 Oct 2024	5:00 PM	SW	0.7
13 Oct 2024	6:00 PM	SW	0.4
13 Oct 2024	7:00 PM	SW	0.3
13 Oct 2024	8:00 PM	SW	0.9
13 Oct 2024	9:00 PM	SSW	0.3
13 Oct 2024	10:00 PM	SW	0.4
13 Oct 2024	11:00 PM	SSW	0.1
14 Oct 2024	12:00 AM	SSW	0.1
14 Oct 2024	1:00 AM	S	0.8
14 Oct 2024	2:00 AM	S	0.4
14 Oct 2024	3:00 AM	SSW	0.1
14 Oct 2024	4:00 AM	SSW	1.2
14 Oct 2024	5:00 AM	SSW	0.7
14 Oct 2024	6:00 AM	S	0.1
14 Oct 2024	7:00 AM	SSW	0.3
14 Oct 2024	8:00 AM	SSW	0.9
14 Oct 2024	9:00 AM	SSW	1.1
14 Oct 2024	10:00 AM	SSW	1.6
14 Oct 2024	11:00 AM	SW	1.5
14 Oct 2024	12:00 PM	SSW	1.2
14 Oct 2024	1:00 PM	SSW	1.5
14 Oct 2024	2:00 PM	SSW	1.7
14 Oct 2024	3:00 PM	SSW	1.3
14 Oct 2024	4:00 PM	WSW	1.5
14 Oct 2024	5:00 PM	WSW	1.6
14 Oct 2024	6:00 PM	WSW	2.0
14 Oct 2024	7:00 PM	WSW	1.2
14 Oct 2024	8:00 PM	SW	1.0
14 Oct 2024	9:00 PM	W	1.6
14 Oct 2024	10:00 PM	SSW	0.8
14 Oct 2024	11:00 PM	SSE	0.9
15 Oct 2024	12:00 AM	S	0.6
15 Oct 2024	1:00 AM	SSE	0.3
15 Oct 2024	2:00 AM	SSE	0.3
15 Oct 2024	3:00 AM	SSE	0.3
15 Oct 2024	4:00 AM	SSW	0.0
15 Oct 2024	5:00 AM	S	0.2

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
15 Oct 2024	6:00 AM	S	0.0
15 Oct 2024	7:00 AM	S	0.3
15 Oct 2024	8:00 AM	S	1.2
15 Oct 2024	9:00 AM	SSW	1.4
15 Oct 2024	10:00 AM	S	1.9
15 Oct 2024	11:00 AM	SSW	1.3
15 Oct 2024	12:00 PM	SSW	1.5
15 Oct 2024	1:00 PM	SSW	2.0
15 Oct 2024	2:00 PM	SSW	1.5
15 Oct 2024	3:00 PM	SSW	1.3
15 Oct 2024	4:00 PM	SW	0.8
15 Oct 2024	5:00 PM	SW	1.2
15 Oct 2024	6:00 PM	W	1.4
15 Oct 2024	7:00 PM	WSW	0.8
15 Oct 2024	8:00 PM	SSW	0.1
15 Oct 2024	9:00 PM	SSW	0.3
15 Oct 2024	10:00 PM	SSE	0.2
15 Oct 2024	11:00 PM	S	0.1
16 Oct 2024	12:00 AM	SSE	0.1
16 Oct 2024	1:00 AM	SSE	0.1
16 Oct 2024	2:00 AM	SSE	0.0
16 Oct 2024	3:00 AM	SSW	0.2
16 Oct 2024	4:00 AM	SSW	0.6
16 Oct 2024	5:00 AM	SW	0.9
16 Oct 2024	6:00 AM	SW	0.5
16 Oct 2024	7:00 AM	SSW	0.9
16 Oct 2024	8:00 AM	SSW	1.5
16 Oct 2024	9:00 AM	SSW	2.0
16 Oct 2024	10:00 AM	SSW	2.2
16 Oct 2024	11:00 AM	SSW	2.0
16 Oct 2024	12:00 PM	SSW	1.7
16 Oct 2024	1:00 PM	SSW	2.2
16 Oct 2024	2:00 PM	SSW	1.2
16 Oct 2024	3:00 PM	WSW	2.1
16 Oct 2024	4:00 PM	WSW	2.6
16 Oct 2024	5:00 PM	WNW	2.8
16 Oct 2024	6:00 PM	SSW	0.9
16 Oct 2024	7:00 PM	SSW	0.9
16 Oct 2024	8:00 PM	SSW	1.3
16 Oct 2024	9:00 PM	SSW	0.9
16 Oct 2024	10:00 PM	SSW	0.6
16 Oct 2024	11:00 PM	SSW	0.7
17 Oct 2024	12:00 AM	SW	0.9
17 Oct 2024	1:00 AM	SW	1.0
17 Oct 2024	2:00 AM	SSW	0.5
17 Oct 2024	3:00 AM	SW	0.6
17 Oct 2024	4:00 AM	S	0.5
17 Oct 2024	5:00 AM	SW	1.1
17 Oct 2024	6:00 AM	SW	1.8
17 Oct 2024	7:00 AM	SSW	1.1
17 Oct 2024	8:00 AM	SSW	1.3
17 Oct 2024	9:00 AM	SSW	1.9
17 Oct 2024	10:00 AM	S	1.7
17 Oct 2024	11:00 AM	S	1.6
17 Oct 2024	12:00 PM	SW	1.8
17 Oct 2024	1:00 PM	SW	1.5
17 Oct 2024	2:00 PM	WSW	1.4

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
17 Oct 2024	3:00 PM	WSW	1.6
17 Oct 2024	4:00 PM	SW	1.3
17 Oct 2024	5:00 PM	WSW	1.1
17 Oct 2024	6:00 PM	WSW	1.2
17 Oct 2024	7:00 PM	WSW	1.7
17 Oct 2024	8:00 PM	SW	1.5
17 Oct 2024	9:00 PM	SSW	0.6
17 Oct 2024	10:00 PM	W	1.8
17 Oct 2024	11:00 PM	WSW	1.7
18 Oct 2024	12:00 AM	SW	0.8
18 Oct 2024	1:00 AM	SW	1.1
18 Oct 2024	2:00 AM	S	0.4
18 Oct 2024	3:00 AM	SSE	0.0
18 Oct 2024	4:00 AM	SSE	0.0
18 Oct 2024	5:00 AM	SSE	0.0
18 Oct 2024	6:00 AM	S	0.0
18 Oct 2024	7:00 AM	SSE	0.2
18 Oct 2024	8:00 AM	SSW	0.6
18 Oct 2024	9:00 AM	SW	1.0
18 Oct 2024	10:00 AM	SW	1.4
18 Oct 2024	11:00 AM	WSW	2.0
18 Oct 2024	12:00 PM	W	2.2
18 Oct 2024	1:00 PM	WNW	2.2
18 Oct 2024	2:00 PM	W	1.8
18 Oct 2024	3:00 PM	W	1.5
18 Oct 2024	4:00 PM	W	1.2
18 Oct 2024	5:00 PM	W	1.4
18 Oct 2024	6:00 PM	WSW	0.6
18 Oct 2024	7:00 PM	SSW	0.3
18 Oct 2024	8:00 PM	SSW	0.3
18 Oct 2024	9:00 PM	S	0.2
18 Oct 2024	10:00 PM	SSE	0.1
18 Oct 2024	11:00 PM	SSE	0.0
19 Oct 2024	12:00 AM	SSE	0.0
19 Oct 2024	1:00 AM	SSE	0.0
19 Oct 2024	2:00 AM	S	0.0
19 Oct 2024	3:00 AM	SSE	0.0
19 Oct 2024	4:00 AM	SSE	0.0
19 Oct 2024	5:00 AM	S	0.0
19 Oct 2024	6:00 AM	SSE	0.0
19 Oct 2024	7:00 AM	S	0.1
19 Oct 2024	8:00 AM	S	0.5
19 Oct 2024	9:00 AM	S	1.3
19 Oct 2024	10:00 AM	SSE	1.7
19 Oct 2024	11:00 AM	S	2.3
19 Oct 2024	12:00 PM	SSE	1.9
19 Oct 2024	1:00 PM	S	0.8
19 Oct 2024	2:00 PM	SSE	1.0
19 Oct 2024	3:00 PM	S	0.8
19 Oct 2024	4:00 PM	S	0.7
19 Oct 2024	5:00 PM	S	0.7
19 Oct 2024	6:00 PM	SSW	1.0
19 Oct 2024	7:00 PM	SW	0.8
19 Oct 2024	8:00 PM	S	0.4
19 Oct 2024	9:00 PM	SSW	0.3
19 Oct 2024	10:00 PM	W	1.2
19 Oct 2024	11:00 PM	W	1.1

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
20 Oct 2024	12:00 AM	SSW	0.6
20 Oct 2024	1:00 AM	SSW	0.8
20 Oct 2024	2:00 AM	SSW	1.0
20 Oct 2024	3:00 AM	SW	0.9
20 Oct 2024	4:00 AM	SW	0.8
20 Oct 2024	5:00 AM	SW	0.7
20 Oct 2024	6:00 AM	SSW	0.6
20 Oct 2024	7:00 AM	SSW	1.1
20 Oct 2024	8:00 AM	SW	1.4
20 Oct 2024	9:00 AM	SSW	1.8
20 Oct 2024	10:00 AM	SSW	2.8
20 Oct 2024	11:00 AM	SW	2.9
20 Oct 2024	12:00 PM	SSW	2.3
20 Oct 2024	1:00 PM	SSW	2.1
20 Oct 2024	2:00 PM	SSW	1.8
20 Oct 2024	3:00 PM	SW	1.6
20 Oct 2024	4:00 PM	SSW	1.7
20 Oct 2024	5:00 PM	SSW	1.7
20 Oct 2024	6:00 PM	SSW	0.9
20 Oct 2024	7:00 PM	SSW	0.8
20 Oct 2024	8:00 PM	SSW	0.8
20 Oct 2024	9:00 PM	SSW	1.0
20 Oct 2024	10:00 PM	S	0.6
20 Oct 2024	11:00 PM	S	0.7
21 Oct 2024	12:00 AM	SSW	0.7
21 Oct 2024	1:00 AM	SSW	0.7
21 Oct 2024	2:00 AM	SSW	1.4
21 Oct 2024	3:00 AM	S	1.1
21 Oct 2024	4:00 AM	S	1.3
21 Oct 2024	5:00 AM	S	1.2
21 Oct 2024	6:00 AM	S	2.0
21 Oct 2024	7:00 AM	SSW	2.5
21 Oct 2024	8:00 AM	SSW	2.3
21 Oct 2024	9:00 AM	S	2.1
21 Oct 2024	10:00 AM	SSE	2.1
21 Oct 2024	11:00 AM	S	2.4
21 Oct 2024	12:00 PM	S	2.2
21 Oct 2024	1:00 PM	S	2.1
21 Oct 2024	2:00 PM	S	2.0
21 Oct 2024	3:00 PM	SSE	1.4
21 Oct 2024	4:00 PM	SSE	1.2
21 Oct 2024	5:00 PM	S	1.0
21 Oct 2024	6:00 PM	SSW	0.8
21 Oct 2024	7:00 PM	SW	0.7
21 Oct 2024	8:00 PM	SSW	0.9
21 Oct 2024	9:00 PM	SSW	0.7
21 Oct 2024	10:00 PM	SSW	0.7
21 Oct 2024	11:00 PM	SSW	0.9
22 Oct 2024	12:00 AM	S	0.6
22 Oct 2024	1:00 AM	SSE	0.6
22 Oct 2024	2:00 AM	S	0.5
22 Oct 2024	3:00 AM	SSE	0.3
22 Oct 2024	4:00 AM	SSE	0.6
22 Oct 2024	5:00 AM	SSE	1.2
22 Oct 2024	6:00 AM	S	0.6
22 Oct 2024	7:00 AM	SSW	1.9
22 Oct 2024	8:00 AM	S	2.2

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
22 Oct 2024	9:00 AM	S	2.5
22 Oct 2024	10:00 AM	SSW	2.1
22 Oct 2024	11:00 AM	SSW	0.2
22 Oct 2024	12:00 PM	SSE	0.2
22 Oct 2024	1:00 PM	SSW	0.1
22 Oct 2024	2:00 PM	SW	0.2
22 Oct 2024	3:00 PM	SSE	0.2
22 Oct 2024	4:00 PM	SE	0.3
22 Oct 2024	5:00 PM	SE	0.4
22 Oct 2024	6:00 PM	SW	0.2
22 Oct 2024	7:00 PM	SSW	0.2
22 Oct 2024	8:00 PM	SSW	0.3
22 Oct 2024	9:00 PM	WSW	0.1
22 Oct 2024	10:00 PM	S	0.2
22 Oct 2024	11:00 PM	SSW	0.3
23 Oct 2024	12:00 AM	SW	0.4
23 Oct 2024	1:00 AM	SSE	0.4
23 Oct 2024	2:00 AM	SSE	0.5
23 Oct 2024	3:00 AM	SSE	0.5
23 Oct 2024	4:00 AM	S	0.4
23 Oct 2024	5:00 AM	S	0.3
23 Oct 2024	6:00 AM	SSW	0.2
23 Oct 2024	7:00 AM	S	0.4
23 Oct 2024	8:00 AM	E	0.3
23 Oct 2024	9:00 AM	E	0.3
23 Oct 2024	10:00 AM	SE	0.2
23 Oct 2024	11:00 AM	SE	0.1
23 Oct 2024	12:00 PM	E	0.1
23 Oct 2024	1:00 PM	ENE	0.1
23 Oct 2024	2:00 PM	SSE	0.1
23 Oct 2024	3:00 PM	SSW	0.2
23 Oct 2024	4:00 PM	S	0.3
23 Oct 2024	5:00 PM	W	0.0
23 Oct 2024	6:00 PM	ESE	0.0
23 Oct 2024	7:00 PM	SSE	0.1
23 Oct 2024	8:00 PM	S	0.1
23 Oct 2024	9:00 PM	SW	0.3
23 Oct 2024	10:00 PM	SSW	0.5
23 Oct 2024	11:00 PM	SE	0.1
24 Oct 2024	12:00 AM	E	0.2
24 Oct 2024	1:00 AM	S	0.3
24 Oct 2024	2:00 AM	SSE	0.5
24 Oct 2024	3:00 AM	SSE	0.4
24 Oct 2024	4:00 AM	SSW	0.5
24 Oct 2024	5:00 AM	SSW	0.3
24 Oct 2024	6:00 AM	SE	0.7
24 Oct 2024	7:00 AM	S	0.5
24 Oct 2024	8:00 AM	S	0.6
24 Oct 2024	9:00 AM	SE	0.5
24 Oct 2024	10:00 AM	S	0.4
24 Oct 2024	11:00 AM	SSE	0.2
24 Oct 2024	12:00 PM	S	0.2
24 Oct 2024	1:00 PM	S	0.2
24 Oct 2024	2:00 PM	SSE	0.3
24 Oct 2024	3:00 PM	ESE	0.3
24 Oct 2024	4:00 PM	E	0.3
24 Oct 2024	5:00 PM	ESE	0.1

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
24 Oct 2024	6:00 PM	SW	0.2
24 Oct 2024	7:00 PM	SE	0.5
24 Oct 2024	8:00 PM	SE	0.7
24 Oct 2024	9:00 PM	ESE	0.6
24 Oct 2024	10:00 PM	ESE	0.6
24 Oct 2024	11:00 PM	SE	0.6
25 Oct 2024	12:00 AM	E	0.6
25 Oct 2024	1:00 AM	SSE	0.7
25 Oct 2024	2:00 AM	SSE	0.5
25 Oct 2024	3:00 AM	SE	0.8
25 Oct 2024	4:00 AM	SE	0.8
25 Oct 2024	5:00 AM	SSE	0.7
25 Oct 2024	6:00 AM	SSE	0.7
25 Oct 2024	7:00 AM	SSE	0.6
25 Oct 2024	8:00 AM	S	2.3
25 Oct 2024	9:00 AM	S	2.8
25 Oct 2024	10:00 AM	S	3.1
25 Oct 2024	11:00 AM	S	2.7
25 Oct 2024	12:00 PM	S	2.1
25 Oct 2024	1:00 PM	S	1.9
25 Oct 2024	2:00 PM	SSW	0.4
25 Oct 2024	3:00 PM	SW	0.4
25 Oct 2024	4:00 PM	S	0.4
25 Oct 2024	5:00 PM	SSE	0.1
25 Oct 2024	6:00 PM	SSW	0.3
25 Oct 2024	7:00 PM	SSW	2.3
25 Oct 2024	8:00 PM	SSW	2.1
25 Oct 2024	9:00 PM	SSW	1.8
25 Oct 2024	10:00 PM	S	4.1
25 Oct 2024	11:00 PM	SSE	3.8
26 Oct 2024	12:00 AM	S	3.8
26 Oct 2024	1:00 AM	S	4.0
26 Oct 2024	2:00 AM	SSE	4.0
26 Oct 2024	3:00 AM	SSE	3.7
26 Oct 2024	4:00 AM	SSE	3.1
26 Oct 2024	5:00 AM	S	2.5
26 Oct 2024	6:00 AM	SSE	0.5
26 Oct 2024	7:00 AM	SSE	0.4
26 Oct 2024	8:00 AM	SSE	0.3
26 Oct 2024	9:00 AM	S	0.1
26 Oct 2024	10:00 AM	SSE	0.2
26 Oct 2024	11:00 AM	S	0.7
26 Oct 2024	12:00 PM	S	0.9
26 Oct 2024	1:00 PM	SSW	0.4
26 Oct 2024	2:00 PM	S	0.3
26 Oct 2024	3:00 PM	SSE	0.5
26 Oct 2024	4:00 PM	SE	0.9
26 Oct 2024	5:00 PM	SE	1.5
26 Oct 2024	6:00 PM	S	1.2
26 Oct 2024	7:00 PM	SSE	1.0
26 Oct 2024	8:00 PM	SSE	1.7
26 Oct 2024	9:00 PM	SSE	1.2
26 Oct 2024	10:00 PM	S	1.1
26 Oct 2024	11:00 PM	SE	1.0
27 Oct 2024	12:00 AM	SE	0.7
27 Oct 2024	1:00 AM	SSE	0.8
27 Oct 2024	2:00 AM	SSE	0.3

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
27 Oct 2024	3:00 AM	SE	0.4
27 Oct 2024	4:00 AM	SE	0.3
27 Oct 2024	5:00 AM	S	0.4
27 Oct 2024	6:00 AM	SSE	0.5
27 Oct 2024	7:00 AM	S	0.6
27 Oct 2024	8:00 AM	S	0.6
27 Oct 2024	9:00 AM	S	0.5
27 Oct 2024	10:00 AM	S	0.3
27 Oct 2024	11:00 AM	SSE	1.2
27 Oct 2024	12:00 PM	S	0.5
27 Oct 2024	1:00 PM	S	0.1
27 Oct 2024	2:00 PM	SSE	0.2
27 Oct 2024	3:00 PM	S	0.2
27 Oct 2024	4:00 PM	SSE	0.4
27 Oct 2024	5:00 PM	S	1.0
27 Oct 2024	6:00 PM	SSE	1.2
27 Oct 2024	7:00 PM	SSE	0.9
27 Oct 2024	8:00 PM	SSE	1.1
27 Oct 2024	9:00 PM	SSE	1.3
27 Oct 2024	10:00 PM	SSE	1.1
27 Oct 2024	11:00 PM	S	0.8
28 Oct 2024	12:00 AM	SSE	0.8
28 Oct 2024	1:00 AM	SSE	0.8
28 Oct 2024	2:00 AM	SSE	0.7
28 Oct 2024	3:00 AM	S	1.0
28 Oct 2024	4:00 AM	SSE	0.9
28 Oct 2024	5:00 AM	S	1.7
28 Oct 2024	6:00 AM	SSW	1.9
28 Oct 2024	7:00 AM	SSW	1.2
28 Oct 2024	8:00 AM	SSW	1.3
28 Oct 2024	9:00 AM	SW	0.8
28 Oct 2024	10:00 AM	WSW	1.2
28 Oct 2024	11:00 AM	SW	1.0
28 Oct 2024	12:00 PM	SW	1.1
28 Oct 2024	1:00 PM	SW	1.2
28 Oct 2024	2:00 PM	SSW	0.6

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
28 Oct 2024	3:00 PM	S	0.5
28 Oct 2024	4:00 PM	S	0.7
28 Oct 2024	5:00 PM	SW	0.6
28 Oct 2024	6:00 PM	SSW	0.5
28 Oct 2024	7:00 PM	SSW	0.6
28 Oct 2024	8:00 PM	S	0.8
28 Oct 2024	9:00 PM	S	0.9
28 Oct 2024	10:00 PM	S	0.9
28 Oct 2024	11:00 PM	S	0.5
29 Oct 2024	12:00 AM	S	0.3
29 Oct 2024	1:00 AM	SSW	0.4
29 Oct 2024	2:00 AM	SSE	0.8
29 Oct 2024	3:00 AM	S	0.9
29 Oct 2024	4:00 AM	S	1.2
29 Oct 2024	5:00 AM	SW	0.9
29 Oct 2024	6:00 AM	WSW	1.9
29 Oct 2024	7:00 AM	SW	1.7
29 Oct 2024	8:00 AM	SW	1.7
29 Oct 2024	9:00 AM	SW	1.4
29 Oct 2024	10:00 AM	SSW	0.9
29 Oct 2024	11:00 AM	SSE	0.9
29 Oct 2024	12:00 PM	S	1.2
29 Oct 2024	1:00 PM	SW	1.0
29 Oct 2024	2:00 PM	SE	0.3
29 Oct 2024	3:00 PM	SSW	0.9
29 Oct 2024	4:00 PM	S	0.6
29 Oct 2024	5:00 PM	S	0.5
29 Oct 2024	6:00 PM	S	0.5
29 Oct 2024	7:00 PM	S	0.4
29 Oct 2024	8:00 PM	SSE	0.6
29 Oct 2024	9:00 PM	S	0.1
29 Oct 2024	10:00 PM	SSE	0.3
29 Oct 2024	11:00 PM	S	0.6
30 Oct 2024	12:00 AM	S	0.5
30 Oct 2024	1:00 AM	WSW	1.9
30 Oct 2024	2:00 AM	WSW	1.6
30 Oct 2024	3:00 AM	SSW	1.5
30 Oct 2024	4:00 AM	WSW	1.2
30 Oct 2024	5:00 AM	WSW	0.8
30 Oct 2024	6:00 AM	S	0.6
30 Oct 2024	7:00 AM	SSW	0.5
30 Oct 2024	8:00 AM	SSE	0.4
30 Oct 2024	9:00 AM	S	0.6
30 Oct 2024	10:00 AM	S	0.3
30 Oct 2024	11:00 AM	SSW	0.4
30 Oct 2024	12:00 PM	S	0.4
30 Oct 2024	1:00 PM	S	0.4
30 Oct 2024	2:00 PM	SSW	0.6
30 Oct 2024	3:00 PM	S	0.6
30 Oct 2024	4:00 PM	SSE	0.4
30 Oct 2024	5:00 PM	SSE	0.3
30 Oct 2024	6:00 PM	S	0.4
30 Oct 2024	7:00 PM	SSW	0.7
30 Oct 2024	8:00 PM	SE	1.2
30 Oct 2024	9:00 PM	SSE	1.1
30 Oct 2024	10:00 PM	SSE	1.5
30 Oct 2024	11:00 PM	SSE	1.4

Appendix C - Weather Conditions

October 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
31 Oct 2024	12:00 AM	S	1.3
31 Oct 2024	1:00 AM	WSW	1.4
31 Oct 2024	2:00 AM	WSW	1.4
31 Oct 2024	3:00 AM	SSW	1.3
31 Oct 2024	4:00 AM	W	1.2
31 Oct 2024	5:00 AM	W	1.3
31 Oct 2024	6:00 AM	SSE	0.9
31 Oct 2024	7:00 AM	S	0.1
31 Oct 2024	8:00 AM	SSE	0.0
31 Oct 2024	9:00 AM	SSE	0.0
31 Oct 2024	10:00 AM	SSE	0.0
31 Oct 2024	11:00 AM	S	0.8
31 Oct 2024	12:00 PM	S	2.2
31 Oct 2024	1:00 PM	S	1.5
31 Oct 2024	2:00 PM	S	1.3
31 Oct 2024	3:00 PM	SSE	3.2
31 Oct 2024	4:00 PM	SSE	3.1
31 Oct 2024	5:00 PM	SSE	2.7
31 Oct 2024	6:00 PM	SSE	2.6
31 Oct 2024	7:00 PM	S	2.8
31 Oct 2024	8:00 PM	SSE	2.9
31 Oct 2024	9:00 PM	S	1.4
31 Oct 2024	10:00 PM	SSE	1.4
31 Oct 2024	11:00 PM	SSE	1.0

**APPENDIX D
ENVIRONMENTAL MONITORING
SCHEDULES**

Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Impact Air and Noise Monitoring Schedule (October 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Oct	2-Oct	3-Oct	4-Oct	5-Oct
				24-hrs TSP	1-hr TSP X3 Noise	
6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct
		24-hrs TSP	1-hr TSP X3 Noise			
13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct
	24-hrs TSP	1-hr TSP X3 Noise				24-hrs TSP
20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
	1-hr TSP X3 Noise				24-hrs TSP	1-hr TSP X3
27-Oct	28-Oct	29-Oct	30-Oct	31-Oct		
				24-hrs TSP		

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

AM1 - Tin Hau Temple

AM2 - Sai Tso Wan Recreation Ground

AM3 - Yau Lai Estate Bik Lai House

AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village

AM4(B)₍₂₎ - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong

CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong

CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

CM4 - Tin Hau Temple, Cha Kwo Ling

CM5 - CCC Kei Faat Primary School, Yau Tong

Notes: (1) For 1-hour TSP monitoring; (2) For 24-hours TSP monitoring;

Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Tentative Impact Air and Noise Monitoring Schedule (November 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Nov	2-Nov
					1-hr TSP X3 Noise	
3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov
			24-hrs TSP	1-hr TSP X3 Noise		
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
		24-hrs TSP	1-hr TSP X3 Noise			
17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
	24-hrs TSP	1-hr TSP X3 Noise			24-hrs TSP	
24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov
	1-hr TSP X3 Noise			24-hrs TSP	1-hr TSP X3	

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

AM1 - Tin Hau Temple

AM2 - Sai Tso Wan Recreation Ground

AM3 - Yau Lai Estate Bik Lai House

AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village

AM4(B)₍₂₎ - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong

CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong

CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

CM4 - Tin Hau Temple, Cha Kwo Ling

CM5 - CCC Kei Faat Primary School, Yau Tong

Notes: (1) For 1-hour TSP monitoring; (2) For 24-hours TSP monitoring;

Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Tentative Impact Air and Noise Monitoring Schedule (December 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec	7-Dec
			24-hrs TSP	1-hr TSP X3 Noise		
8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
		24-hrs TSP	1-hr TSP X3 Noise			
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
	24-hrs TSP	1-hr TSP X3 Noise				24-hrs TSP
22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	28-Dec
	1-hr TSP X3 Noise				24-hrs TSP	1-hr TSP X3
29-Dec	30-Dec	31-Dec				

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

AM1 - Tin Hau Temple

AM2 - Sai Tso Wan Recreation Ground

AM3 - Yau Lai Estate Bik Lai House

AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village

AM4(B)₍₂₎ - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong

CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong

CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

CM4 - Tin Hau Temple, Cha Kwo Ling

CM5 - CCC Kei Faat Primary School, Yau Tong

Notes: (1) For 1-hour TSP monitoring; (2) For 24-hours TSP monitoring;

Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Tentative Impact Air and Noise Monitoring Schedule (January 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Jan	2-Jan	3-Jan	4-Jan
				24-hrs TSP	1-hr TSP X3 Noise	
5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan
			24-hrs TSP	1-hr TSP X3 Noise		
12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan
		24-hrs TSP	1-hr TSP X3 Noise			
19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan
	24-hrs TSP	1-hr TSP X3 Noise				24-hrs TSP
26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	
	1-hr TSP X3 Noise	24-hrs TSP				

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

AM1 - Tin Hau Temple

AM2 - Sai Tso Wan Recreation Ground

AM3 - Yau Lai Estate Bik Lai House

AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village

AM4(B)₍₂₎ - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong

CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong

CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

CM4 - Tin Hau Temple, Cha Kwo Ling

CM5 - CCC Kei Faat Primary School, Yau Tong

Notes: (1) For 1-hour TSP monitoring; (2) For 24-hours TSP monitoring;

**APPENDIX E
1-HOUR TSP MONITORING RESULTS
AND GRAPHICAL PRESENTATIONS**

Appendix E - 1-hour TSP Monitoring Results

Location AM1 - Tin Hau Temple			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
4-Oct-24	11:09	Sunny	16.0
4-Oct-24	12:09	Sunny	14.4
4-Oct-24	13:09	Sunny	46.4
9-Oct-24	12:45	Sunny	37.8
9-Oct-24	13:45	Sunny	43.2
9-Oct-24	14:45	Sunny	34.2
15-Oct-24	9:06	Sunny	65.6
15-Oct-24	10:06	Sunny	60.8
15-Oct-24	11:06	Sunny	54.4
21-Oct-24	11:18	Sunny	56.0
21-Oct-24	12:18	Sunny	62.4
21-Oct-24	13:18	Sunny	41.6
26-Oct-24	9:30	Sunny	64.6
26-Oct-24	10:30	Sunny	45.6
26-Oct-24	11:30	Sunny	55.1
		Average	46.5
		Maximum	65.6
		Minimum	14.4

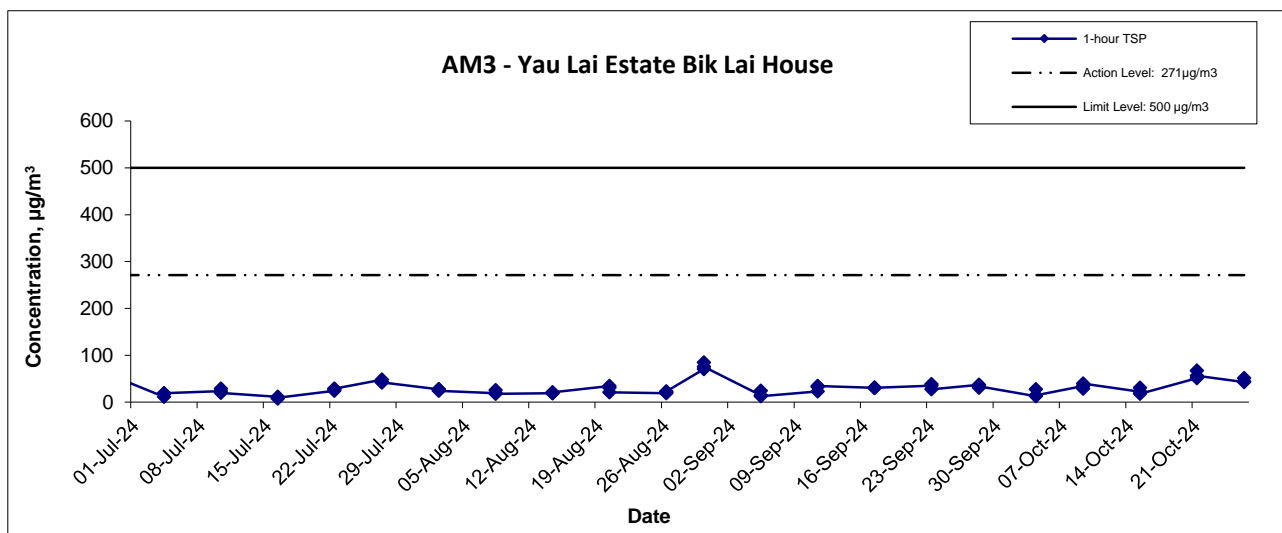
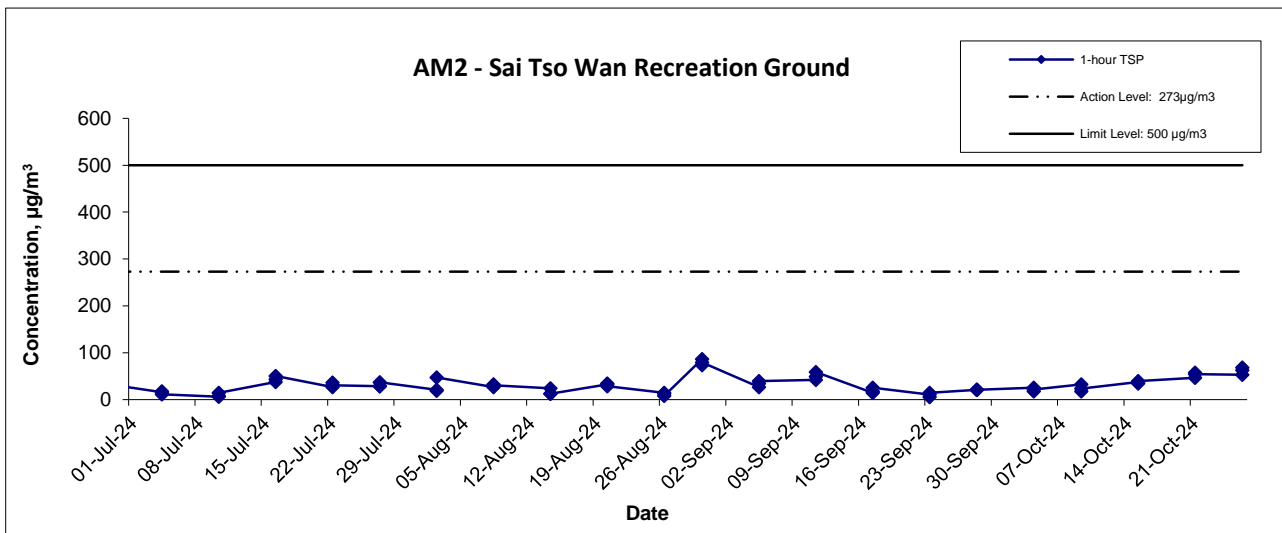
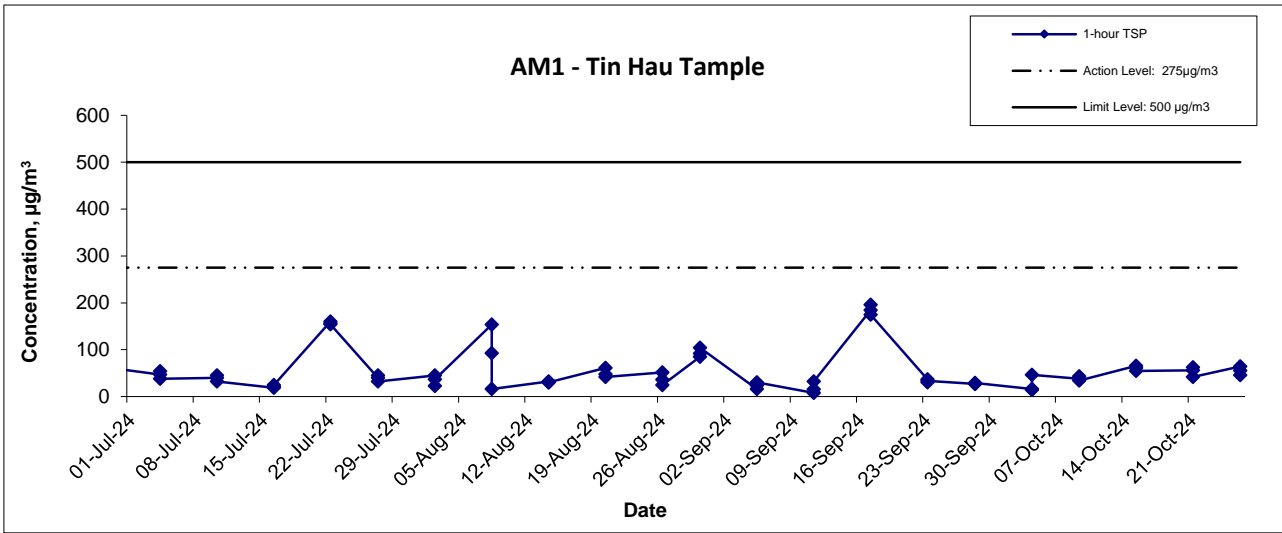
Location AM2 - Sai Tso Wan Recreation Ground			
Date	Time	Weather	<i>Particulate Concentration ($\mu\text{g}/\text{m}^3$)</i>
4-Oct-24	14:00	Sunny	25.2
4-Oct-24	15:00	Sunny	18.0
4-Oct-24	16:00	Sunny	21.6
9-Oct-24	15:40	Sunny	32.4
9-Oct-24	16:40	Sunny	18.0
9-Oct-24	17:40	Sunny	23.4
15-Oct-24	9:00	Sunny	37.8
15-Oct-24	10:00	Sunny	34.2
15-Oct-24	11:00	Sunny	39.6
21-Oct-24	15:38	Sunny	46.8
21-Oct-24	16:38	Sunny	57.6
21-Oct-24	17:38	Sunny	54.0
26-Oct-24	10:00	Sunny	53.2
26-Oct-24	11:00	Sunny	68.4
26-Oct-24	12:00	Sunny	62.7
		Average	39.5
		Maximum	68.4
		Minimum	18.0

Appendix E - 1-hour TSP Monitoring Results

Location AM3 - Yau Lai Estate Bik Lai House			
Date	Time	Weather	<i>Particulate Concentration ($\mu\text{g}/\text{m}^3$)</i>
4-Oct-24	13:48	Sunny	12.8
4-Oct-24	14:48	Sunny	27.2
4-Oct-24	15:48	Sunny	14.4
9-Oct-24	16:00	Sunny	34.2
9-Oct-24	17:00	Sunny	28.8
9-Oct-24	18:00	Sunny	39.6
15-Oct-24	14:31	Sunny	22.4
15-Oct-24	15:31	Sunny	30.4
15-Oct-24	16:31	Sunny	17.6
21-Oct-24	13:50	Sunny	51.2
21-Oct-24	14:50	Sunny	67.2
21-Oct-24	15:50	Sunny	56.0
26-Oct-24	15:30	Sunny	42.5
26-Oct-24	16:30	Sunny	44.2
26-Oct-24	17:30	Sunny	51.0
Average			36.0
Maximum			67.2
Minimum			12.8

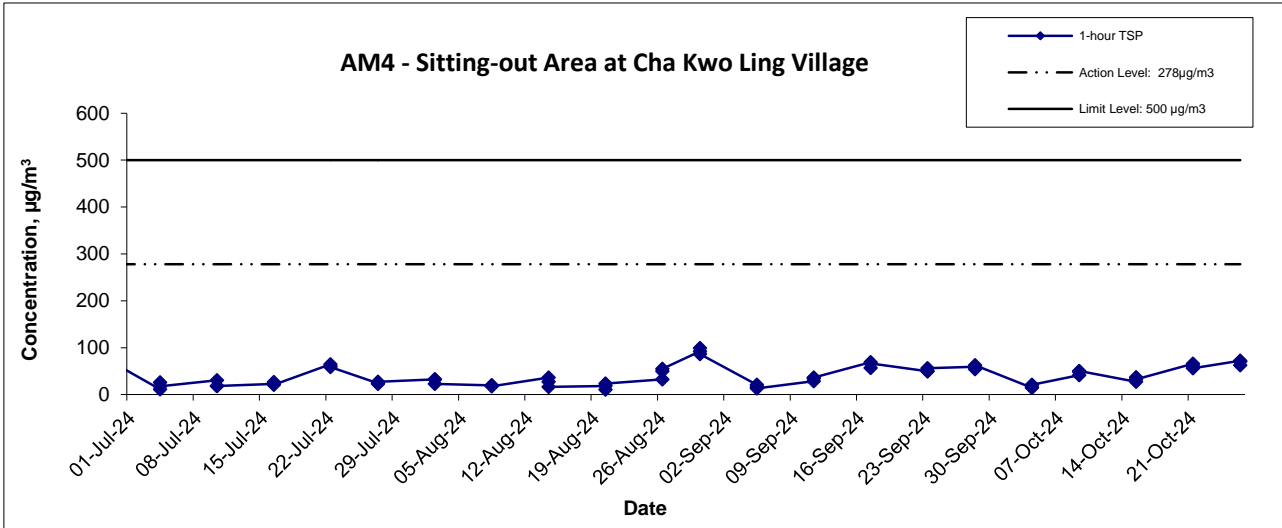
Location AM4 - Sitting-out Area at Cha Kwo Ling Village			
Date	Time	Weather	<i>Particulate Concentration ($\mu\text{g}/\text{m}^3$)</i>
4-Oct-24	9:02	Sunny	14.4
4-Oct-24	10:02	Sunny	16.0
4-Oct-24	11:02	Sunny	20.8
9-Oct-24	9:30	Sunny	41.4
9-Oct-24	10:30	Sunny	48.6
9-Oct-24	11:30	Sunny	50.4
15-Oct-24	11:59	Sunny	27.2
15-Oct-24	12:59	Sunny	36.8
15-Oct-24	13:59	Sunny	32.0
21-Oct-24	9:01	Sunny	65.6
21-Oct-24	10:01	Sunny	60.8
21-Oct-24	11:01	Sunny	56.0
26-Oct-24	12:30	Sunny	72.2
26-Oct-24	13:30	Sunny	70.3
26-Oct-24	14:30	Sunny	62.7
Average			45.0
Maximum			72.2
Minimum			14.4

1-hr TSP Concentration Levels



Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Graphical Presentation of 1-hour TSP Monitoring Results	Scale	Project No.	CINOTECH
	Date	Appendix	
	N.T.S	MA20003	
	Oct-24	E	

1-hr TSP Concentration Levels



Notes:

1. The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
2. The weather conditions during the reporting month are presented in Appendix C.
3. Other factors which might affect the monitoring results are presented in Section 2.18.

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Scale N.T.S	Project No. MA20003	CINOTECH
Graphical Presentation of 1-hour TSP Monitoring Results	Date Oct-24	Appendix E	

**APPENDIX F
24-HOUR TSP MONITORING RESULTS
AND GRAPHICAL PRESENTATIONS**

Appendix F - 24-hour TSP Monitoring Results

Location AM1 - Tin Hau Temple

Start Date	Weather	Filter Weight (g)		Particulate	Elapse Time		Sampling	Flow Rate (m ³ /min.)		Av. flow	Total vol.	Conc.
	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Oct-24	Sunny	2.7878	2.8857	0.0979	13986.6	14010.6	24.0	1.23	1.23	1.23	1765.9	55.4
8-Oct-24	Cloudy	2.8226	2.9232	0.1006	14010.6	14034.6	24.0	1.22	1.23	1.23	1764.2	57.0
14-Oct-24	Fine	2.8048	2.9049	0.1001	14034.6	14058.6	24.0	1.22	1.22	1.22	1762.2	56.8
19-Oct-24	Sunny	2.9463	3.0441	0.0978	14058.6	14082.6	24.0	1.21	1.22	1.22	1751.7	55.8
25-Oct-24	Sunny	2.7750	2.8704	0.0953	14082.6	14106.6	24.0	1.22	1.22	1.22	1751.0	54.4
31-Oct-24	Sunny	2.9352	3.0093	0.0741	14106.6	14130.6	24.0	1.21	1.22	1.22	1750.3	42.3
											Min	42.3
											Max	57.0
											Average	53.6

Location AM2 - Sai Tso Wan Recreation Ground

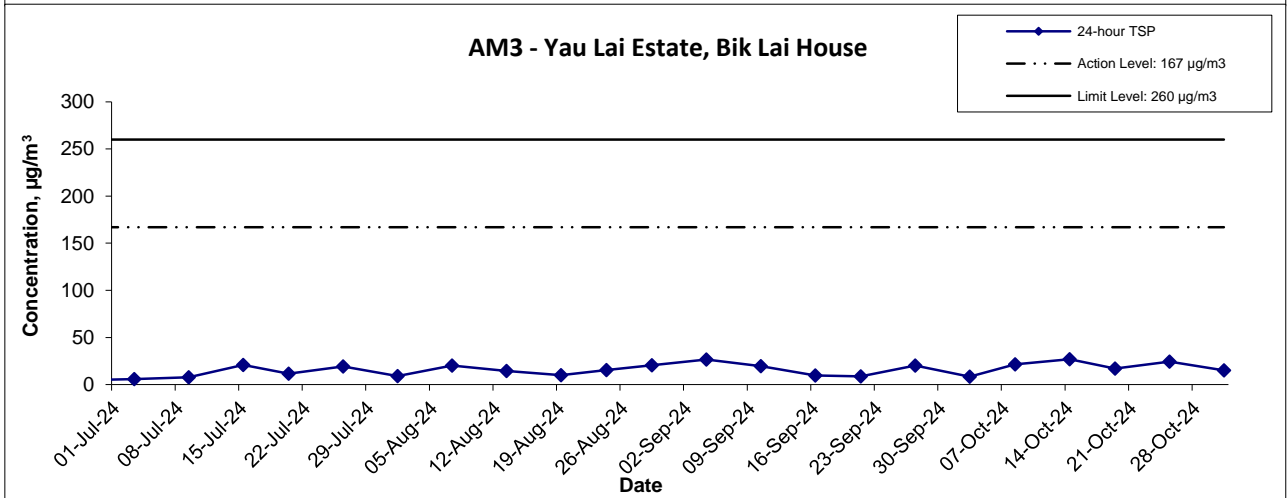
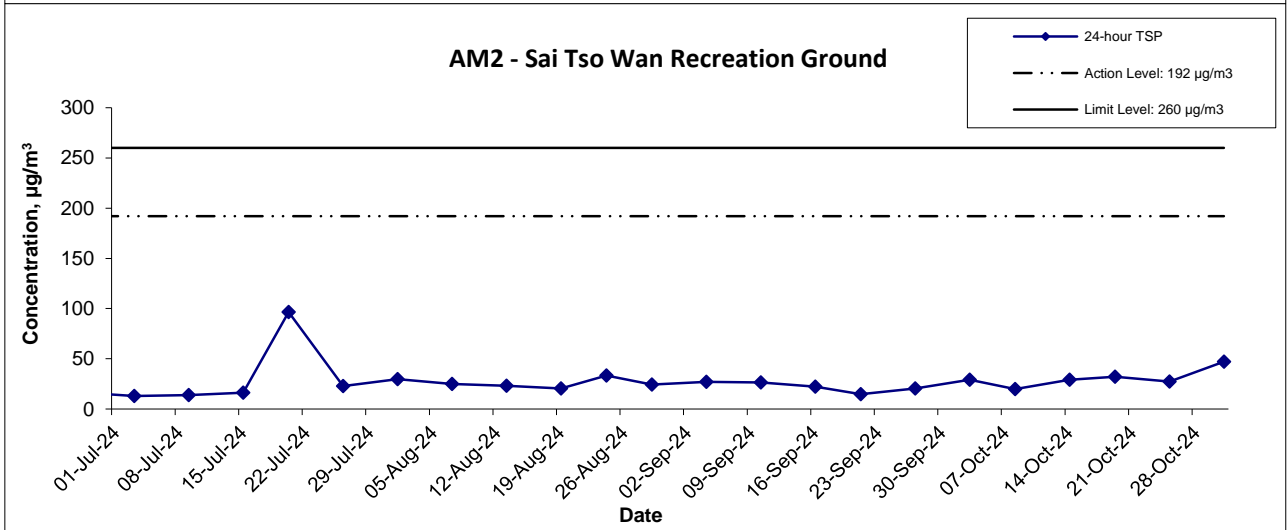
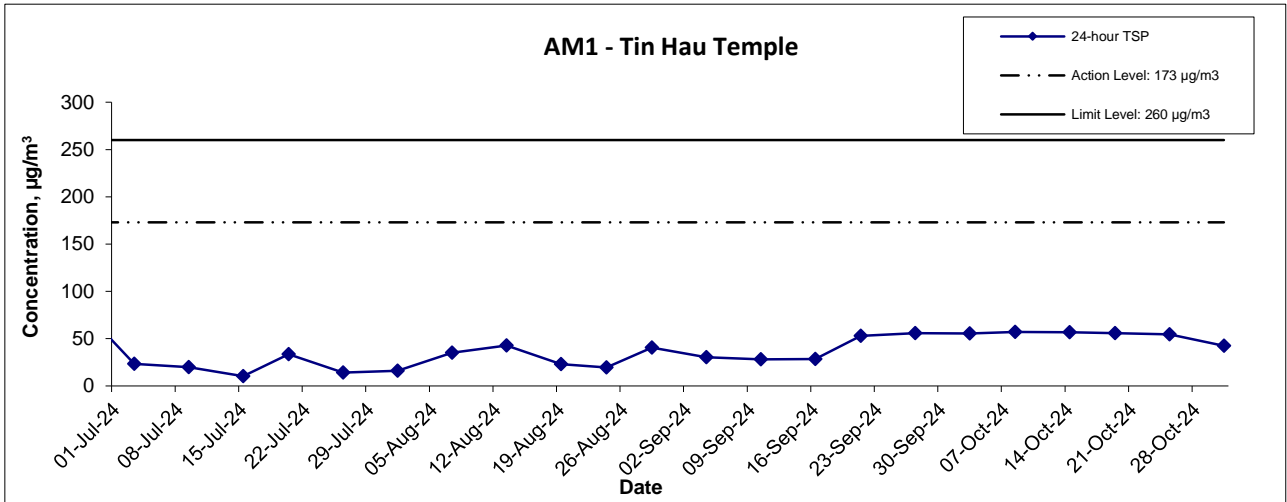
Start Date	Weather	Filter Weight (g)		Particulate	Elapse Time		Sampling	Flow Rate (m ³ /min.)		Av. flow	Total vol.	Conc.
	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Oct-24	Sunny	2.8363	2.8878	0.0514	35103.4	35127.4	24.0	1.23	1.22	1.22	1763.5	29.2
8-Oct-24	Cloudy	2.8364	2.8712	0.0348	35127.4	35151.4	24.0	1.22	1.22	1.22	1761.7	19.8
14-Oct-24	Fine	2.7917	2.8430	0.0514	35151.4	35175.4	24.0	1.22	1.22	1.22	1759.6	29.2
19-Oct-24	Sunny	2.7805	2.8367	0.0562	35175.4	35199.4	24.0	1.22	1.22	1.22	1753.0	32.0
25-Oct-24	Sunny	2.9311	2.9790	0.0478	35199.4	35223.4	24.0	1.22	1.22	1.22	1752.9	27.3
31-Oct-24	Sunny	2.7556	2.8381	0.0825	35223.4	35247.4	24.0	1.22	1.22	1.22	1751.5	47.1
											Min	19.8
											Max	47.1
											Average	30.8

Location AM3 - Yau Lai Estate, Bik Lai House

Start Date	Weather	Filter Weight (g)		Particulate	Elapse Time		Sampling	Flow Rate (m ³ /min.)		Av. flow	Total vol.	Conc.
	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Oct-24	Sunny	2.8174	2.8319	0.0145	9349.1	9373.1	24.0	1.23	1.22	1.23	1764.4	8.2
8-Oct-24	Sunny	3.3341	3.3719	0.0378	9373.1	9397.1	24.0	1.22	1.23	1.22	1762.4	21.5
14-Oct-24	Sunny	2.8083	2.8554	0.0471	9397.1	9421.1	24.0	1.22	1.22	1.22	1760.2	26.7
19-Oct-24	Sunny	2.8019	2.8319	0.0300	9421.1	9445.1	24.0	1.21	1.22	1.22	1751.9	17.1
25-Oct-24	Sunny	2.9397	2.9824	0.0427	9445.1	9469.1	24.0	1.22	1.22	1.22	1751.1	24.4
31-Oct-24	Sunny	2.9495	2.9759	0.0264	9493.1	9517.1	24.0	1.21	1.22	1.22	1751.1	15.1
											Min	8.2
											Max	26.7
											Average	18.8

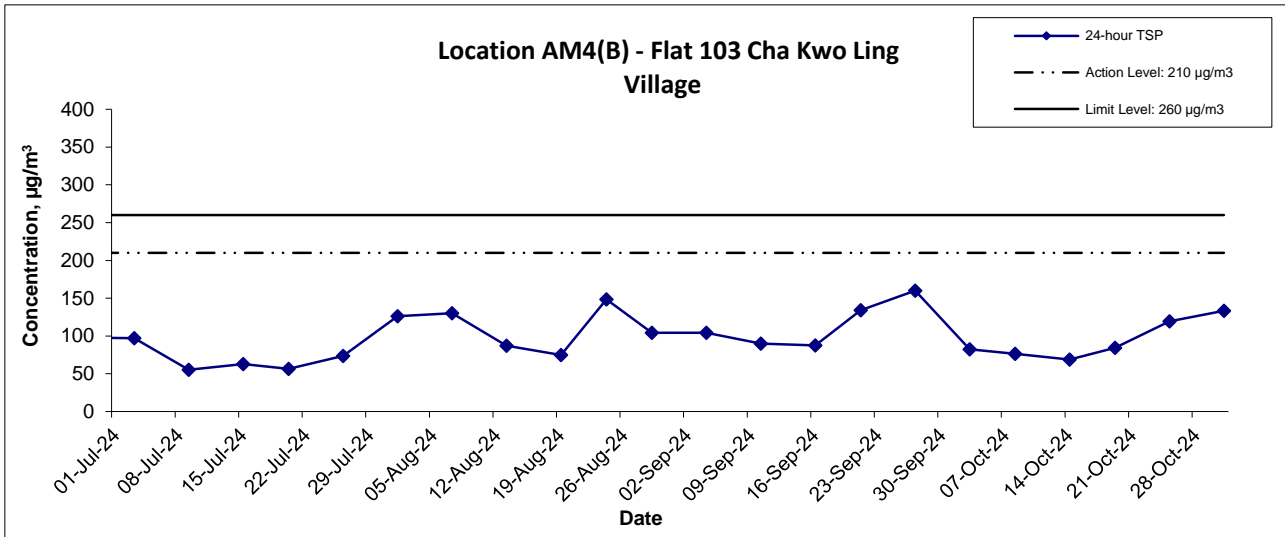
Location AM4(B) - Flat 103 Cha Kwo Ling Village

Start Date	Weather	Filter Weight (g)		Particulate	Elapse Time		Sampling	Flow Rate (m ³ /min.)		Av. flow	Total vol.	Conc.
	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Oct-24	Sunny	2.8076	2.9535	0.1459	20831.8	20855.8	24.0	1.23	1.23	1.23	1769.2	82.5
8-Oct-24	Sunny	2.7981	2.9332	0.1351	20855.8	20879.8	24.0	1.23	1.23	1.23	1767.5	76.4
14-Oct-24	Sunny	2.8036	2.9254	0.1218	20882.0	20906.0	24.0	1.23	1.23	1.23	1765.5	69.0
19-Oct-24	Sunny	2.7941	2.9433	0.1491	20906.0	20930.0	24.0	1.22	1.23	1.23	1765.5	84.5
25-Oct-24	Sunny	2.8244	3.0351	0.2107	20930.0	20954.0	24.0	1.23	1.23	1.23	1764.8	119.4
31-Oct-24	Sunny	2.8342	3.0695	0.2353	20954.0	20978.0	24.0	1.22	1.23	1.23	1764.1	133.4
											Min	69.0
											Max	133.4
											Average	94.2



Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Graphical Presentation of 24-hour TSP Monitoring Results	Scale N.T.S	Project No. MA20003	CINOTECH
	Date Oct-24	Appendix F	

24-hr TSP Concentration Levels



Notes:

- 1) The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
- 2) The weather conditions during the reporting month are presented in Appendix C.
- 3) Other factors which might affect the monitoring results are presented in Section 2.18.

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Graphical Presentation of 24-hour TSP Monitoring Results	Scale	N.T.S	Project No.	MA20003	CINOTECH
	Date	Oct-24	Appendix	F	

**APPENDIX G
NOISE MONITORING RESULTS AND
GRAPHICAL PRESENTATIONS**

Appendix G - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4 Oct 2024	14:08	Sunny	67.8	69.0	66.3	65.5	64
9 Oct 2024	13:00	Sunny	68.9	70.2	67.3	65.5	66
15 Oct 2024	14:31	Sunny	68.9	70.5	67.0	65.5	66
21 Oct 2024	16:07	Sunny	68.1	69.5	66.4	65.5	65

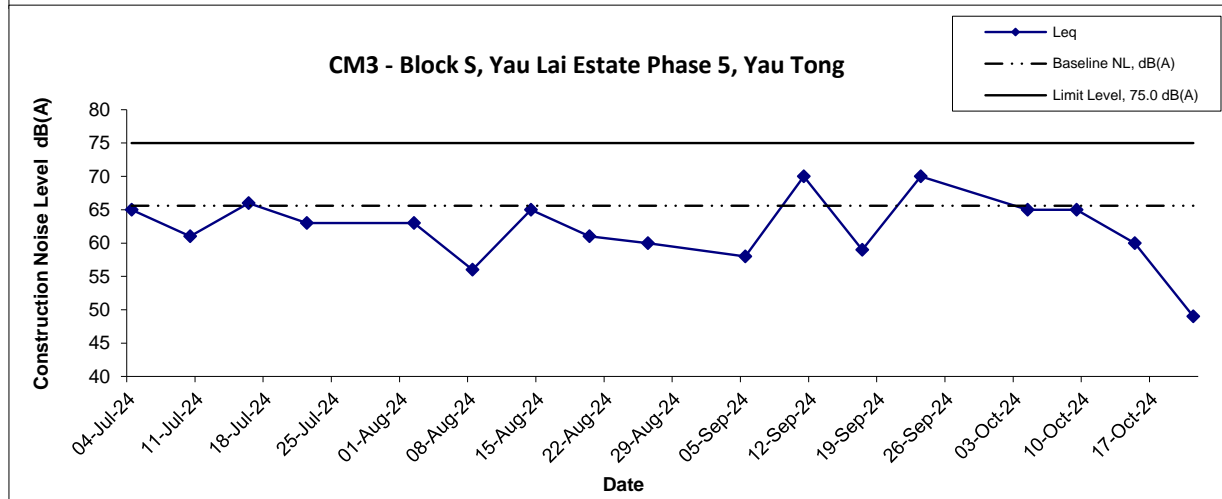
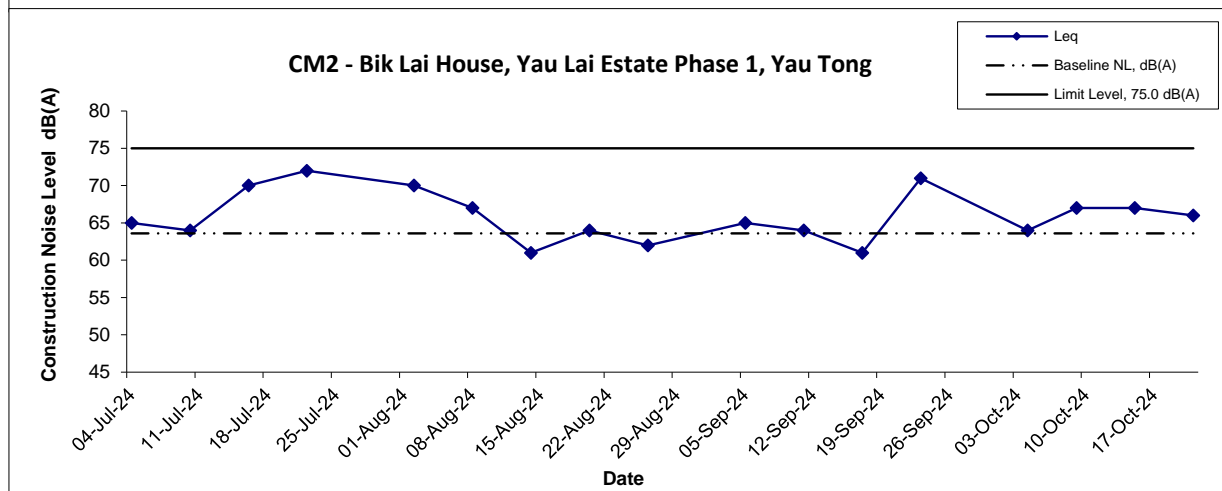
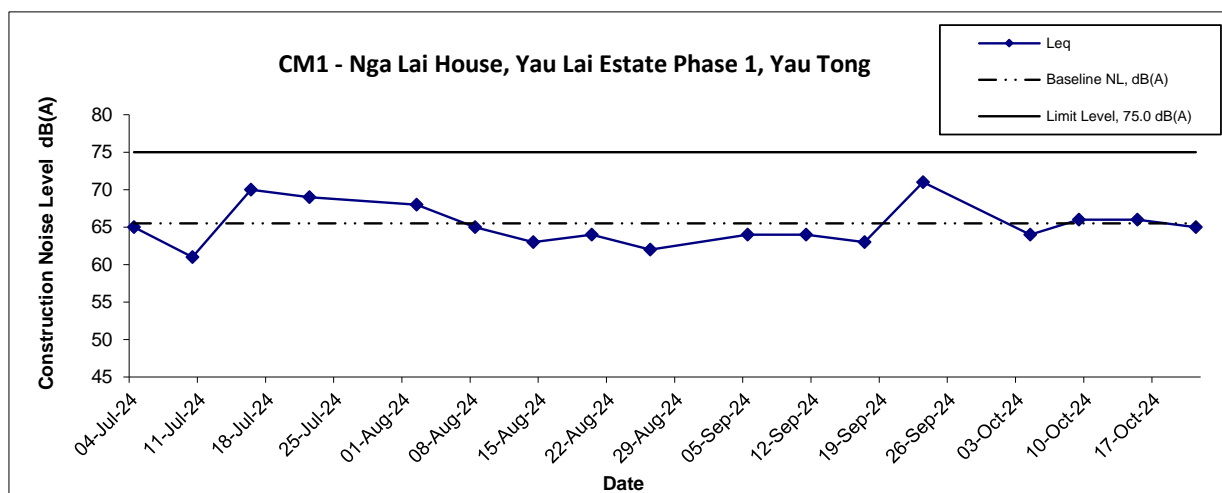
Location CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4 Oct 2024	13:30	Sunny	66.9	68.1	65.4	63.6	64
9 Oct 2024	13:38	Sunny	68.8	70.1	67.4	63.6	67
15 Oct 2024	15:09	Sunny	68.7	70.0	67.2	63.6	67
21 Oct 2024	15:29	Sunny	68.0	69.0	66.6	63.6	66

Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4 Oct 2024	14:51	Sunny	65.3	66.2	63.8	65.6	65 Measured ≤ Baseline
9 Oct 2024	12:25	Sunny	68.3	69.9	66.3	65.6	65
15 Oct 2024	15:47	Sunny	66.6	67.9	64.9	65.6	60
21 Oct 2024	14:47	Sunny	65.7	66.8	64.5	65.6	49

Location CM4 - Tin Hau Temple, Cha Kwo Ling							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4 Oct 2024	10:35	Sunny	60.4	63.0	56.4	62.0	60 Measured ≤ Baseline
9 Oct 2024	10:39	Sunny	59.3	61.8	53.9	62.0	59 Measured ≤ Baseline
15 Oct 2024	10:53	Sunny	58.9	61.7	53.8	62.0	59 Measured ≤ Baseline
21 Oct 2024	12:41	Sunny	60.5	62.7	57.1	62.0	61 Measured ≤ Baseline

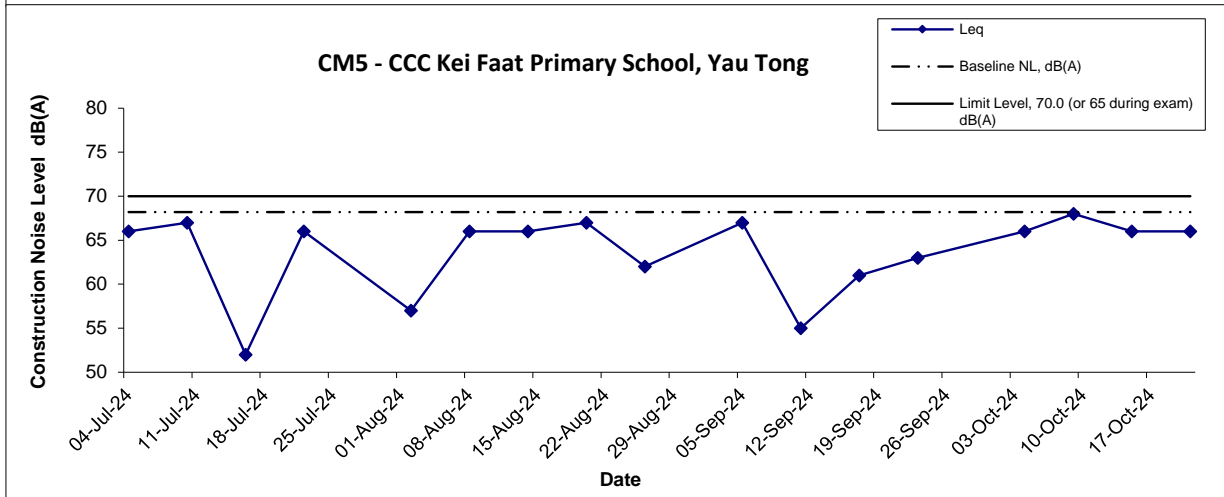
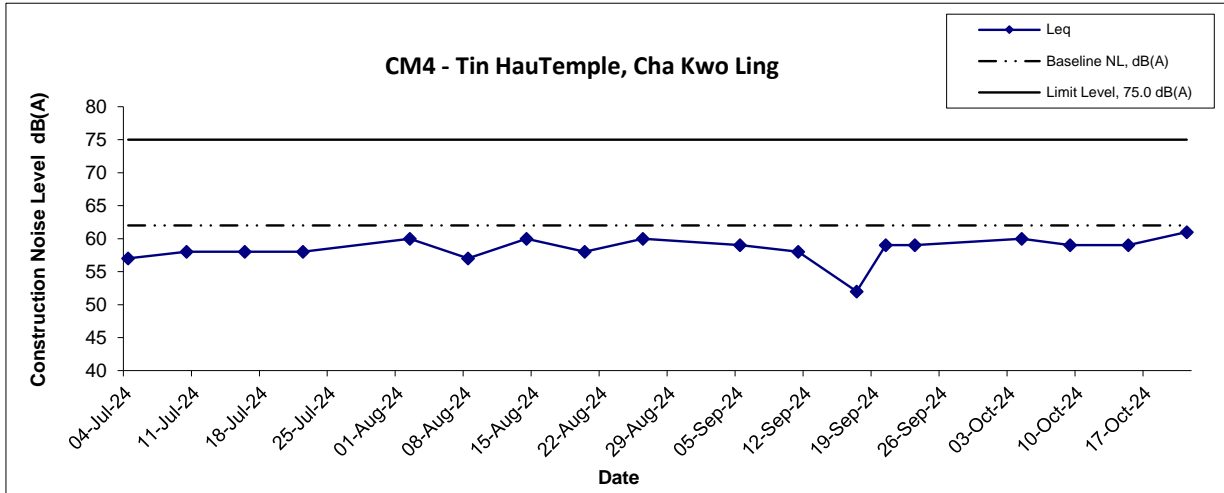
Location CM5 - CCC Kei Faat Primary School, Yau Tong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4 Oct 2024	15:32	Sunny	65.6	68.1	61.5	68.2	66 Measured ≤ Baseline
9 Oct 2024	11:17	Sunny	67.7	69.3	64.9	68.2	68 Measured ≤ Baseline
15 Oct 2024	16:24	Sunny	65.9	68.1	62.6	68.2	66 Measured ≤ Baseline
21 Oct 2024	14:03	Sunny	65.7	68.3	61.6	68.2	66 Measured ≤ Baseline

Noise Levels



Title Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Graphical Presentation of Construction Noise Monitoring Results	Scale	Project	CINOTECH
	N.T.S	No. MA20003	
	Date	Appendix	
	Sep 24	G	

Noise Levels



Notes:

- 1) The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
- 2) The weather conditions during the reporting month are presented in Appendix C.
- 3) Other factors which might affect the monitoring results are presented in Section 3.13.

Remark:

- 1) Additional noise monitoring was conducted on 20 Sep 2024 at CM4 due to the noise complaint received on 11 Sep 2024.

Title Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Graphical Presentation of Construction Noise Monitoring Results	Scale	Project	CINOTECH
	N.T.S	No. MA20003	
	Date	Appendix	
	Sep 24	G	

**APPENDIX H
WASTE GENERATION IN THE
REPORTING MONTH**



Name of Department: CEDD

Monthly Summary Waste Flow Table for 2024 (CKL)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging	i. Plastics	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January	2.027	0.187	0.000	0.000	2.027	0.000	0.000	0.000	0.000	19.000	0.054
February	5.666	0.197	0.000	0.000	5.666	0.000	0.000	0.000	0.000	0.000	0.039
March	4.705	0.198	0.000	0.000	4.705	0.000	0.000	0.000	0.000	0.000	0.032
April	8.647	0.560	0.000	0.000	8.647	0.000	0.000	0.000	0.000	0.000	0.050
May	14.492	0.121	0.086	0.000	14.406	0.000	0.000	0.000	0.000	0.000	0.039
June	8.403	0.805	1.963	0.000	6.441	0.000	0.000	0.000	0.000	0.000	0.048
Sub-total	43.941	2.067	2.049	0.000	41.892	0.000	0.000	0.000	0.000	19.000	0.262
July	11.767	2.123	3.088	0.000	8.680	0.000	0.000	0.000	0.000	0.000	0.068
August	12.058	2.919	0.030	0.000	12.028	0.000	0.000	0.000	0.000	0.000	0.056
September	3.124	1.070	1.559	0.000	1.565	0.000	0.000	0.000	0.000	0.000	0.070
October	3.840	0.000	3.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.061
November											
December											
Total	74.731	8.179	10.566	0.000	64.165	0.000	0.000	0.000	0.000	19.000	0.518

Monthly Summary Waste Flow Table

Notes:

- (1)The performance targets are given in ER Appendix 8I Clause 14 and the EM&A Manual(s).
- (2)The waste flow table shall also include C&D materials to be imported for use at the Site.
- (3)Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (4)The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m³. (ER Part 8 Clause 8.8.5 (d) (ii) refers).

Monthly Summary Waste Flow Table For 2024 (CKL)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Waste Generated Monthly							
	Total Quantity Generated	Broken Concrete (see Note 4)	Estimated Quantities (Broken Concrete)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Estimated Quantities (Metals)	Paper/ cardboard packaging	Estimated Quantities (Paper/ cardboard packaging)	Plastics (see Note 3)	Estimated Quantities (Plastics)	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 '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(tonne)
Jan-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-24														
Dec-24														
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

- (1) The performance targets are given in PS Sub-clause 2(5) (c).
- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (4) Broken concrete for recycling into aggregates.


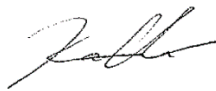
APPENDIX I
SITE AUDIT SUMMARY

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	241003
Date	03 October 2024 (Thursday)
Time	09:30 – 16:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
241003-EP458-R1	<p>B. Water Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>C. Air Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>D. Construction Noise Impact</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>E. Waste/Chemical Management</p> <ul style="list-style-type: none"> The Contractor is reminded to remove the empty chemical containers in EVB to keep the site tidy. <p>F. Visual and Landscape</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>G. Permits/Licences</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>H. Marine Ecology</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>I. Others</p> <ul style="list-style-type: none"> Follow up on the previous session (Ref No.:240926), all the items have been rectified. 	E4ii


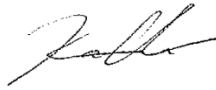
	Name	Signature	Date
Recorded by	William Yeung		03 October 2024
Checked by	Karina Chan		04 October 2024

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	241010
Date	10 October 2024 (Thursday)
Time	09:30 – 16:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	<p>B. Water Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>C. Air Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>D. Construction Noise Impact</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>E. Waste/Chemical Management</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>F. Visual and Landscape</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>G. Permits/Licences</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>H. Marine Ecology</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>I. Others</p> <ul style="list-style-type: none"> Follow up on the previous session (Ref No.:241003), all the items have been rectified. 	


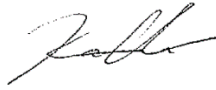
	Name	Signature	Date
Recorded by	William Yeung		10 October 2024
Checked by	Karina Chan		11 October 2024

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	241017
Date	17 October 2024 (Thursday)
Time	09:30 – 16:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	<p>B. Water Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>C. Air Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>D. Construction Noise Impact</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>E. Waste/Chemical Management</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>F. Visual and Landscape</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>G. Permits/Licences</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>H. Marine Ecology</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>I. Others</p> <ul style="list-style-type: none"> No environmental deficiency was identified in previous session (Ref No.: 241017). 	


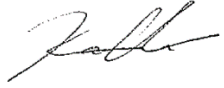
	Name	Signature	Date
Recorded by	William Yeung		17 October 2024
Checked by	Karina Chan		18 October 2024

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	241024
Date	24 October 2024 (Thursday)
Time	09:30 – 16:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	<p>B. Water Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>C. Air Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>D. Construction Noise Impact</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>E. Waste/Chemical Management</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>F. Visual and Landscape</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>G. Permits/Licences</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>H. Marine Ecology</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>I. Others</p> <ul style="list-style-type: none"> No environmental deficiency was identified in previous session (Ref No.: 241017). 	


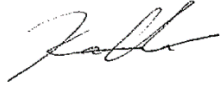
	Name	Signature	Date
Recorded by	William Yeung		24 October 2024
Checked by	Karina Chan		25 October 2024

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	241031
Date	31 October 2024 (Thursday)
Time	09:30 – 16:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	<p>B. Water Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>C. Air Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>D. Construction Noise Impact</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>E. Waste/Chemical Management</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>F. Visual and Landscape</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>G. Permits/Licences</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>H. Marine Ecology</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>I. Others</p> <ul style="list-style-type: none"> No environmental deficiency was identified in previous session (Ref No.: 241024). 	

	Name	Signature	Date
Recorded by	William Yeung		31 October 2024
Checked by	Karina Chan		01 November 2024

**APPENDIX J
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)**

App J - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Air Quality						
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	To minimize the dust impact	Contractor	All Active Work Sites	Construction phase	APCO
S3.8.1	Enclosing the unloading process at barging point by a 3-sided screen with top tipping hall / mixing area in Work Area A, provision of water spraying and flexible dust curtains	To minimize the dust impact	Contractor	Barging Points	Construction phase	APCO
S3.8.7	<p>Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.</p> <ul style="list-style-type: none"> Use of frequent watering for particularly dusty construction areas and areas close to ASRs.. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit. Imposition of speed controls for vehicles on site haul roads. Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise. <p>Stagnant water should be removed to avoid mosquitoes at EBV Basement.</p> <p>Stagnant water should be removed to avoid mosquitoes at EBV Basement.</p> <p>Stagnant water should be avoided.</p>	To minimize the dust impact	Contractor	All Construction Work Sites	Construction phase	APCO and Air Pollution Control (Construction Dust) Regulation
/	<p>Emission from Vehicles and Plants</p> <ul style="list-style-type: none"> All vehicles shall be shut down in intermittent use. Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke. All diesel fuelled construction plant within the works areas shall be powered by ultra low sulphur diesel fuel (ULSD) 	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	APCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	Reduce air pollution emission from construction vehicles and plants	--			APCO
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
Rubbish were observed at Portion U.	<p>Good Site Practice</p> <ul style="list-style-type: none"> Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities. 	To minimize construction noise impact arising from the Project at the affected NSRs	Project Proponent	Work sites	Construction Period	EIAO-TM, NCO
S4.9	Scheduling of Construction Works during School Examination Period	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work site near school	Construction phase	EIAO-TM, NCO
Water Quality Impact (Construction Phase)						
S5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m ³ , with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.2	Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum daily rate of 3,000m ³ (i.e. 1,000 m ³ per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
Silt Curtain Deployment Plan	<ul style="list-style-type: none"> Silt curtains should be deployed properly to surround the works area. Maintenance of silt curtain should be provided. Sufficient stock of silt curtain should be provided on site. 	Control potential impacts from marine works	Contractor	NE/2015/01	Construction stage	EIAO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.3	<p>Other good site practices should be undertaken during filling operations include:</p> <ul style="list-style-type: none"> all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea; floating single silt curtain shall be employed for all marine works; all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; all hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; loading of barges and hoppers should be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain. 	Control potential impacts from filling activities and marine-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
S5.8.4	Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site practices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR S5.6.1	<p>To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented:</p> <ul style="list-style-type: none"> Before carrying out any dredging and underwater filling works, a temporary barrier shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall) The temporary barrier fully enclosing the dredging and underwater filling works site shall not be removed before completion of all dredging and underwater filling works. Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier is comparable to the ambient or baseline levels prior to the removal of the fully enclosed barrier. Silt curtains shall be deployed for the installation and removal of the temporary barrier and at the double water gates marine access opening during its operation. 	Control potential impacts from dredging and filling works for Reclamation for Road P2	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.5	It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.6	Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM, DSS

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.7	Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complies with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO-LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ under the TM-DSS.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM-DSS
S5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include:	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.8	<ul style="list-style-type: none"> • use of sediment traps; and 					
S5.8.8	<ul style="list-style-type: none"> • adequate maintenance of drainage systems to prevent flooding and overflow. 					
S5.8.9	Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.10	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.11	Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m ³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.12	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.13	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.14	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50m ³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.15	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.17	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.18	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.19	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.20	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There shall be no direct discharge of effluent from the site into the sea.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.21	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.23	Minimum distances of 100m shall be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes during construction and operational phases	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, TMDSS
S5.8.24	Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction, and groundwater seepage pumped out of tunnels or caverns under construction should be discharged into storm drains after the removal of silt in silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.25 - S5.8.27 & Table 5.18	Grouting would be adopted as measure to reduce the groundwater inflow into the tunnel. During the tunnel excavation, the inflow rate of groundwater into the tunnel will be measured during the excavation. The groundwater levels above the tunnel will also be monitored by piezometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater drawdown exceeds the required limit, pre-excavation grouting will be required to reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/ foaming agents which would be entrained to the groundwater should be biodegradable and non-toxic throughout the tunnel construction. Potential groundwater quality impact would be minimal as the used material is non-toxic and biodegradable. No adverse groundwater quality would therefore be expected. Prescriptive measures in the form of an Action Plan with pre-emptive and re-active to preserve the groundwater levels at all times during the tunnel construction are set out in Table 5.18.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, Buildings Ordinance
S5.8.28	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phas	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.29 - S5.8.31	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum. To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an online standby pump of adequate capacity and with automatic alternating devices. Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.32	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfill to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.33	Bentonite slurries used in diaphragm wall and borepile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.34	If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.35	Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.36	Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.37	Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.40	Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewer via grease traps capable of providing at least 20 minutes retention during peak flow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.41	Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptor with peak storm bypass.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.42	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.43	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.44	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.45	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.46	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: <ul style="list-style-type: none"> suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.47	Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Control potential impacts from floating refuse and debris	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO,
Ecological Impact						
S6.8.4	<p>Measures to Minimize Disturbance</p> <ul style="list-style-type: none"> Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible. Hoarding or fencing should be erected around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase activities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works areas by site workers; Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities 	Minimize noise, human and traffic disturbance to terrestrial habitat and wildlife; and reduce dust generation	Design Team / Contractor	Land-based works are	Construction Phase	N/A

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S6.8.5	<p>Standard Good Site Practice</p> <ul style="list-style-type: none"> Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats. Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works. Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner. General drainage arrangements should include sediment and oil traps to collect and control construction site run-off. Open burning on works sites is illegal, and should be strictly prohibited. Measures should also be put into place so that litter, fuel and solvents do not enter the nearby watercourses. 	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
S6.8.6	<p>Measure to Minimize Groundwater Inflow</p> <ul style="list-style-type: none"> The drained tunnel construction method with groundwater inflow control measures would generally be adopted. During the tunnel excavation, pre-excavation grouting could be adopted to reduce the groundwater inflow and ensure that the tunnel would meet the long term water tightness requirements. 	Minimize groundwater inflow	Contractor	Tunnel	Construction Phase	N/A
S6.8.8	<p>Measure to Minimize Impact on Corals</p> <p><u>Coral translocation</u></p> <ul style="list-style-type: none"> It is recommended to translocate the affected coral colonies, except the locally common <i>Oulastrea crispata</i>, within the reclamation area and bridge footprint to the other suitable locations as far as practicable. The coral translocation should be conducted during the winter months (November-March) in order to avoid disturbance during their spawning period (i.e. July to October). A detailed coral translocation plan with a description on the methodology for pretranslocation coral survey, translocation methodology, identification/proposal of coral recipient site, monitoring methodology for posttranslocation should be prepared during the detailed design stage. The coral translocation plan should be subject to approval by relevant authorities (e.g. EPD and AFCDD) before commencement of the coral translocation. All the translocation exercises should be conducted by experienced marine ecologist(s) who is/are approved by AFCDD prior to commencement of coral translocation. <p><u>Post translocation Monitoring</u></p> <ul style="list-style-type: none"> A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the translocated coral communities Information gathered during each posttranslocation monitoring survey should include observations on the presence, survival, health condition and growth of the translocated coral colonies. These parameters should then be compared with the baseline results collected from the pre-translocation survey. 	Minimize loss of coral	Design team, contractor, project operator	Within reclamation areas and pier footprint	Prior construction	N/A

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S6.8.9 S6.8.10	Measure to Control Water Quality Impact <ul style="list-style-type: none"> Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. Diverting of the site runoff to silt trap facilities before discharging into storm drain; Proper waste and dumping management; and Standard good-site practice for land-based construction. 	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	WQO
S6.8.11	Compensation for Vegetation Loss <ul style="list-style-type: none"> Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition. 	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A
Fisheries Impact						
S7.7.3	Measure to Control Water Quality Impact <ul style="list-style-type: none"> Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. 	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	WQO
Waste Management (Construction Phase)						
S8.6.3	Good Site Practices and Waste Reduction Measures <ul style="list-style-type: none"> 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 appropriate facility, of all wastes generated at the site; Training of site personnel in site cleanliness, proper waste management and chemical handling procedures; Provision of sufficient waste disposal points and regular collection of waste; Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. 	To reduce waste management impacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.4	Good Site Practices and Waste Reduction Measures (con't) <ul style="list-style-type: none"> Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste. 	To achieve waste reduction	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.5	Good Site Practices and Waste Reduction Measures (con't) The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.6	<p>Good Site Practices and Waste Reduction Measures (con't)</p> <ul style="list-style-type: none"> C&D materials would be reused in the project and other local concurrent projects as far as possible. 	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.7	<p>Storage, Collection and Transportation of Waste</p> <p>Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include:</p> <ul style="list-style-type: none"> Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution; Maintain and clean storage areas routinely; Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and Different locations should be designated to stockpile each material to enhance reuse. 	To minimize potential adverse environmental impacts arising from waste storage	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.8/ Waste Management Plan	<p>Storage, Collection and Transportation of Waste (con't)</p> <ul style="list-style-type: none"> Remove waste in timely manner; Waste collectors should only collect wastes prescribed by their permits; Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers; Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and Maintain records of quantities of waste generated, recycled and disposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.9/ Waste Management Plan	<p>Storage, Collection and Transportation of Waste (con't)</p> <ul style="list-style-type: none"> Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010
S8.6.11 - S8.6.13/ Waste Management Plan	<p>Sorting of C&D Materials</p> <ul style="list-style-type: none"> Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site. Specific areas shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials. The C&D materials should at least be segregated into inert and non-inert materials, in which the inert portion could be reused and recycled in the reclamation as far as practicable before delivery to PFRFs. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfills 	To minimize potential adverse environmental	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005
S8.6.17 – S8.6.20	<p>Sediments (con't)</p> <ul style="list-style-type: none"> Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediments or cement stabilization of sediment. A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site. 	To determine the best handling and treatment of sediment	Contractor	All works areas with sediments concern	Construction Phase	ETWB TCW No. 19/2005

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.24 - S8.6.28/ Waste Management Plan	<p>Sediments (con't)</p> <ul style="list-style-type: none"> The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by the MFC. The excavated sediment would be disposed of according to its determined disposal options and ETWB TC(W) No. 34/2002. Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling areas should be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site. Another possible arrangement for Type 3 disposal is by geosynthetic containment. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal. 	To ensure handling of sediments are in accordance to statutory requirements	Contractor	All works areas with sediments concern	Construction Phase	ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance
S8.6.26/ Waste Management Plan	<p>Chemical Wastes.</p> <ul style="list-style-type: none"> If chemical wastes are produced at the construction site, the Contractor would 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, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 	To ensure proper management of chemical waste	Contractor	All works sites	Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.27/ Waste Management Plan	<p>General Refuse</p> <ul style="list-style-type: none"> General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material. 	To ensure proper management of general refuse	Contractor	All works sites	Construction Phase	Public Health and Municipal Services Ordinance (Cap. 132)
Impact on Cultural Heritage (Construction Phase)						
S9.6.4	<p>Dust and visual impacts</p> <ul style="list-style-type: none"> Temporarily fenced off buffer zone with allowance for public access (minimum 1 m) should be provided; The open yard in front of the temple should be kept as usual for annual Tin Hau festival; Monitoring of vibration impacts should be conducted when the construction works are less than 100m from the temple. 	To prevent dust and visual impacts	Contractors	Work areas	Construction Phase	EIAO; GCHIA; AMO
S9.6.4	<p>Indirect vibration impact</p> <ul style="list-style-type: none"> Vibration level is suggest to be controlled within a peak particle velocity (ppv) limit of 5mm/s measured inside the historical buildings; Monitoring of vibration should be carried out during construction phase. Tilting and settlement monitoring should will be applied on the Cha Kwo Ling Tin Hau Temple as well. A proposal with details for the mitigation measures and monitoring of impacts on built heritage shall be submitted to AMO for comments before commencement of work. 	To prevent indirect vibration impact	Contractors	Work areas	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Built Heritage Mitigation Plan	<ul style="list-style-type: none"> Established Alert, Alarm and Action Level for the monitoring parameters. To increase the instrumentation monitoring and reporting frequency. To propose detailed action plan or contingency plan for the Engineer's approval when AAA Level is reached or exceeded. 	To prevent vibration impacts	NE/2015/01	Tin Hau Temple	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Landscape and Visual Impact (Construction Phase)						
Table 10.8.1/ Landscape Mitigation Plan	CM1 - Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape.	Avoid impact on adjacent landscape areas	CEDD (via Contractor)	General	Construction planning and during construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM2 - Reduction of construction period to practical minimum.	Minimise duration of impact	CEDD (via Contractor)	N/A	Construction planning	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM3 - Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate.	To allow re-use of topsoil	CEDD (via Contractor)	General	Site clearance	As per the Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	To minimize tree loss	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance and throughout construction period	ETWB TC 3/2006 and as per tree protection measures in Particular Specification

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Table 10.8.1/ Landscape Mitigation Plan	CM5 - Trees unavoidably affected by the works shall be transplanted where practicable. Where possible, trees should be transplanted direct to permanent locations rather than temporary holding nurseries. A detailed tree transplanting specification shall be provided in the Contract Specification and sufficient time for preparation shall be allowed in the construction programme.	To maximize preservation of existing trees	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance	ETWB TC 3/2006 and as per tree protection measures in Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM6 - Advance screen planting of fast growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.	To maximize screening of the works	CEDD (via Contractor)	At Lam Tin Interchange and edge of Road P2 landscape deck, TKO	Beginning of construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM7 - Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	As per Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM8 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM9 - Screening of works areas with hoardings with appropriate colours compatible with the surrounding area	Reduction of visual intrusion	CEDD (via Contractor)	Project site Boundary	Excretion of site hoarding	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM10 - Avoidance of excessive height and bulk of site buildings and structure	Reduction of visual intrusion and integration with environment	CEDD (via Contractor)	Built structures	Design and construction stage	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM11 - Limitation of run-off into freshwater streams, ponds and sea areas	Avoidance of contamination of water courses and water bodie	CEDD (via Contractor)	TKO reclamation, TKO tunnel portal, Cha Kwo Ling roadworks	Throughout construction period	N/A
Table 10.8.1	CM12 - Minimise area of reclamation and design the edges sensitively to tie in with adjacent coastline characte	Minimise loss of Junk Bay and integration with existing coastlin	CEDD (via Contractor)	Temporary reclamation for barging points at TKO and Lam Tin and permanent reclamation for TKO Interchange slip roads and Road P2	Construction planning and reclamation stages	N/A
Landfill Gas Hazard (Design and Construction Phase)						
S11.5.9	A Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be present on site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable instrument, which is appropriately calibrated and able to measure the following gases in the ranges indicated below: Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21%	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S11.5.10 S11.5.25	<p>Safety Measures</p> <ul style="list-style-type: none"> For staff who work in, or have responsibility for “at risk” area, such as all excavation workers, supervisors and engineers working within the Consultation Zone, should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards. An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out. No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a rescue if needed. Smoking, naked flames and all other sources of ignition should be prohibited within 15m of any excavation or ground-level confined space. “No smoking” and “No naked flame” notices should be posted prominently on the construction site and, if necessary, special areas should be designed for smoking. Welding, flame-cutting or other hot works should be confined to open areas at least 15m from any trench or excavation. Welding, flame-cutting or other hot works may only be carried out in trenches or confined spaces when controlled by a “permit to work” procedure, properly authorized by the Safety Officer (or, in the case of small developments, other appropriately qualified person). The permit to work procedure should set down clearly the requirements for continuous monitoring for methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure should also require the presence of an appropriately qualified person, in attendance outside the ‘confined area’, who should be responsible for reviewing the gas measurements as they are made, and who should have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out hot works in confined areas. Where there are any temporary site offices, or any other buildings located within the Sai Tso Wan Landfill Consultation Zone which have enclosed spaces with the capacity to accumulate landfill gas, then they should either be located in an area which has been proven to be free of landfill gas (by survey using portable gas detectors); or be raised clear of the ground by a minimum of 500mm. This aims to create a clear void under the structure which is ventilated by natural air movement such that emission of gas from the ground are mixed and diluted by air. Any electrical equipment, such as motors and extension cords, should be intrinsically safe. During piping assembly or conduiting construction, all valves/seals should be closed immediately after installation. As construction progresses, all valves/seals should be closed to prevent the migration of gases through the pipeline/conduit. All piping /conduiting should be capped at the end of each working day. During construction, adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus (BA) sets should be made available on site. Fire drills should be organized at not less than six monthly intervals. 	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD’s Landfill Gas Hazard Assessment Guidance Note Labour Department’s Code of Practice for Safety and Health at Work in Confined Space

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S11.5.10 S11.5.25	<ul style="list-style-type: none"> The contractor should formulate a health and safety policy, standards and instructions for site personnel to follow. All personnel who work on the site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of excavations. Safety notices (in Chinese and English) should be posted at prominent position around the site warning danger of the potential hazards. Service runs within the Consultation Zone should be designated as "special routes"; utilities companies should be informed of this and precautionary measures should be implemented. Precautionary measures should include ensuring that staff members are aware of the potential hazards of working in confined spaces such as manholes and service chambers, and that appropriate monitoring procedures are in place to prevent hazards due to asphyxiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Kong). Periodically during ground-works construction within the 250m Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored should be set down prior to commencement of ground-works either by the Safety Officer or an approved and appropriately qualified person. 					
S11.5.26 - S11.5.31	<p>Monitoring</p> <ul style="list-style-type: none"> Routine monitoring should be carried out in all excavations, manholes, chambers, relocation of monitoring wells and any other confined spaces that may have been created. All measurements in excavations should be made with the extended monitoring tube located not more than 10 mm from the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters into the area. For excavations deeper than 1m, measurements should be carried out: <ul style="list-style-type: none"> at the ground surface before excavation commences;- immediately before any worker enters the excavation; at the beginning of each working day for the entire period the excavation remains open; and periodically throughout the working day whilst workers are in the excavation. For excavations between 300mm and 1m deep, measurements should be carried out: <ul style="list-style-type: none"> directly after the excavation has been completed; and periodically whilst the excavation remains open. For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person. Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or other appropriately qualified person. The exact frequency of monitoring should be determined prior to the commencement of works, but should be at least once per day, and be carried out by a suitably qualified or qualified person before starting the work of the day. Measurements shall be recorded and kept as a record of safe working conditions with copies of the site diary and submitted to the Engineer for approval. The Contractor may elect to carry out monitoring via an automated monitoring system. 	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
S11.5.32	The hazards from landfill gas during the construction stage within the Sai Tso Wan Landfill Consultation Zone should be minimized by suitable precautionary measures recommended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.	<p>construction stage within the Sai Tso Wan</p> <p>Protect the workers from landfill gas hazards</p>	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note

Table II - Observation / Reminder / Non-compliance made during Site Audit

- Key:
- ✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit
 - ✗ Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit
 - # Follow up action will be reported in next reporting month
 - * Non-compliance of mitigation measure
 - Non-compliance but improved by the contractor

EIA Ref	Recommended Mitigation Measures	Details of Reminder/Observation	Recorded Date	Status
Air Quality				
S3.8.7	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.	The Contractor is reminded to cover the cement bags which is more than 20 bags per stack.	26 Sep 2024	✓
Construction Noise Impact				
--	--	--		
Water Quality Impact				
--	--	--		
Ecological Impact				
--	--	--		
Fisheries Impact				
--	--	--		
Waste Management				
S8.6.8/ Waste Management Plan	Remove waste in timely manner;	The Contractor is reminded to remove the empty chemical containers in EVB to keep the site tidy.	3 Oct 2024	✓
Landscape and Visual Impact				
--	--	--		
Landfill Gas Hazards				
--	--	--		

APPENDIX L
EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of complaint and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method. 	<ol style="list-style-type: none"> 1. Notify Contractor. 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 	<ol style="list-style-type: none"> 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; 5. Supervise Implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for remedial actions to IEC within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

	<ol style="list-style-type: none"> 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. 			
Limit level being exceeded by one sampling	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform Contractor ,IEC, ER, and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	<ol style="list-style-type: none"> 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 ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Limit level being exceeded by two or more consecutive sampling	<ol style="list-style-type: none"> 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals;

	<ol style="list-style-type: none">5. Carry out analysis of Contractor's working procedures to determine 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;8. If exceedance stops, cease additional monitoring.	<ol style="list-style-type: none">3. Supervise the implementation of remedial measures.	<ol style="list-style-type: none">4. Ensure remedial measures properly implemented;5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	<ol style="list-style-type: none">4. Resubmit proposals if problem still not under control;5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Event and Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level	<ol style="list-style-type: none"> 1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC, ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Limit Levels and Action Plan for Landfill Gas

Parameter	Limit Level	Action
Oxygen	<19%	<ul style="list-style-type: none"> • Ventilate to restore oxygen to >19%
	<18%	<ul style="list-style-type: none"> • Stop works • Evacuate personnel/prohibit entry • Increase ventilation to restore oxygen to >19%
Methane	>10% LEL (i.e. > 0.5% by volume)	<ul style="list-style-type: none"> • Prohibit hot works • Ventilate to restore methane to <10% LEL
	>20% LEL (i.e. > 1% by volume)	<ul style="list-style-type: none"> • Stop works • Evacuate personnel / prohibit entry • Increase ventilation to restore methane to <10% LEL
Carbon Dioxide	>0.5%	<ul style="list-style-type: none"> • Ventilate to restore carbon dioxide to < 0.5%
	>1.5%	<ul style="list-style-type: none"> • Stop works • Evacuate personnel / prohibit entry • Increase ventilation to restore carbon dioxide to <0.5%

**APPENDIX M
SUMMARIES OF ENVIRONMENTAL
COMPLAINT, WARNING, SUMMON
AND NOTIFICATION OF SUCCESSFUL
PROSECUTION**

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Table M1 Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution Received in the Reporting Period

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
L01	Portion Q1	18th October 2024	EPD received complaint referred by CE office against the light nuisance and Dark Smoke from the barges berthed near Laguna City, Lam Tin. EPD's inspection on 17 Oct 2024 noticed some barges anchored outside the seafront of T2 construction site with their floodlights turned on. And this may be the source of the light nuisance complaint.	Light and Air	<ul style="list-style-type: none">• The night work operation is under valid permit, lighting at Portion Q1 area including all PME was turned off before 11pm.• Micro-Ringelmann Chart produced by the Marine Department was used to check the emission from the barge and no dark smoke is emitted when the barge is operating.• There was no direct evidence that any dark smoke was emitted while the barge is operating.• In addition, the Contractor should still maintain good site practices, such as turn off unnecessary lighting and adjust the angle of lighting to reduce light nuisance to public.• The Contractor is recommended to conduct regular maintenance for all Powered Mechanical Equipment to prevent dark smoke emission.	Closed

Remarks: One (1) environmental complaint was received in the reporting period, no warning/ summon and prosecution were received in the reporting period.

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Table M2 Cumulative Log for Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N02	Portion T1	10-Oct-2020	Resident of Yau Lai Estate complained that i) an excavator operated before 7 am on 9 and 10 October 2020; and, ii) the height of noise barriers is not sufficient for noise reduction.	Noise	<ul style="list-style-type: none"> Contractor was recommended to scheduled noisy works to less sensitive hours (e.g. normal weekdays between 08:00-19:00) to minimize noise nuisance. Since the complaint location stated in part II is situated out of the project boundary and within the other construction site, no investigation shall be conducted for non-project related complaint. 	Closed
Complaint #N04	Portion T1	9-Feb-2021	Resident of Cha Kwo Ling village revealed that some breaking noise was heard at his/her residence (near Cha Kwo Ling Main Street) from the ground at about 20:00 on 08 Feb, 2021	Noise	<ul style="list-style-type: none"> The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side on the evening time and night-time of the date of complaint are considered as one of the potential noise sources of the ground borne noise nuisance. 	Closed
		6 March 2021	The complainant informed that they continue to hear breaking noise during 3-4 a.m. and caused serious noise nuisance to the residents.			

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					<ul style="list-style-type: none">• A valid CNP was hold and the construction activities being taken were complied with the relevant CNP.• Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise• In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs.• Contractor is recommended to continue to strictly follow the requirements in the relevant CNP.• According to the condition 3.d point 5 of the CNP (GW-RE0071-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received.	

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N05	Portion T1	18 July 2021	Complainant informed that breaking noise was heard at his/her residence (near Cha Kwo Ling Main Road) from the ground during 3-4 a.m. on 17 Jul and 18 Jul 2021.	Noise	<ul style="list-style-type: none"> • The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side on the evening time and night-time of the date of complaint are considered as one of the potential noise sources of the ground borne noise nuisance. • A valid CNP was hold and the construction activities being taken were complied with the relevant CNP. • Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise • In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. • Contractor is recommended to 	Closed
		27 July 2021	Complainant further informed that they continued to hear underground breaking noise during 3-5 a.m. on 27 July 2021.			

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					continue to strictly follow the requirements in the relevant CNP. <ul style="list-style-type: none"> • According to the condition 3.d point 5 of the CNP (GW-RE0399-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. 	
Complaint #N06	Portion T1	03-Nov-2021	Complainant informed that underground breaking noise was heard at his/her residence (near Cha Kwo Ling Main Road) at about 10 p.m. on 03 Nov 2021. Also, the complainant further informed that recently they continued to hear underground breaking noise which had caused serious noise nuisance to the residents.	Noise	<ul style="list-style-type: none"> • No major construction noise related environmental deficiency was identified during ad-hoc inspection carried out by ET, RE and the Contractor representative on 12 November 2021. • The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side on the evening time and night-time of the date of complaint are considered as one of the potential noise sources of the ground borne noise nuisance. 	Closed

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N06	Portion T1	25-Nov-2021	<p>Follow up complaint from the same complainant which informed that there was still ground bound noise nuisance after 10 p.m occasionally.</p> <p>The complainant further requested if the relevant works that may contribute to ground bound noise nuisance could be stopped after 10 p.m.</p>	Noise	<ul style="list-style-type: none"> • A valid CNP was hold and the investigation is still undertaken in order to investigate the construction activities being taken were complied with the relevant CNP. • Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise • In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. • Contractor is recommended to continue to strictly follow the requirements in the relevant CNP. • According to the condition 3.d point 5 of the CNP (GW-RE1035-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. 	Closed

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N07	Portion T1	17-Feb-22	Complainant informed that noise from drilling activities near Tin Hau Temple was perceived all day.	Noise	<ul style="list-style-type: none"> The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side are considered as one of the potential noise sources of the ground borne noise nuisance. A valid CNP was hold and the construction activities being taken were complied with the relevant CNP. Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide 	Closed
		24-March-22	Follow up complaint from the same complainant was received and he/she informed that the day time ground-borne noise nuisance had deteriorated this week.			

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
		12-April-22	3 rd complaint from the same complainant was received again, he/ she complained that his/ her family were affected by the noise from construction site of T2 at the night-time period and felt no improvement on these issues.		regularly maintenance for PMEs. <ul style="list-style-type: none"> • Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP. • According to the condition 3.d point 5 of the CNP (GW-RE1201-21, GW-RE0199-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. 	
Complaint #N08	Portion T1	19-Oct-22	Complainant informed that the ground borne noise was heard at his/her residence (near Cha Kwo Ling Main Road) everyday, including the public holiday. Also, the complainant further informed that recently they continued to hear ground borne noise which had caused serious noise nuisance to the residents	Noise	<ul style="list-style-type: none"> • A valid CNP was hold and construction activities being taken were complied with the relevant CNP • Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise • In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide 	Closed

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					regularly maintenance for PMEs. <ul style="list-style-type: none"> • Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP. • According to the condition 3.d point 5 of the CNP (GW-RE0997-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received 	
Complaint #N09	Portion T1	28-Oct-22	Complainant informed that the underground breaking noise was heard at her residence (near Cha Kwo Ling Main Road) after the blasting work every day.	Noise	<ul style="list-style-type: none"> • A valid CNP was hold and construction activities being taken were complied with the relevant CNP • Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise • In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. 	Closed

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					<ul style="list-style-type: none"> • Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP. • According to the condition 3.d point 5 of the CNP (GW-RE0997-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received 	
Complaint #N11	Portion T1 & Portion V	11th August 2023	Complainant informed that there was a noise nuisance from construction work between 8 am and 7 pm, causing an impact on the residents. -	Noise	<ul style="list-style-type: none"> • A valid CNP was hold and construction activities being taken were complied with the relevant CNP • The contractor has taken steps to address noise concerns by implementing noise control measures such as erecting noise barriers and using a hydraulic breaker equipped with a noise muffler. • In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the 	Closed

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					less sensitive hours and provide regularly maintenance for PMEs. <ul style="list-style-type: none"> • Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP. • According to the condition 3.d point 5 of the CNP (GW-RE0603-23), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received 	
		23rd August 2023	The complainant informed that there were vibrations caused by the works in CKL Tunnel on 21 August 2023. They stated that their units are temporary housing with certain risks involved and requested an explanation for the project as well as appropriate actions to be taken		<ul style="list-style-type: none"> • A valid CNP was hold and construction activities being taken were complied with the relevant CNP • The contractor has taken steps to address noise concerns by implementing noise control measures such as erecting noise barriers and using a hydraulic breaker equipped with a noise muffler. • In addition, the Contractor should 	Closed

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					<p>still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs.</p> <ul style="list-style-type: none">• Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP.• According to the condition 3.d point 5 of the CNP (GW-RE0603-23), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received	
		6th September 2023	EPD received a complaint from a resident of Cha Kwo Ling Village regarding vibrations caused by the construction works of the T2 project on 5 September 2023. The complainant stated that these vibrations are affecting House No. 78 in the village.	Noise	<ul style="list-style-type: none">• A valid CNP was hold and construction activities being taken were complied with the relevant CNP• The weekly noise monitoring and additional noise assessments have verified that the noise levels remain within the set limits. Moreover, the ground borne noise measurements	Closed

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					<p>data suggests that the noise levels are well within the criteria outlined in the TM.</p> <ul style="list-style-type: none"> • The contractor has taken steps to address noise concerns by implementing noise control measures such as erecting noise barriers and using a hydraulic breaker equipped with a noise muffler. • In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. • Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP. • According to the condition 3.d point 5 of the CNP (GW-RE0973-23), the 	

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					<p>immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received</p>	
Complaint #N14	Portion T1	11th September 2024	The complainant stated that noise nuisance was alleviated before but the noise recurred again which had affected her health.	Noise	<ul style="list-style-type: none"> • No violation of the NMP was recorded as the numbers and types of PMEs operated during the period of complaint comply with the latest NMP. • The weekly noise monitoring and additional noise assessments have verified that the noise levels remain within the set limits. Moreover, the ground borne noise measurements data suggests that the noise levels are well within the criteria outlined in the TM. • The contractor has taken steps to address noise concerns by implementing noise 	Closed

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					<p>control measures such as covering all the noisy operating PME/equipment with silencer and noise enclosure.</p> <ul style="list-style-type: none">• In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs.• The Contractor is recommended to strictly follow the conditions and requirements of the valid NMP and ensure the construction activities being taken were complied with the relevant NMP.	

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
L01	Portion Q1	18th October 2024	<p>EPD received complaint referred by CE office against the light nuisance and Dark Smoke from the barges berthed near Laguna City, Lam Tin. EPD’s inspection on 17 Oct 2024 noticed some barges anchored outside the seafront of T2 construction site with their floodlights turned on. And this may be the source of the light nuisance complaint.</p>	Light and Air	<ul style="list-style-type: none"> • The night work operation is under valid permit, lighting at Portion Q1 area including all PME was turned off before 11pm. • Micro-Ringelmann Chart produced by the Marine Department was used to check the emission from the barge and no dark smoke is emitted when the barge is operating. • There was no direct evidence that any dark smoke was emitted while the barge is operating. • In addition, the Contractor should still maintain good site practices, such as turn off unnecessary lighting and adjust the angle of lighting to reduce light nuisance to public. • The Contractor is recommended to conduct regular maintenance for all Powered Mechanical Equipment to prevent dark smoke emission. 	Closed

APPENDIX N
SUMMARY OF EXCEEDANCE

Appendix N – Summary of Exceedance

Reporting Period: October 2024

(A) Exceedance Report for Air Quality

No Action and no Limit Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

No Action/ Limit Level exceedance of 1hr TSP monitoring was recorded in this reporting month.

(B) Exceedance Report for Construction Noise

No Action Level exceedance was recorded due to the documented complaint in the reporting month.

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

(C) Exceedance Report for Landfill Gas

(NIL in the reporting month).

**APPENDIX O
TENTATIVE CONSTRUCTION
PROGRAMME**

























Activity ID	Activity Name	Dur	Start	Finish	2024		
					Oct	Nov	Dec
HKT2 P65Bis Programme DD 01Oct24							
Construction							
Trunk Road T2							
01 West Ventilation Building - WVB							
WVB - Remaining works after FSI							
External Works							
WVB1780	WVB - External Drainage (KFR side)	45	01-Oct-24*	14-Nov-24	WVB - External Drainage (KFR side)		
WVB1820	WVB - External Drainage (EVA side)	30	15-Nov-24	14-Dec-24	WVB - External Drainage (EVA side)		
Architectural Finishes							
WVB1790	WVB - Fins & Cladding (DPR side)	30	01-Oct-24*	30-Oct-24	WVB - Fins & Cladding (DPR side)		
WVB1800	WVB - Fins & Cladding (EVA side)	30	15-Nov-24	14-Dec-24	WVB - Fins & Cladding (EVA side)		
02 At-Grade Road - AGR							
Kiosk							
AGR1030	Kiosk - procurement, fabrication & delivery	83	15-Nov-24*	17-Feb-25	Kiosk - procurement, fabrication & delivery		
AGR - Road & Drainage works							
AGR1021	AGR - TCSS Provision CH5860-5962	40	07-Nov-24	18-Dec-24	AGR - TCSS Provision CH5860-5962		
AGR1050	AGR - WB Road Side Barrier	60	07-Nov-24	05-Jan-25	AGR - WB Road Side Barrier		
AGR1040	AGR - EB Drainage & Gully Installation	54	07-Nov-24	06-Jan-25	AGR - EB Drainage & Gully Installation		
03 Depressed Road - DPR							
DPR - Structure Works							
DPR - Remaining Structure							
MJ							
A229450060	Remaining Top slab structure at Portal (2 pours)	30	15-Nov-24	14-Dec-24	Remaining Top slab structure at Portal (2 pours)		
DPR - Road Works							
Temporary Platform Removal							
DPR10000	DPR - Temporary Platform removal	45	01-Oct-24	14-Nov-24	DPR - Temporary Platform removal		
Street Furniture							
DPR10020	DPR - EB Road Barrier	47	15-Nov-24	31-Dec-24	DPR - EB Road Barrier		
DPR10090	DPR - WB Road Barrier	47	15-Nov-24	31-Dec-24	DPR - WB Road Barrier		
Rising Main							
A229449960	Rising Main Steel Tower	15	15-Nov-24	30-Nov-24	Rising Main Steel Tower		
DPR - Final Works							
GRC Panel							
DPR10040	DPR - GRC Panel installation	181	15-Nov-24	14-May-25	DPR - GRC Panel installation		
05 Supporting Underground Structure - SUS							
SUS - Tunnel Structure Works							
Eastbound Structure							
EB Skin Wall							
Crown							
A229448470	EB SUS - Skin Wall - Crown Level Bay 9	8	01-Oct-24	08-Oct-24	EB SUS - Skin Wall - Crown Level Bay 9		
SUS - Tunnel Civil Works							
Eastbound TCW							
EB Fireboard							
Crown level							
A229447820	SUS - EB - Fire Board - Tunnel crown (skin wall)	6	09-Oct-24	15-Oct-24	SUS - EB - Fire Board - Tunnel crown (skin wall)		
A229446330	EB SUS - E&M brackets NCPS	21	01-Oct-24*	21-Oct-24	EB SUS - E&M brackets NCPS		
SUS10070	SUS EB - TCSS provision	24	22-Oct-24	14-Nov-24	SUS EB - TCSS provision		
EB Road Barrier							
SUS10060	SUS EB - Road Barrier	45	22-Oct-24	05-Dec-24*	SUS EB - Road Barrier		
Westbound TCW							
WB E&M brackets							
A229446310	WB SUS - E&M brackets NCPS	24	01-Oct-24	24-Oct-24	WB SUS - E&M brackets NCPS		

- ◆ Milestones
- Planned Bar
- Actual Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron
Three Months Rolling Programme (Oct24-Dec24)



Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish	2024		
					Oct	Nov	Dec
WB TCSS provision							
SUS10090	SUS WB - TCSS provision	24	25-Oct-24	17-Nov-24			SUS WB - TCSS provision
WB Road Barrier							
SUS10080	SUS WB - Road Barrier	45	25-Oct-24	08-Dec-24			SUS WB - Road Barrier
06 Launching Shaft & C&C Tunnel - LSCC							
LSCC - Structure works							
Cut & Cover Tunnel							
C&C OHVD							
LSCC10215	C&C EB OHVD - Pour 2 (6m)	15	31-Oct-24	14-Nov-24			C&C EB OHVD - Pour 2 (6m)
LSCC10220	C&C EB OHVD - Pour 3 (5m)	15	15-Nov-24	29-Nov-24			C&C EB OHVD - Pour 3 (5m)
Launching Shaft							
Late Stitch/C&C							
LSCC10280	Late Stitch/C&C - Above RL headwall	10	21-Oct-24	30-Oct-24			Late Stitch/C&C - Above RL headwall
LSCC10290	Late Stitch/C&C - Roof Slab + falsework removal	30	31-Oct-24	29-Nov-24			Late Stitch/C&C - Roof Slab + falsework removal
Late Stitch/TSS							
LSCC10261	Falsework removal	7	01-Oct-24	07-Oct-24			Falsework removal
LSCC10271	Removal and Erection of Temporary steel deck	14	08-Oct-24	21-Oct-24			Removal and Erection of Temporary steel deck
LSCC10300	Late Stitch/TSS - BRL slab - Drilling & exposing coupler (1200nos)	18	22-Oct-24	08-Nov-24			Late Stitch/TSS - BRL slab - Drilling & exposing coupler (1200nos)
LSCC10310	Late Stitch/TSS - BRL slab - Rebar fixing	12	09-Nov-24	20-Nov-24			Late Stitch/TSS - BRL slab - Rebar fixing
LSCC10320	Late Stitch/TSS - BRL slab - Curved formwork	12	21-Nov-24	02-Dec-24			Late Stitch/TSS - BRL slab - Curved formwork
LS - Miscellaneous Structural Openings							
A229448610	Temporary cable procurement 4mth lead time (TBC)	68	01-Oct-24*	07-Dec-24			Temporary cable procurement 4mth lead time (TBC)
05 RC works at MMEP Opening for Service Galleries Works (subject to BYME &							
A229448650	Stage 1 - Narrow the opening to 3.5m*2m RC works	28	01-Nov-24*	28-Nov-24			Stage 1 - Narrow the opening to 3.5m*2m RC works
A229449020	Stage 1a - Emergency staircase corridor RC works	21	29-Nov-24	19-Dec-24			Stage 1a - Emergency staircase corridor RC works
LSCC - Backfilling & Dwall Dismantling							
A229447770	Stage 2a subject to RC completion (from -10.5mPD to +1.0mPD)	134	01-Oct-24*	11-Feb-25			
07 Tunnel Sub-sea (TSS)							
Tunnel Advance Excavation - D&Br from CKL							
CKL1045	WB CKL - Additional excavation at Bulkhead location	31	01-Oct-24	31-Oct-24			WB CKL - Additional excavation at Bulkhead location
CKL1090	WB - Big Bulkhead wall rebuild	45	01-Nov-24*	15-Dec-24			WB - Big Bulkhead wall rebuild
Tunnel Excavation - TBM from Kai Tak							
Eastbound (EB) - TBM S1282							
TBM Tunnelling							
CP26-30							
EBTBM1260	EB TBM Tunnelling CH8632-8675 (Seawall section)	26	15-Oct-24	09-Nov-24			EB TBM Tunnelling CH8632-8675 (Seawall section)
EBTBM1270	EB TBM Tunnelling CH8675-8748 (Seawall section)	43	10-Nov-24	22-Dec-24			EB TBM Tunnelling CH8675-8748 (Seawall section)
Westbound (WB) - TBM S1281							
TBM Tunnelling							
CP26-31							
A229449562	WB TBM Tunnelling CH8776-8875 (Pilot tunnel section)	38	01-Oct-24	07-Nov-24			WB TBM Tunnelling CH8776-8875 (Pilot tunnel section)
A229449563	WB TBM Tunnelling CH8854-8975 (Pilot tunnel section)	39	08-Nov-24	16-Dec-24			WB TBM Tunnelling CH8854-8975 (Pilot tunnel section)
Tunnel Civil Works before TBM breakthrough							
Eastbound (EB)							
Temporary Services							
TBM slurry pipe relocation							
A229447670	TSS - EB NCPS Wall Pipe Relocation from CP22 to CP23	7	01-Oct-24	07-Oct-24			TSS - EB NCPS Wall Pipe Relocation from CP22 to CP23
Service Gallery							
CP21-26							
A229428552	EB TSS - Service Gallery up to CP 25	14	11-Nov-24	25-Nov-24			EB TSS - Service Gallery up to CP 25
Below Road Level Installation							
Corbel							
CP21-26							
A229415952	EB TSS - Corbel Structure up to CP24	9	28-Oct-24	06-Nov-24			EB TSS - Corbel Structure up to CP24
Road Barrier							

- ◆ Milestones
-  Planned Bar
-  Actual Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron
Three Months Rolling Programme (Oct24-Dec24)



Date	Revision	Checked	Approved
------	----------	---------	----------

Activity ID	Activity Name	Dur	Start	Finish	2024		
					Oct	Nov	Dec
NCPS							
TC10150	EB TSS - Road Barrier NCPS from CP22 to CP23	8	08-Oct-24	15-Oct-24	EB TSS - Road Barrier NCPS from CP22 to CP23		
Westbound (WB)							
Service Gallery							
CP21-26							
A229445900	WB TSS - Service Gallery up to CP 26	12	01-Oct-24	12-Oct-24	WB TSS - Service Gallery up to CP 26		
CP26-31							
A229424680	WB TSS - Service Gallery up to CP 27	8	08-Nov-24	15-Nov-24	WB TSS - Service Gallery up to CP 27		
Below Road Level Installation							
Corbel							
CP21-26							
A229415232	WB TSS - Corbel Structure & Curing up to CP26	15	07-Nov-24	23-Nov-24	WB TSS - Corbel Structure & Curing up to CP26		
A229415242	WB TSS - Corbel Structure & Curing up to CP27	15	23-Nov-24	09-Dec-24	WB TSS - Corbel Structure & Curing up to CP27		
OHVD							
CP26-30							
TC3120	WB TSS - OHVD up to CP25	4	17-Oct-24	20-Oct-24	WB TSS - OHVD up to CP25		
TC3130	WB TSS - OHVD up to CP26	4	23-Nov-24	27-Nov-24	WB TSS - OHVD up to CP26		
Fire Board - Tunnel Crown							
D12545	WB TSS - Fire board - Tunnel Crown up to CP26	8	09-Oct-24	16-Oct-24	WB TSS - Fire board - Tunnel Crown up to CP26		
D12555	WB TSS - Fire board - Tunnel Crown up to CP27	8	17-Oct-24	24-Oct-24	WB TSS - Fire board - Tunnel Crown up to CP27		
D12565	WB TSS - Fire board - Tunnel Crown up to CP28	8	25-Oct-24	01-Nov-24	WB TSS - Fire board - Tunnel Crown up to CP28		
Fire Board - Road level							
A229446450	WB TSS - Fire Board - Road level up to CP23	14	01-Oct-24	14-Oct-24	WB TSS - Fire Board - Road level up to CP23		
Road Barrier							
A229447840	WB TSS - Road Barrier CPS up to CP25	7	16-Nov-24	23-Nov-24	WB TSS - Road Barrier CPS up to CP25		
A229447850	WB TSS - Road Barrier CPS up to CP26	7	23-Nov-24	30-Nov-24	WB TSS - Road Barrier CPS up to CP26		
E&M Brackets							
TC11060	WB TSS - E&M Brackets up to CP23	6	15-Oct-24	20-Oct-24	WB TSS - E&M Brackets up to CP23		
08 CKL Tunnel							
Tunnel Civil Works before TBM breakthrough							
Eastbound (EB)							
EB Type A D&Br							
MIMEP							
A229444700	EB Type A Dr&BI - MIMEP module installation	40	02-Oct-24	18-Nov-24	EB Type A Dr&BI - MIMEP module installation		
09 Cross Passages							
Cross Passages @ TSS (CP7 to CP29)							
CP25 to CP29							
CP25							
TD0100	CP25 - EB - Tympanum Civil works CH8489	27	25-Nov-24	22-Dec-24	CP25 - EB - Tympanum Civil works CH8489		
CP26							
TD0210	CP26 - WB - Tympanum Civil works CH8588	27	13-Oct-24	08-Nov-24	CP26 - WB - Tympanum Civil works CH8588		
Cross Passages @ CKL Tunnel (CP30 to CP33)							
10 East Ventilation Building - EVB							
Structure Works							
LG2/F OHVD Slab							
EVB1290	EVB - RC works (LG2/F; OHVD S5 & W2)	18	25-Oct-24	11-Nov-24	EVB - RC works (LG2/F; OHVD S5 & W2)		
G/F Walls & R/F Slab							
EVB1280	EVB - Removal of Tower Crane TC1 (*scheduled on 02Oct24)	4	16-Oct-24*	20-Oct-24	EVB - Removal of Tower Crane TC1 (*scheduled on 02Oct24)		
EVB1260	EVB - RC works (R/F slab - S5)	11	16-Oct-24	27-Oct-24	EVB - RC works (R/F slab - S5)		
R/F Walls & UR/F Slab							
EVB1480	EVB - RC works (R/F wall & UR/F slab)	117	20-Oct-24	14-Feb-25	EVB - RC works (R/F wall & UR/F slab)		
ABWF Works							
ABWF - Door & Louvre installation							
EVB1510	EVB - Door installation	107	01-Nov-24*	15-Feb-25	EVB - Door installation		
EVB1530	EVB - Louvre installation	137	15-Oct-24*	28-Feb-25	EVB - Louvre installation		

- ◆ Milestones
- Planned Bar
- Actual Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron
Three Months Rolling Programme (Oct24-Dec24)



Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish	2024		
					Oct	Nov	Dec
Footbridge FB03							
VO - Remedial works and Footing Construction							
EVB1640	VO - Footing construction	30	18-Oct-24	16-Nov-24	VO - Footing construction		
Original Scope							
EVB1385	FB03 - Bearing installation (subject to Footing readiness on LSJV side)	12	17-Nov-24	28-Nov-24	FB03 - Bearing installation (subject to Footing readiness on LSJV side)		
EVB1380	FB-03 - Bridge Deck Delivery & Assembly (subject to Footing read)	38	17-Nov-24	24-Dec-24	FB-03 - Brid		
Statutory Procedures							
GBP & VAC submission							
EVB1570	GBP Final amendment submission & approval	54	01-Oct-24*	23-Nov-24	GBP Final amendment submission & approval		
EVB1580	VAC submission & 3 mth approval period by FSD	93	24-Nov-24	24-Feb-25			
Power Egerization							
EVB1395	CLP Cable Lead in connection + cable laying + T&C	31	14-Nov-24	15-Dec-24	CLP Cable Lead in connection + ca		
Dangerous Goods Licenses							
EVB1310	Oil Tank & Genset Delivery and Installation	36	01-Oct-24	06-Nov-24	Oil Tank & Genset Delivery and Installation		
EVB1330	DG Licenses inspection	36	06-Nov-24	12-Dec-24	DG Licenses inspection		
Lift Installation							
EVB1430	Lift Shaft - T&C & LE5 submission	28	31-Oct-24	27-Nov-24	Lift Shaft - T&C & LE5 submission		
EVB1450	EMSD inspection & Issue Use Permit	12	28-Nov-24	09-Dec-24	EMSD inspection & Issue Use Permit		
FS Water Supply							
EVB1410	EVB - Final Watermain installation after given full access	24	27-Nov-24	20-Dec-24	EVB - Final Watermain		
11 Tunnel E&M Installation							
E&M - Cabling works							
SUS to CKL							
Eastbound							
E&MC1080	EB TSS - CP11-16 E&M installation	90	30-Oct-24*	27-Jan-25			
E&MC1010	EB SUS - E&M Installation	120	22-Oct-24	18-Feb-25			
Westbound							
E&MC1070	WB TSS - CP16-21 E&M installation	90	10-Nov-24	08-Feb-25			
E&MC1030	WB SUS - E&M Installation	120	25-Oct-24	21-Feb-25			
14 Projectwide Final Works							
Tunnel Cladding (VE Panel)							
Westbound							
Typical Subframe & Niche							
VE10060	VE Panel - Subframe - WB TSS CP7-11 CPS & NCPS	21	26-Nov-24*	16-Dec-24	VE Panel - Subframe - WB TSS		
Infrastructure Works							
05 Common Utility Enclosure (CUE) (KD-39)							
CUE at L10(N)							
CUE ABWF works							
CUE10480	Firedoor	12	02-Oct-24	15-Oct-24	Firedoor		
VO - Plantroom for CUE Sprinkler System							
Power Energization							
CUE10510	T&C	24	07-Oct-24	01-Nov-24	T&C		
Water Supply for Sprinkler System							
CUE10370	WVO 46 Part IV application & inspection	12	02-Oct-24	15-Oct-24	WVO 46 Part IV application & inspection		
CUE10430	Water Sampling Test (by WSD)	4	15-Oct-24	19-Oct-24	Water Sampling Test (by WSD)		
CUE10470	Watermeter Installation (by WSD)	2	19-Oct-24	22-Oct-24	Watermeter Installation (by WSD)		
Overall T&C and FSI							
CUE10530	Waiting Period	12	22-Oct-24	02-Nov-24	Waiting Period		
CUE10550	CUE FSI	6	03-Nov-24	08-Nov-24	CUE FSI		
CUE10551	Waiting Period for Issuance of Certificate	12	09-Nov-24	21-Nov-24	Waiting Period for Issuance of Certificate		
06 Road S20							
VO - Charging Station Run-in							
A229447410	Pavement and Finishing	16	16-Oct-24	31-Oct-24	Pavement and Finishing		
VO - KFR Watermain modification							

- ◆ Milestones
- Planned Bar
- Actual Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron
Three Months Rolling Programme (Oct24-Dec24)



Date	Revision	Checked	Approved
------	----------	---------	----------

Activity ID	Activity Name	Dur	Start	Finish	2024		
					Oct	Nov	Dec
A229448990	Carriageway - pipe installation (10m)	7	01-Oct-24	07-Oct-24		Carriageway - pipe installation (10m)	
A229449000	T&C and connection	14	08-Oct-24	21-Oct-24		T&C and connection	
A229449010	Reinstatement	7	22-Oct-24	28-Oct-24		Reinstatement	
07 Road L10(N)		49	12-Oct-24	30-Nov-24			
L10(N) Landscape (KD-26)		29	01-Nov-24	30-Nov-24			
LN10110	L10(N) - Landscape softwork (TBC)	29	01-Nov-24	30-Nov-24			L10(N) - Landscape softwork (TBC)
L10(N) Remaining works		21	12-Oct-24	02-Nov-24			
LN10100	Road L10N - Drainage T&C	21	12-Oct-24	02-Nov-24		Road L10N - Drainage T&C	
08 Road L10(S) & L18		92	01-Oct-24	31-Dec-24			
L10(S) & L18 Landscape (KD-24)		28	02-Oct-24	31-Oct-24			
A229445710	L10 (S) & L18 - Landscape softwork (TBC)	28	02-Oct-24*	31-Oct-24		L10 (S) & L18 - Landscape softwork (TBC)	
L10(S) & L18 Remaining works		92	01-Oct-24	31-Dec-24			
Miscellaneous road works		61	01-Nov-24	31-Dec-24			
A229448740	Street furniture & road signage	61	01-Nov-24*	31-Dec-24			
A229448760	L10 (S) & L18 - Road Lighting	61	01-Nov-24*	31-Dec-24			
Preparation for road opening		70	01-Oct-24	09-Dec-24			
A229448690	NAH Sewage Tapping Replacement Work - Part 3	21	01-Oct-24	21-Oct-24		NAH Sewage Tapping Replacement Work - Part 3	
A229448700	NAH Sewage Tapping Replacement Work - Part 4	21	22-Oct-24	11-Nov-24		NAH Sewage Tapping Replacement Work - Part 4	
A229448710	L10 (S) & L18 - Footpath reinstatement	14	12-Nov-24	25-Nov-24			L10 (S) & L18 - Footpath reinstatement
A229448711	L10 (S) & L18 - Diversion of public footpath	14	26-Nov-24	09-Dec-24			L10 (S) & L18 - Diversion of public footpath
Roadside Area adjacent to L10(S)		30	01-Nov-24	30-Nov-24			
Roadworks		30	01-Nov-24	30-Nov-24			
A229448810	Roadside Area adjacent to L10S - Road works	30	01-Nov-24*	30-Nov-24			Roadside Area adjacent to L10S - Road works
09 Footbridge FB-02 (KD-17 achieved)		61	01-Oct-24	30-Nov-24			
FB-02 Remaining works		61	01-Oct-24	30-Nov-24			
FB211100	Planter Drainboard installation	14	01-Oct-24*	14-Oct-24		Planter Drainboard installation	
FB211110	Soft landscape	28	15-Oct-24	11-Nov-24		Soft landscape	
FB211080	HyD VO - Drainage Enhancement	60	01-Oct-24*	29-Nov-24		HyD VO - Drainage Enhancement	
KF64 reinstatement		30	01-Nov-24	30-Nov-24			
FB211120	KF64 reinstatement - Canopy	30	01-Nov-24*	30-Nov-24			KF64 reinstatement - Canopy

- ◆ Milestones
- Planned Bar
- Actual Bar



Activity ID	Activity Name	Dur	Start	Finish	2024		2025
					Nov	Dec	Jan
HKT2 P65Bis Programme DD 01Nov24		537	26-Nov-23 A	15-May-25			
Construction		537	26-Nov-23 A	15-May-25			
Trunk Road T2		537	26-Nov-23 A	15-May-25			
01 West Ventilation Building - WVB		151	01-Oct-24 A	28-Feb-25			
WVB - Remaining works after FSI		151	01-Oct-24 A	28-Feb-25			
External Works		121	01-Oct-24 A	29-Jan-25			
WVB1780	WVB - External Drainage (KFR side)	46	01-Oct-24 A	15-Nov-24	WVB - External Drainage (KFR side)		
WVB1820	WVB - External Drainage (EVA side)	30	16-Nov-24	15-Dec-24	WVB - External Drainage (EVA side)		
WVB1770	WVB - External Drainage (DPR side)	45	16-Dec-24	29-Jan-25	WVB - External Drainage (DPR side)		
Architectural Finishes		136	01-Oct-24 A	13-Feb-25			
WVB1790	WVB - Fins & Cladding (DPR side)	45	01-Oct-24 A	14-Nov-24	WVB - Fins & Cladding (DPR side)		
WVB1800	WVB - Fins & Cladding (EVA side)	30	16-Nov-24	15-Dec-24	WVB - Fins & Cladding (EVA side)		
WVB1760	WVB - Fins & Cladding (KFR side)	30	16-Dec-24	14-Jan-25	WVB - Fins & Cladding (KFR side)		
WVB1840	WVB - External Painting	30	15-Jan-25	13-Feb-25	WVB - External Painting		
Final works		59	01-Jan-25	28-Feb-25			
WVB1900	WVB - Landscaping works	59	01-Jan-25*	28-Feb-25	WVB - Landscaping works		
02 AtGrade Road -AGR		248	15-Jun-24 A	17-Feb-25			
Kiosk		75	15-Nov-24	17-Feb-25			
AGR1030	Kiosk - procurement, fabrication & delivery	75	15-Nov-24*	17-Feb-25	Kiosk - procurement, fabrication & delivery		
AGR - Road & Drainage works		238	15-Jun-24 A	07-Feb-25			
AGR1020	AGR - WB Drainage & Gully Installation	145	15-Jun-24 A	05-Dec-24	AGR - WB Drainage & Gully Installation		
AGR1021	AGR - TCSS Provision CH5860-5962	36	06-Dec-24	20-Jan-25	AGR - TCSS Provision		
AGR1050	AGR - WB Road Side Barrier	60	06-Dec-24	03-Feb-25	AGR - WB Road Side Barrier		
AGR1040	AGR - EB Drainage & Gully Installation	49	06-Dec-24	07-Feb-25	AGR - EB Drainage & Gully Installation		
03 Depressed Road - DPR		227	01-Oct-24 A	15-May-25			
DPR - Structure Works		30	16-Nov-24	15-Dec-24			
DPR - Remaining Structure		30	16-Nov-24	15-Dec-24			
MJ		30	16-Nov-24	15-Dec-24			
A229450060	Remaining Top slab structure at Portal (2 pours)	30	16-Nov-24	15-Dec-24	Remaining Top slab structure at Portal (2 pours)		
DPR - Road Works		152	01-Oct-24 A	01-Mar-25			
Temporary Platform Removal		46	01-Oct-24 A	15-Nov-24			
DPR10000	DPR - Temporary Platform removal	46	01-Oct-24 A	15-Nov-24	DPR - Temporary Platform removal		
Sign Gantry		59	02-Jan-25	01-Mar-25			
DPR10030	DPR - Sign Gantry & Civil Provision	59	02-Jan-25	01-Mar-25	DPR - Sign Gantry & Civil Provision		
Street Furniture		47	16-Nov-24	01-Jan-25			
DPR10020	DPR - EB Road Barrier	47	16-Nov-24	01-Jan-25	DPR - EB Road Barrier		
DPR10090	DPR - WB Road Barrier	47	16-Nov-24	01-Jan-25	DPR - WB Road Barrier		
Rising Main		84	16-Nov-24	28-Feb-25			
A229449960	Rising Main Steel Tower	14	16-Nov-24	02-Dec-24	Rising Main Steel Tower		
A229449970	Rising Main Pillar Box	16	02-Dec-24	20-Dec-24	Rising Main Pillar Box		
A229426391	DPR - E&M - Sump pit pumps and watermain installation	54	20-Dec-24	28-Feb-25	DPR - E&M - Sump pit pumps and watermain installation		
DPR - Final Works		181	16-Nov-24	15-May-25			
GRC Panel		181	16-Nov-24	15-May-25			
DPR10040	DPR - GRC Panel installation	181	16-Nov-24	15-May-25	DPR - GRC Panel installation		
05 Supporting Underground Structure - SUS		45	01-Nov-24	15-Dec-24			
SUS - Tunnel Civil Works		45	01-Nov-24	15-Dec-24			
Eastbound TCW		45	01-Nov-24	15-Dec-24			
EB TCSS provision		24	01-Nov-24	24-Nov-24			
SUS10070	SUS EB - TCSS provision	24	01-Nov-24	24-Nov-24	SUS EB - TCSS provision		
EB Road Barrier		45	01-Nov-24	15-Dec-24			
SUS10060	SUS EB - Road Barrier	45	01-Nov-24	15-Dec-24*	SUS EB - Road Barrier		
Westbound TCW		45	01-Nov-24	15-Dec-24			
WB TCSS provision		24	01-Nov-24	24-Nov-24			
SUS10090	SUS WB - TCSS provision	24	01-Nov-24	24-Nov-24	SUS WB - TCSS provision		

- ◆ Milestones
- Planned Bar
- Actual Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron
Three Months Rolling Programme (Nov24-Jan25)



Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish	2024		2025
					Nov	Dec	Jan
WB Road Barrier							
SUS10080	SUS WB - Road Barrier	45	01-Nov-24	15-Dec-24	SUS WB - Road Barrier		
06 Launching Shaft & C&C Tunnel - LSCC							
LSCC - Structure works							
Cut & Cover Tunnel							
C&C OHVD							
LSCC10215	C&C EB OHVD - Pour 2 (6m)	15	01-Nov-24	15-Nov-24	C&C EB OHVD - Pour 2 (6m)		
LSCC10220	C&C EB OHVD - Pour 3 (5m)	15	16-Nov-24	30-Nov-24	C&C EB OHVD - Pour 3 (5m)		
LSCC10235	C&C WB OHVD - Pour 2 (6m)	15	01-Dec-24	15-Dec-24	C&C WB OHVD - Pour 2 (6m)		
LSCC10240	C&C WB OHVD - Pour 3 (5m)	15	16-Dec-24	30-Dec-24	C&C WB OHVD - Pour 3 (5m)		
Launching Shaft							
LS - Top Slab							
A229448530	LS - EB Top slab Pour 3	182	07-May-24 A	04-Nov-24	LS - EB Top slab Pour 3		
Late Stitch/C&C							
LSCC10290	Late Stitch/C&C - Roof Slab + falsework removal	36	25-Oct-24 A	29-Nov-24	Late Stitch/C&C - Roof Slab + falsework removal		
LSCC10291	Late Stitch/C&C - Massfill breaking	7	30-Nov-24	06-Dec-24	Late Stitch/C&C - Massfill breaking		
LSCC10330	Late Stitch/C&C - Base Slab to Road Slab (NCPS)	14	07-Dec-24	20-Dec-24	Late Stitch/C&C - Base Slab to Road Slab (NCPS)		
LSCC10340	Late Stitch/C&C - NCPS Walls + Formwork removal	13	21-Dec-24	02-Jan-25	Late Stitch/C&C - NCPS Walls + Formwork removal		
LSCC10342	Road Diversion	3	03-Jan-25	05-Jan-25	Road Diversion		
LSCC10343	Late Stitch/C&C - Massfill breaking	7	06-Jan-25	12-Jan-25	Late Stitch/C&C - Massfill breaking		
LSCC10350	Late Stitch/C&C - Base Slab to Road Slab (CPS)	18	13-Jan-25	30-Jan-25	Late Stitch/C&C - Base Slab to Road Slab (CPS)		
Late Stitch/TSS							
LSCC10320	Late Stitch/TSS - BRL slab - Curved formwork	65	28-Sep-24 A	01-Dec-24	Late Stitch/TSS - BRL slab - Curved formwork		
LSCC10369	Preparation works and UU diversion at NCPS	7	02-Dec-24	08-Dec-24	Preparation works and UU diversion at NCPS		
LSCC10370	Late Stitch/TSS - NCPS Curved Wall	21	09-Dec-24	29-Dec-24	Late Stitch/TSS - NCPS Curved Wall		
LSCC10380	Late Stitch/TSS - CPS Curved Middle Wall	21	30-Dec-24	19-Jan-25	Late Stitch/TSS - CPS Curved Middle Wall		
LS - Miscellaneous Structural Openings							
01 Massfill at cable trench (subject to temporary cable relocation)							
A229448630	Clearance and Massfill the trench	14	13-Dec-24	26-Dec-24	Clearance and Massfill the trench		
02 Road slab opening & Drainage works (subject to temporary cable relocation)							
A229448640	RC Slab, Manhole, drainage pipe construction and massfill	42	01-Nov-24	12-Dec-24	RC Slab, Manhole, drainage pipe construction and massfill		
04 In situ SG at LS/TSS connection (subject to temporary works to maintain tunn)							
A229448570	EB & WB in situ Service Gallery CPS - Part 1	7	20-Jan-25	26-Jan-25	EB & WB in situ Service Gallery CPS - Part 1		
A229448580	EB & WB in situ Service Gallery CPS - Part 2	7	27-Jan-25	02-Feb-25	EB & WB in situ Service Gallery CPS - Part 2		
05 RC works at MMEP Opening for Service Galleries Works (subject to BYME &)							
A229448650	Stage 1 - Narrow the opening to 3.5m*2m RC works	28	01-Nov-24*	28-Nov-24	Stage 1 - Narrow the opening to 3.5m*2m RC works		
A229449020	Stage 1a - Emergency staircase corridor RC works	21	29-Nov-24	19-Dec-24	Stage 1a - Emergency staircase corridor RC works		
LSCC - Backfilling & Dwall Dismantling							
A229447770	Stage 2a subject to RC completion (from -10.5mPD to +1.0mPD)	135	01-Oct-24 A	12-Feb-25	Stage 2a subject to RC completion (from -10.5mPD to +1.0mPD)		
07 Tunnel Sub-sea (TSS)							
Tunnel Advance Excavation - D&Br from CKL							
CKL1090	WB - Big Bulkhead wall rebuild	46	16-Oct-24 A	30-Nov-24	WB - Big Bulkhead wall rebuild		
CKL1100	WB - Civil Provision	32	01-Dec-24	01-Jan-25	WB - Civil Provision		
Tunnel Excavation - TBM from Kai Tak							
Eastbound (EB) - TBM S1282							
TBM Tunnelling							
CP21-26							
EBTBM1250	EB TBM stop (restart target under review due to uncertainty)	265	11-Feb-24 A	01-Nov-24	EB TBM stop (restart target under review due to uncertainty)		
CP26-30							
EBTBM1260	EB TBM Tunnelling CH8632-8675 (Seawall section)	26	02-Nov-24	27-Nov-24	EB TBM Tunnelling CH8632-8675 (Seawall section)		
EBTBM1270	EB TBM Tunnelling CH8675-8748 (Seawall section)	43	28-Nov-24	09-Jan-25	EB TBM Tunnelling CH8675-8748 (Seawall section)		
EBTBM1280	EB TBM Tunnelling CH8748-8775 (Pilot TBM Section)	10	10-Jan-25	19-Jan-25	EB TBM Tunnelling CH8748-8775 (Pilot TBM Section)		
EBTBM1290	EB TBM Tunnelling CH8775-8831 (Pilot tunnel section)	22	20-Jan-25	10-Feb-25	EB TBM Tunnelling CH8775-8831 (Pilot tunnel section)		
Westbound (WB) - TBM S1281							
TBM Tunneling							

- ◆ Milestones
- Planned Bar
- Actual Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron
Three Months Rolling Programme (Nov24-Jan25)



Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish	2024		2025
					Nov	Dec	Jan
					CP26-31		
A229449562	WB TBM Tunnelling CH8776-8875 (Pilot tunnel section)	20	01-Nov-24 A	20-Nov-24	WB TBM Tunnelling CH8776-8875 (Pilot tunnel section)		
A229449563	WB TBM Tunnelling CH8854-8975 (Pilot tunnel section)	39	21-Nov-24	29-Dec-24	WB TBM Tunnelling CH8854-8975 (Pilot tunnel section)		WB TBM Tunnelling CH8854-8975 (Pilot tunnel section)
A229449564	WB TBM Tunnelling CH8975-9068 (Pilot tunnel section)	36	30-Dec-24	03-Feb-25	WB TBM Tunnelling CH8975-9068 (Pilot tunnel section)		WB TBM Tunnelling CH8975-9068 (Pilot tunnel section)
Tunnel Civil Works before TBM breakthrough		440	26-Nov-23 A	07-Feb-25			
Eastbound (EB)		440	26-Nov-23 A	07-Feb-25			
Temporary Services		7	08-Jan-25	15-Jan-25			
TBM slurry pipe relocation		7	08-Jan-25	15-Jan-25			
A229447680	TSS - EB NCPS Wall Pipe Relocation from CP23 to CP24	7	08-Jan-25	15-Jan-25			TSS - EB NCPS Wall Pipe Relocation
Service Gallery		259	08-Mar-24 A	06-Feb-25			
CP21-26		259	08-Mar-24 A	06-Feb-25			
A229446190	EB TSS - ISIG Stoppage at CH8446	204	08-Mar-24 A	28-Nov-24	EB TSS - ISIG Stoppage at CH8446		
A229428552	EB TSS - Service Gallery up to CP 25	13	28-Nov-24	12-Dec-24	EB TSS - Service Gallery up to CP 25		
A229428562	EB TSS - Service Gallery up to CP 26	13	20-Jan-25	06-Feb-25			EB TSS - Service Gallery up to CP 26
Below Road Level Installation		28	01-Nov-24	28-Nov-24			
Corbel		440	26-Nov-23 A	07-Feb-25			
CP21-26		440	26-Nov-23 A	07-Feb-25			
A229415982	EB TSS - Corbel Stoppage at CP23	368	26-Nov-23 A	27-Nov-24	EB TSS - Corbel Stoppage at CP23		
A229415952	EB TSS - Corbel Structure up to CP24	8	28-Nov-24	06-Dec-24	EB TSS - Corbel Structure up to CP24		
A229415962	EB TSS - Corbel Structure up to CP25	8	27-Jan-25	07-Feb-25			EB TSS - Corbel Structure up to CP25
OHVD		14	20-Jan-25	02-Feb-25			
TC305	EB - ISSG Transfer & Reassembly (subject to ISSG availability)	14	20-Jan-25*	02-Feb-25			EB - ISSG Transfer & Reassembly (subject to ISSG availability)
Road Barrier		89	01-Nov-24	28-Jan-25			
CPS		5	23-Jan-25	28-Jan-25			
TC11120	EB TSS - Road Barrier CPS up to CP24	5	23-Jan-25	28-Jan-25			EB TSS - Road Barrier CPS up to CP24
NCPS		84	01-Nov-24	23-Jan-25			
TC10150	EB TSS - Road Barrier NCPS from CP22 to CP23	8	01-Nov-24	08-Nov-24	EB TSS - Road Barrier NCPS from CP22 to CP23		
TC10160	EB TSS - Road Barrier NCPS up to CP24	8	15-Jan-25	23-Jan-25			EB TSS - Road Barrier NCPS up to CP24
Westbound (WB)		269	13-May-24 A	06-Feb-25			
Temporary Services		7	08-Jan-25	15-Jan-25			
TBM slurry pipe relocation		7	08-Jan-25	15-Jan-25			
A229447540	TSS - WB NCPS Wall Pipe Relocation from CP23 to CP24	7	08-Jan-25	15-Jan-25			TSS - WB NCPS Wall Pipe Relocation
Service Gallery		47	21-Nov-24	06-Jan-25			
CP26-31		47	21-Nov-24	06-Jan-25			
A229424680	WB TSS - Service Gallery up to CP 27	8	21-Nov-24	28-Nov-24	WB TSS - Service Gallery up to CP 27		
A229446380	WB TSS - Service Gallery up to CP 28	8	30-Dec-24	06-Jan-25			WB TSS - Service Gallery up to CP 28
Below Road Level Installation		28	01-Nov-24	28-Nov-24			
Corbel		69	29-Nov-24	06-Feb-25			
CP21-26		69	29-Nov-24	06-Feb-25			
A229415242	WB TSS - Corbel Structure & Curing up to CP27	14	29-Nov-24	14-Dec-24	WB TSS - Corbel Structure & Curing up to CP27		
A229424160	WB TSS - Corbel Structure & Curing up to CP28	14	07-Jan-25	22-Jan-25			WB TSS - Corbel Structure & Curing up to CP28
TC11200	WB TSS - Corbel Structure & Curing up to CH8850	15	22-Jan-25	06-Feb-25			WB TSS - Corbel Structure & Curing up to CH8850
OHVD		70	17-Nov-24	26-Jan-25			
CP26-30		70	17-Nov-24	26-Jan-25			
TC3120	WB TSS - OHVD up to CP25	4	17-Nov-24	20-Nov-24	WB TSS - OHVD up to CP25		
TC3130	WB TSS - OHVD up to CP26	4	25-Nov-24	28-Nov-24	WB TSS - OHVD up to CP26		
TC3140	WB TSS - OHVD up to CP27	4	14-Dec-24	18-Dec-24	WB TSS - OHVD up to CP27		
TC3150	WB TSS - OHVD up to CP28	4	22-Jan-25	26-Jan-25			WB TSS - OHVD up to CP28
Fire Board - Tunnel Crown		93	01-Sep-24 A	02-Dec-24			
D12535	WB TSS - Fire board - Tunnel Crown up to CP25	69	01-Sep-24 A	08-Nov-24	WB TSS - Fire board - Tunnel Crown up to CP25		
D12545	WB TSS - Fire board - Tunnel Crown up to CP26	8	09-Nov-24	16-Nov-24	WB TSS - Fire board - Tunnel Crown up to CP26		
D12555	WB TSS - Fire board - Tunnel Crown up to CP27	8	17-Nov-24	24-Nov-24	WB TSS - Fire board - Tunnel Crown up to CP27		
D12565	WB TSS - Fire board - Tunnel Crown up to CP28	8	25-Nov-24	02-Dec-24	WB TSS - Fire board - Tunnel Crown up to CP28		
Fire Board - Road level		14	15-Jan-25	29-Jan-25			
A229446460	WB TSS - Fire Board - Road level up to CP24	14	15-Jan-25	29-Jan-25			WB TSS - Fire Board - Road level up to CP24

- ◆ Milestones
- Planned Bar
- Actual Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron
Three Months Rolling Programme (Nov24-Jan25)



Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish	2024		2025
					Nov	Dec	Jan
Road Barrier							
A229447850	WB TSS - Road Barrier CPS up to CP26	6	01-Nov-24	09-Nov-24	WB TSS - Road Barrier CPS up to CP26		
CPS							
TC10800	WB TSS - Road Barrier CPS at CH8381	172	13-May-24 A	01-Nov-24	WB TSS - Road Barrier CPS at CH8381		
NCPS							
TC11000	WB TSS - Road Barrier NCPS at CH8318	165	20-May-24 A	01-Nov-24	WB TSS - Road Barrier NCPS at CH8318		
E&M Brackets							
TC11060	WB TSS - E&M Brackets up to CP23	6	01-Nov-24	06-Nov-24	WB TSS - E&M Brackets up to CP23		
TC11010	WB TSS - E&M Brackets up to CP24	6	29-Jan-25	04-Feb-25			
08 CKL Tunnel							
Tunnel Structure before TBM breakthrough							
Eastbound (EB)							
EB Type C							
OHVD							
A2041	EB Type C - OHVD (16 bays @6m, 4d/bay + 30d formwork ass. &	78	12-Sep-24 A	14-Dec-24	EB Type C - OHVD (16 bays @6m, 4d/bay + 30d formwork ass. & dismantling)		
A2050	EB Type C - OHVD Formwork Dismantling	12	16-Dec-24	31-Dec-24	EB Type C - OHVD Formwork Dismantling		
Tunnel Civil Works before TBM breakthrough							
Eastbound (EB)							
EB Type C							
Barrier							
A229444520	EB - Type C - Road Barrier	24	02-Jan-25	01-Feb-25			
EB Type AD&Br							
MIMEP							
A229444700	EB Type A Dr&BI - MIMEP module installation	36	01-Nov-24	13-Dec-24	EB Type A Dr&BI - MIMEP module installation		
09 Cross Passages							
Cross Passages @ TSS (CP7 to CP29)							
CP25 to CP29							
CP25							
TD0100	CP25 - EB - Tympanum Civil works CH8489	27	12-Dec-24	08-Jan-25	CP25 - EB - Tympanum Civil works CH8489		
A7950	CP25 - CP TBM cycle	18	08-Jan-25	26-Jan-25	CP25 -		
A8260	CP25 - Internal & Collar Structure & ABWF	60	26-Jan-25	27-Mar-25			
CP27							
TD0310	CP27 - WB - Tympanum Civil works CH8688	27	20-Jan-25	15-Feb-25			
CP28							
TD1000	CP28 - WB - Temporary Platform setup & Tympanum CH8787	35	07-Jan-25	10-Feb-25			
Cross Passages @ CKL Tunnel (CP30 to CP33)							
10 East Ventilation Building - EVB							
Structure Works							
R/F Walls & UR/F Slab							
EVB1480	EVB - RC works (R/F wall & UR/F slab)	117	05-Oct-24 A	29-Jan-25			
EVB1520	EVB - Remaining Planter Walls	28	29-Jan-25	26-Feb-25			
ABWF Works							
ABWF - Works prior to BYME access							
EVB1350	EVB - ABWF works (G/F)	117	22-Jul-24 A	15-Nov-24	EVB - ABWF works (G/F)		
ABWF - Door & Louvre installation							
EVB1510	EVB - Door installation	107	01-Nov-24*	15-Feb-25			
EVB1530	EVB - Louvre installation	120	01-Nov-24*	28-Feb-25			
E&M Works (by BYME)							
EVB1210	EVB - E&M works (B/F)	202	15-Mar-24 A	18-Nov-24	EVB - E&M works (B/F)		
EVB1300	EVB - E&M works (LG3/F)	179	26-Apr-24 A	28-Nov-24	EVB - E&M works (LG3/F)		
EVB1360	EVB - E&M works (LG2/F)	172	21-May-24 A	12-Dec-24	EVB - E&M works (LG2/F)		
EVB1440	EVB - E&M works (LG1/F)	170	10-Jul-24 A	03-Feb-25			
EVB1500	EVB - E&M works (G/F)	157	07-Aug-24 A	15-Feb-25			
Footbridge FB03							
VO - Remedial works and Footing Construction							
		22	20-Oct-24 A	10-Nov-24			

- ◆ Milestones
- Planned Bar
- Actual Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron
Three Months Rolling Programme (Nov24-Jan25)



Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish	2024		2025
					Nov	Dec	Jan
EVB1640	VO - Footing construction	22	20-Oct-24 A	10-Nov-24	VO - Footing construction		
Original Scope		138	15-Aug-24 A	30-Dec-24			
EVB1375	FB-03 - Fabrication & Ready for delivery	94	15-Aug-24 A	16-Nov-24	FB-03 - Fabrication & Ready for delivery		
EVB1385	FB03 - Bearing installation (subject to Footing readiness on LSJV)	12	17-Nov-24	28-Nov-24	FB03 - Bearing installation (subject to Footing readiness on LSJV side)		
EVB1380	FB-03 - Bridge Deck Delivery & Assembly (subject to Footing read	38	17-Nov-24	24-Dec-24	FB-03 - Bridge Deck Delivery & Assembly (subject to Footing readiness on LSJV side)		
EVB1420	FB-03 - Steel Bridge Installation	6	25-Dec-24	30-Dec-24	FB-03 - Steel Bridge Installation		
Statutory Procedures		162	01-Sep-24 A	09-Feb-25			
GBP & VAC submission		130	03-Oct-24 A	09-Feb-25			
EVB1570	GBP Final amendment submission & approval	37	03-Oct-24 A	08-Nov-24	GBP Final amendment submission & approval		
EVB1580	VAC submission & 3 mth approval period by FSD	93	09-Nov-24	09-Feb-25			
Power Enderization		122	01-Sep-24 A	31-Dec-24			
EVB1390	CLP Rm - Inspection + Installation	77	15-Sep-24 A	30-Nov-24	CLP Rm - Inspection + Installation		
EVB1393	Trench excavation & UU protection for exposing CLP lead in cables	91	01-Sep-24 A	30-Nov-24	Trench excavation & UU protection for exposing CLP lead in cables		
EVB1395	CLP Cable Lead in connection + cable laying + T&C	31	01-Dec-24	31-Dec-24	CLP Cable Lead in connection + cable laying + T&C		
Dangerous Goods Licenses		43	01-Nov-24	13-Dec-24			
EVB1330	DG Licenses inspection	36	01-Nov-24	06-Dec-24	DG Licenses inspection		
EVB1340	Issuance of Certificate from FSD	7	07-Dec-24	13-Dec-24	Issuance of Certificate from FSD		
Lift Installation		121	11-Sep-24 A	09-Jan-25			
EVB1370	Lift Shaft - Lift Installation (by OTIS)	81	11-Sep-24 A	30-Nov-24	Lift Shaft - Lift Installation (by OTIS)		
EVB1430	Lift Shaft - T&C & LE5 submission	28	01-Dec-24	28-Dec-24	Lift Shaft - T&C & LE5 submission		
EVB1450	EMSD inspection & Issue Use Permit	12	29-Dec-24	09-Jan-25	EMSD inspection & Issue Use Permit		
FS Water Supply		154	01-Sep-24 A	01-Feb-25			
EVB1410	EVB - Final Watermain installation after given full access	24	16-Nov-24	09-Dec-24	EVB - Final Watermain installation after given full access		
EVB1405	External - Fire hydrants construction (by LCSJV)	122	01-Sep-24 A	31-Dec-24	External - Fire hydrants construction (by LCSJV)		
EVB1460	EVB - WWO 046 Part IV application & inspection	29	10-Dec-24	07-Jan-25	EVB - WWO 046 Part IV application & inspection		
EVB1470	EVB - Water sampling test (by WSD)	12	08-Jan-25	19-Jan-25	EVB - Water sampling test		
EVB1490	EVB - Watermeter installation	11	22-Jan-25	01-Feb-25	EVB - Watermeter installation		
11 Tunnel E&M Installation		263	12-Aug-24 A	01-May-25			
E&M - Cabling works		263	12-Aug-24 A	01-May-25			
AGR & DPR		120	02-Jan-25	01-May-25			
DPR10060	DPR - EB E&M Installation	120	02-Jan-25	01-May-25			
DPR10080	DPR - WB E&M Installation	120	02-Jan-25	01-May-25			
SUS to CKL		256	12-Aug-24 A	25-Apr-25			
Eastbound		177	20-Sep-24 A	15-Mar-25			
E&MC1050	EB TSS - CP7-11 - E&M installation	101	20-Sep-24 A	29-Dec-24	EB TSS - CP7-11 - E&M installation		
E&MC1080	EB TSS - CP11-16 E&M installation	90	01-Nov-24*	29-Jan-25			
E&MC1010	EB SUS - E&M Installation	120	22-Oct-24 A	18-Feb-25			
E&MC1100	EB TSS - CP16-22 E&M installation	90	16-Dec-24	15-Mar-25			
Westbound		256	12-Aug-24 A	25-Apr-25			
E&MC1041	WB TSS - CP7-11 - E&M installation	133	12-Aug-24 A	22-Dec-24	WB TSS - CP7-11 - E&M installation		
E&MC1060	WB TSS - CP11-16 E&M installation	120	27-Sep-24 A	25-Jan-25	WB TSS -		
E&MC1030	WB SUS - E&M Installation	120	25-Oct-24 A	22-Feb-25			
E&MC1070	WB TSS - CP16-21 E&M installation	90	11-Dec-24	11-Mar-25			
E&MC1090	WB TSS - CP21-24 E&M installation	90	25-Jan-25	25-Apr-25			
14 Projectwide Final Works		52	22-Dec-24	12-Feb-25			
Tunnel Cladding (VE Panel)		52	22-Dec-24	12-Feb-25			
Eastbound		45	30-Dec-24	12-Feb-25			
Typical Subframe & Niche		45	30-Dec-24	12-Feb-25			
VE10260	VE Panel - Subframe - EB TSS CP7-11 CPS & NCPS	21	30-Dec-24*	19-Jan-25	VE Panel - Subframe - E		
VE10280	VE Panel - Subframe - EB TSS CP11-16 CPS & NCPS	14	30-Jan-25*	12-Feb-25			
Westbound		46	22-Dec-24	06-Feb-25			
Typical Subframe & Niche		46	22-Dec-24	06-Feb-25			
VE10060	VE Panel - Subframe - WB TSS CP7-11 CPS & NCPS	21	22-Dec-24*	12-Jan-25	VE Panel - Subframe - WB TSS CP7-11 C		
VE10070	VE Panel - Subframe - WB TSS CP11-16 CPS & NCPS	12	25-Jan-25*	06-Feb-25			

- ◆ Milestones
- Planned Bar
- Actual Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron
Three Months Rolling Programme (Nov24-Jan25)



Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish	2024		2025
					Nov	Dec	Jan
Infrastructure Works							
05 Common Utility Enclosure (CUE) (KD-39)							
VO - Plantroom for CUE Sprinkler System							
Power Energization							
CUE10510	T&C	21	01-Nov-24	26-Nov-24	T&C		
Overall T&C and FSI							
CUE10530	Waiting Period	11	01-Nov-24	13-Nov-24	Waiting Period		
CUE10550	CUE FSI	6	26-Nov-24	02-Dec-24	CUE FSI		
CUE10551	Waiting Period for Issuance of Certificate	11	02-Dec-24	14-Dec-24	Waiting Period for Issuance of Certificate		
06 Road S20							
VO - Charging Station Run-in							
A229447410	Pavement and Finishing	16	01-Nov-24	16-Nov-24	Pavement and Finishing		
VO - KFR Watermain modification							
A229448990	Carriageway - pipe installation (10m)	7	01-Nov-24	07-Nov-24	Carriageway - pipe installation (10m)		
A229449000	T&C and connection	14	08-Nov-24	21-Nov-24	T&C and connection		
A229449010	Reinstatement	7	22-Nov-24	28-Nov-24	Reinstatement		
07 Road L10(N)							
L10(N) Landscape (KD-26)							
LN10110	L10(N) - Landscape softwork (TBC)	26	30-Nov-24	02-Jan-25	L10(N) - Landscape softwork (TBC)		
L10(N) Remaining works							
LN10080	Road L10N - Fresh Watermain T&C	90	15-Aug-24 A	12-Nov-24	Road L10N - Fresh Watermain T&C		
LN10075	Road L10N - Salt Watermain T&C	84	21-Aug-24 A	12-Nov-24	Road L10N - Salt Watermain T&C		
LN10100	Road L10N - Drainage T&C	21	12-Nov-24	03-Dec-24	Road L10N - Drainage T&C		
LN10140	Road L10N - Road Lighting	60	01-Jan-25	01-Mar-25			
LN10130	Road L10N - Street furniture & road signage	61	01-Jan-25	02-Mar-25			
08 Road L10(S) & L18							
L10(S) & L18 Landscape (KD-24)							
A229445710	L10 (S) & L18 - Landscape softwork (TBC)	25	01-Nov-24*	29-Nov-24	L10 (S) & L18 - Landscape softwork (TBC)		
L10(S) & L18 Remaining works							
Miscellaneous road works							
A229448740	Street furniture & road signage	61	01-Nov-24*	31-Dec-24	Street furniture & road signage		
A229448760	L10 (S) & L18 - Road Lighting	61	01-Nov-24*	31-Dec-24	L10 (S) & L18 - Road Lighting		
Preparation for road opening							
A229448700	NAH Sewage Tapping Replacement Work - Part 4	21	21-Oct-24 A	10-Nov-24	NAH Sewage Tapping Replacement Work - Part 4		
A229448710	L10 (S) & L18 - Footpath reinstatement	14	11-Nov-24	24-Nov-24	L10 (S) & L18 - Footpath reinstatement		
A229448711	L10 (S) & L18 - Diversion of public footpath	14	25-Nov-24	08-Dec-24	L10 (S) & L18 - Diversion of public footpath		
A229448720	Container walkway removal	21	09-Dec-24	29-Dec-24	Container walkway removal		
A229448721	L10 (S) & L18 - Drainage T&C	36	30-Dec-24	03-Feb-25			
Roadside Area adjacent to L10(S)							
Roadworks							
A229448810	Roadside Area adjacent to L10S - Road works	30	01-Nov-24*	30-Nov-24	Roadside Area adjacent to L10S - Road works		
Landscape							
A229448820	Roadside Area adjacent to L10S - Landscape (TBC)	30	03-Jan-25	01-Feb-25			
09 Footbridge FB-02 (KD-17 achieved)							
FB-02 Remaining works							
FB211100	Planter Drainboard installation	14	01-Nov-24*	14-Nov-24	Planter Drainboard installation		
FB211060	FB-02 Cladding	283	24-Feb-24 A	28-Nov-24	FB-02 Cladding		
FB211080	HyD VO - Drainage Enhancement	38	22-Oct-24 A	29-Nov-24	HyD VO - Drainage Enhancement		
FB211110	Soft landscape	28	15-Nov-24	12-Dec-24	Soft landscape		
KF64 reinstatement							
FB211120	KF64 reinstatement - Canopy	30	01-Nov-24*	30-Nov-24	KF64 reinstatement - Canopy		
FB211130	KF64 reinstatement - Finishing works	30	01-Dec-24	30-Dec-24	KF64 reinstatement - Finishing works		

- ◆ Milestones
- Planned Bar
- Actual Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron
Three Months Rolling Programme (Nov24-Jan25)



Date	Revision	Checked	Approved

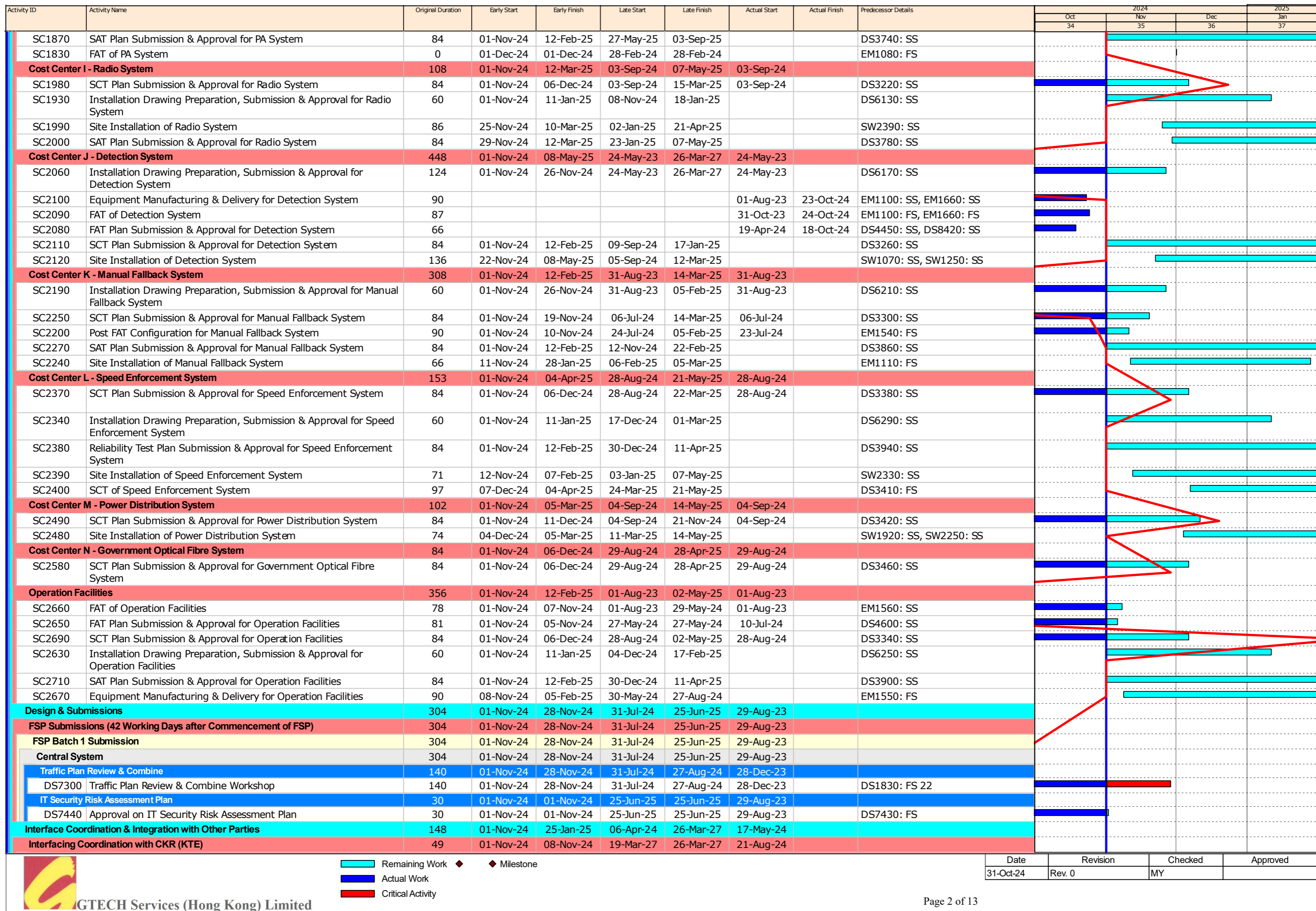
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				2025	
										Oct 34	Nov 35	Dec 36	Jan 37		
Trunk Road T2 - Traffic Control & Surveillance System & Associated Works															
Access Dates															
AC1000	Portion 1 - South Apron Up to SUS	0	01-Nov-24			12-Jun-24									
AC1020	Portion 3 - CKL Branch Tunnel in TKO-LTT Site	0	01-Nov-24			11-Jan-25									
AC1030	Portion 4 - TKO-LTT (LT Interchange)	0	01-Nov-24			06-Jul-24									
AC1040	Underpass S21	0	01-Nov-24			26-Apr-25									
AC1050	Portion 2 - LS - CKL Tunnel CH 6+568 to CH 7+100	0	01-Nov-24			01-Sep-24									
AC1060	Portion 2 - LS - CKL Tunnel CH 7+100 to CH 7+600	0	01-Nov-24			01-Sep-24									
AC1070	Portion 2 - LS - CKL Tunnel CH 7+600 to CH 8+100	0	01-Nov-24			01-Sep-24									
AC1080	Portion 2 - LS - CKL Tunnel CH 8+100 to CH 8+750	0	01-Nov-24			04-Oct-24									
AC1090	Portion 2 - LS - CKL Tunnel CH 8+750 to CH 9+250	0	07-Nov-24			07-Nov-24									
Summary by Cost Center															
Cost Center B - Central System															
SC1070	SCT Plan Submission & Approval for Central System	84	01-Nov-24	19-Nov-24	06-Jul-24	14-Mar-25	06-Jul-24			DS2940: SS					
SC1090	SAT Plan Submission & Approval for Central System	78	01-Nov-24	05-Feb-25	07-Jan-25	11-Apr-25				DS3500: SS					
SC1080	Site Installation of Central System	72	13-Dec-24	12-Mar-25	23-Oct-24	17-Feb-25				SW1100: SS, SW1120: SS, SW1960: SS, SW1090: SS, SW1670: SS, SW1770: SS					
Cost Center C - Traffic Control Devices															
SC1150	Installation Drawing Preparation, Submission & Approval for Traffic Control Devices	72	01-Nov-24	25-Nov-24	31-Aug-23	30-Aug-24	31-Aug-23			DS5890: SS					
SC1190	Equipment Manufacturing & Delivery for Traffic Control Devices	135	01-Nov-24	30-Nov-24	16-Sep-23	13-Dec-24	16-Sep-23			EM1320: SS					
SC1200	SCT Plan Submission & Approval for Traffic Control Devices	84	01-Nov-24	02-Jan-25	23-Sep-24	22-Feb-25	23-Sep-24			DS2980: SS					
SC1220	SAT Plan Submission & Approval for Traffic Control Devices	84	01-Nov-24	12-Feb-25	30-Dec-24	11-Apr-25				DS3540: SS					
SC1210	Site Installation of Traffic Control Devices	138	28-Dec-24	16-Jun-25	31-Aug-24	07-May-25				SW1110: SS					
Cost Center D - Communication System															
SC1340	SCT Plan Submission & Approval for Communication System	84	01-Nov-24	19-Nov-24	14-Aug-24	05-Dec-24	14-Aug-24			DS3020: SS					
SC1350	SAT Plan Submission & Approval for Communication System	80	01-Nov-24	07-Feb-25	07-Nov-24	13-Feb-25				DS3580: SS					
SC1330	Site Installation of Communication System	50	10-Jan-25	12-Mar-25	23-Oct-24	17-Feb-25				SW1100: SS, SW1120: SS, SW1960: SS					
Cost Center E - CCTV System															
SC1410	Installation Drawing Preparation, Submission & Approval for CCTV System	99	01-Nov-24	08-Nov-24	01-Mar-23	26-Mar-27	01-Mar-23			DS5970: SS					
SC1460	SCT Plan Submission & Approval for CCTV System	84	01-Nov-24	10-Dec-24	24-Jun-24	03-Feb-25	24-Jun-24			DS3060: SS					
SC1480	SAT Plan Submission & Approval for CCTV System	84	01-Nov-24	12-Feb-25	24-Dec-24	07-Apr-25				DS3620: SS					
SC1470	Site Installation of CCTV System	78	22-Nov-24	26-Feb-25	23-Oct-24	12-Mar-25				SW1060: SS, SW1940: SS					
Cost Center F - PABX System															
SC1560	Installation Drawing Preparation, Submission & Approval for PABX System	68	01-Nov-24	23-Nov-24	27-Jul-23	24-Dec-24	27-Jul-23			DS6010: SS					
SC1600	SCT Plan Submission & Approval for PABX System	84	01-Nov-24	19-Nov-24	28-Jun-24	07-Apr-25	28-Jun-24			DS3100: SS					
SC1610	SAT Plan Submission & Approval for PABX System	84	01-Nov-24	12-Feb-25	11-Jun-25	17-Sep-25				DS3660: SS					
SC1590	Site Installation of PABX System	54	25-Nov-24	28-Jan-25	02-Jan-25	07-Apr-25				SW2380: SS					
SC1620	SCT of PABX System	206	20-Dec-24	28-Aug-25	12-Mar-25	21-May-25				SW2770: SS					
Cost Center G - ET System															
SC1730	SCT Plan Submission & Approval for ET System	84	01-Nov-24	19-Nov-24	13-Aug-24	08-Mar-25	13-Aug-24			DS3140: SS					
SC1720	Site Installation of ET System	96	01-Nov-24	26-Feb-25	07-Jan-25	14-Apr-25				SW2340: SS					
SC1740	SAT Plan Submission & Approval for ET System	84	01-Nov-24	12-Feb-25	23-Jan-25	07-May-25				DS3700: SS					
Cost Center H - PA System															
SC1850	SCT Plan Submission & Approval for PA System	84	01-Nov-24	10-Dec-24	11-Jun-24	22-Mar-25	11-Jun-24			DS3180: SS					
SC1860	Site Installation of PA System	84	01-Nov-24	12-Feb-25	23-Dec-24	22-Mar-25				SW2370: SS					



GTECH Services (Hong Kong) Limited

■ Remaining Work
 ■ Actual Work
 ■ Critical Activity
 ◆ Milestone

Date	Revision	Checked	Approved
31-Oct-24	Rev. 0	MY	



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				2025
										Oct 34	Nov 35	Dec 36	Jan 37	
Detail Interfacing Management Plan (DIMP)														
DS6630	Resubmit DIMP with CKR (KTE)	16					21-Aug-24	21-Oct-24	DS6620: FS					
DS6640	Approval of DIMP with CKR (KTE)	7	01-Nov-24	08-Nov-24	19-Mar-27	26-Mar-27	22-Oct-24		DS6630: FS					
Interfacing Coordination with CKR (BEM)														
Detail Interfacing Management Plan (DIMP)														
DS6710	Resubmit DIMP with CKR (BEM)	16					21-Aug-24	21-Oct-24	DS6700: FS					
DS6720	Approval of DIMP with CKR (BEM)	7	01-Nov-24	08-Nov-24	19-Mar-27	26-Mar-27	22-Oct-24		DS6710: FS					
Interfacing Coordination with TKO-LTT (Civil)														
Detail Interfacing Management Plan (DIMP)														
DS6780	Comment on DIMP with TKO-LTT (Civil)	17	01-Nov-24	01-Nov-24	26-Feb-27	26-Feb-27	17-May-24		DS6770: FS					
DS6790	Resubmit DIMP with TKO-LTT (Civil)	16	02-Nov-24	20-Nov-24	27-Feb-27	17-Mar-27			DS6780: FS					
DS6800	Approval of DIMP with TKO-LTT (Civil)	8	21-Nov-24	29-Nov-24	18-Mar-27	26-Mar-27			DS6790: FS					
Interfacing Coordination with TKO-LTT (TCSS)														
Detail Interfacing Management Plan (DIMP)														
DS6860	Comment on DIMP with TKO-LTT (TCSS)	10	01-Nov-24	01-Nov-24	22-Feb-27	22-Feb-27	17-May-24		DS6850: FS					
DS6870	Resubmit DIMP with TKO-LTT (TCSS)	16	02-Nov-24	20-Nov-24	23-Feb-27	12-Mar-27			DS6860: FS					
DS6880	Approval of DIMP with TKO-LTT (TCSS)	12	21-Nov-24	04-Dec-24	13-Mar-27	26-Mar-27			DS6870: FS					
Interfacing Coordination with T2														
Preliminary Interfacing Management Plan (PIMP)														
DS6890	Prepare & Submit PIMP with T2	24	01-Nov-24	28-Nov-24	06-Apr-24	04-May-24			DS2680: FS 211					
DS6900	Comment on PIMP with T2	24	29-Nov-24	27-Dec-24	06-May-24	03-Jun-24			DS6890: FS					
DS6910	Resubmit PIMP with T2	12	28-Dec-24	11-Jan-25	04-Jun-24	18-Jun-24			DS6900: FS					
DS6920	Approval of PIMP with T2	12	13-Jan-25	25-Jan-25	19-Jun-24	03-Jul-24			DS6910: FS					
Detail Interfacing Management Plan (DIMP)														
DS6950	Resubmit DIMP with T2	12					21-Aug-24	21-Oct-24	DS6940: FS					
DS6960	Approval of DIMP with T2	12	01-Nov-24	14-Nov-24	13-Mar-27	26-Mar-27	22-Oct-24		DS6950: FS					
Drawing & Installation Method Statement Submissions														
Installation Drawing Submission														
DS2695	Prepare & Submit Schedule of Installation Drawing	30	01-Nov-24	05-Dec-24	05-Jul-23	08-Aug-23			DS1050: FS 103					
DS2705	Approval of Schedule of Installation Drawing	50	06-Dec-24	07-Feb-25	09-Aug-23	07-Oct-23			DS2695: FS					
Traffic Control Devices														
DS8240	Resubmit Installation Drawing for Traffic Control Devices	12	01-Nov-24	11-Nov-24	07-Aug-24	16-Aug-24	04-May-24		DS5920: FS					
DS8250	Approval of Installation Drawing for Traffic Control Devices	12	12-Nov-24	25-Nov-24	17-Aug-24	30-Aug-24			DS8240: FS, SC1150: FF					
CCTV System														
DS8020	Resubmit Installation Drawing for CCTV System	26					13-Dec-23	25-Oct-24	DS8010: FS					
DS8030	Approval of Installation Drawing for CCTV System	12	01-Nov-24	08-Nov-24	19-Mar-27	26-Mar-27	26-Oct-24		DS8020: FS, SC1410: FF					
PABX System														
DS6030	Resubmit Installation Drawing for PABX System	12	01-Nov-24	09-Nov-24	02-Dec-24	10-Dec-24	08-Sep-23		DS6020: FS					
DS6040	Approval of Installation Drawing for PABX System	12	11-Nov-24	23-Nov-24	11-Dec-24	24-Dec-24			DS6030: FS, SC1560: FF					
Radio System														
DS6130	Prepare & Submit Installation Drawing for Radio System	12	01-Nov-24	14-Nov-24	08-Nov-24	21-Nov-24			DS2154: FS					
DS6140	Comment on Installation Drawing for Radio System	24	15-Nov-24	12-Dec-24	22-Nov-24	19-Dec-24			DS6130: FS					
DS6150	Resubmit Installation Drawing for Radio System	12	13-Dec-24	27-Dec-24	20-Dec-24	04-Jan-25			DS6140: FS					
DS6160	Approval of Installation Drawing for Radio System	12	28-Dec-24	11-Jan-25	06-Jan-25	18-Jan-25			DS6150: FS, SC1930: FF					
Detection System														
DS8280	Resubmit Installation Drawing for Detection System	24	01-Nov-24	12-Nov-24	02-Mar-27	12-Mar-27	09-Dec-23		DS6200: FS					
DS8290	Approval of Installation Drawing for Detection System	12	13-Nov-24	26-Nov-24	13-Mar-27	26-Mar-27			DS8280: FS, SC2060: FF					
Manual Fallback Control System														
DS8300	Resubmit Installation Drawing for Manual Fallback Control System	12	01-Nov-24	12-Nov-24	08-Jan-25	18-Jan-25	04-May-24		DS6240: FS					
DS8310	Approval of Installation Drawing for Manual Fallback Control System	12	13-Nov-24	26-Nov-24	20-Jan-25	05-Feb-25			DS8300: FS, SC2190: FF					
Operation Facility														
DS6250	Prepare & Submit Installation Drawing for Operation Facility	12	01-Nov-24	14-Nov-24	04-Dec-24	17-Dec-24			DS2532: FS					



GTECH Services (Hong Kong) Limited

■ Remaining Work
 ■ Actual Work
 ■ Critical Activity
 ◆ Milestone

Date	Revision	Checked	Approved
31-Oct-24	Rev. 0	MY	

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				2025
										Oct	Nov	Dec	Jan	
										34	35	36	37	
DS6260	Comment on Installation Drawing for Operation Facility	24	15-Nov-24	12-Dec-24	18-Dec-24	16-Jan-25			DS6250: FS					
DS6270	Resubmit Installation Drawing for Operation Facility	12	13-Dec-24	27-Dec-24	17-Jan-25	03-Feb-25			DS6260: FS					
DS6280	Approval of Installation Drawing for Operation Facility	12	28-Dec-24	11-Jan-25	04-Feb-25	17-Feb-25			DS6270: FS, SC2630: FF					
Speed Enforcement System		60	01-Nov-24	11-Jan-25	17-Dec-24	01-Mar-25								
DS6290	Prepare & Submit Installation Drawing for Speed Enforcement System	12	01-Nov-24	14-Nov-24	17-Dec-24	31-Dec-24			DS2472: FS					
DS6300	Comment on Installation Drawing for Speed Enforcement System	24	15-Nov-24	12-Dec-24	02-Jan-25	01-Feb-25			DS6290: FS					
DS6310	Resubmit Installation Drawing for Speed Enforcement System	12	13-Dec-24	27-Dec-24	03-Feb-25	15-Feb-25			DS6300: FS					
DS6320	Approval of Installation Drawing for Speed Enforcement System	12	28-Dec-24	11-Jan-25	17-Feb-25	01-Mar-25			DS6310: FS, SC2340: FF					
Installation Method Statement Submission		276	01-Nov-24	27-Nov-24	01-Mar-27	26-Mar-27	10-Aug-23							
Power Distribution System		276	01-Nov-24	27-Nov-24	01-Mar-27	26-Mar-27	10-Aug-23							
DS6550	Resubmit Installation Method Statement for Power Distribution System	6	01-Nov-24	13-Nov-24	01-Mar-27	12-Mar-27	10-Aug-23		DS6540: FS					
DS6560	Approval of Installation Method Statement for Power Distribution System	12	14-Nov-24	27-Nov-24	13-Mar-27	26-Mar-27			DS6550: FS					
FAT Plan Submissions, Equipment Procurement & Manufacturing		372	01-Nov-24	05-Feb-25	23-May-24	26-Mar-27	01-Aug-23							
PA System		89	01-Nov-24	30-Nov-24	25-Feb-27	26-Mar-27	01-Aug-23							
Equipment FAT & Manufacturing		89	01-Nov-24	30-Nov-24	25-Feb-27	26-Mar-27	01-Aug-23							
EM1080	Manufacturing & Delivery of PA System	89	01-Nov-24	30-Nov-24	25-Feb-27	26-Mar-27	01-Aug-23		DS7590: FS, DS2292: FS					
Traffic Control Devices		117	01-Nov-24	30-Nov-24	01-Aug-24	13-Dec-24	10-Oct-23							
Equipment FAT & Manufacturing		117	01-Nov-24	30-Nov-24	01-Aug-24	13-Dec-24	10-Oct-23							
PVMS		85	01-Nov-24	30-Nov-24	14-Nov-24	13-Dec-24	10-Oct-23							
EM1030	Post-FAT Manufacturing & Delivery of Traffic Control Devices (PVMS)	85	01-Nov-24	30-Nov-24	14-Nov-24	13-Dec-24	10-Oct-23		DS4290: FF, SC1190: FF, EM1460: FS					
LED Signage		85	01-Nov-24	30-Nov-24	01-Aug-24	30-Aug-24	12-Mar-24							
EM1650	Post-FAT Manufacturing & Delivery of Traffic Control Devices (LED Signage)	85	01-Nov-24	30-Nov-24	01-Aug-24	30-Aug-24	12-Mar-24		EM1461: FS, SC1190: FF, DS4291: FS, DS8160: FS					
Detection System		56					28-Aug-24	29-Oct-24						
FAT Plan Submission		56					28-Aug-24	18-Oct-24						
VD & HMD		56					28-Aug-24	18-Oct-24						
DS8530	Resubmission of FAT Plan for Detection System	12					28-Aug-24	15-Oct-24	DS4480: FS					
DS8540	Approval of FAT Plan for Detection System	12					16-Oct-24	18-Oct-24	DS8530: FS, SC2080: FF					
Equipment FAT & Manufacturing		33					30-Sep-24	29-Oct-24						
VD & HMD		8					23-Oct-24	29-Oct-24						
EM1530	FAT of Detection System - VD & HMD	2					23-Oct-24	24-Oct-24	SC2090: FF, EM1100: FS, SC2100: FS, DS8540: FS					
DS4490	Submit Detection System FAT Test Report	1					29-Oct-24	29-Oct-24	EM1530: FS 6					
OHVD		33					30-Sep-24	09-Oct-24						
EM1670	FAT of Detection System - OHVD	2					30-Sep-24	30-Sep-24	EM1660: FS, SC2090: SS, SC2100: FS, DS8520: FS					
DS8460	Submit Detection System FAT Test Report	8					09-Oct-24	09-Oct-24	EM1670: FS 6					
Operation Facilities		93	01-Nov-24	05-Feb-25	23-May-24	27-Aug-24	21-Sep-24							
FAT Plan Submission		43	01-Nov-24	05-Nov-24	23-May-24	27-May-24	21-Sep-24							
DS4630	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	12					21-Sep-24	10-Oct-24	DS4620: FS					
DS8610	Resubmission of FAT Plan for Operation Facility	12					11-Oct-24	22-Oct-24	DS4630: FS					
DS8620	Approval of FAT Plan for Operation Facility	12	01-Nov-24	05-Nov-24	23-May-24	27-May-24	23-Oct-24		DS8610: FS, SC2650: FF					
Equipment FAT & Manufacturing		74	06-Nov-24	05-Feb-25	28-May-24	27-Aug-24								
EM1550	FAT of Operation Facilities	2	06-Nov-24	07-Nov-24	28-May-24	29-May-24			SC2660: FF, DS7310: FS, EM1560: FS, DS7550: FS, DS7670: FS, DS8620: FS					
EM1120	Post-FAT Manufacturing & Delivery of Operation Facilities	90	08-Nov-24	05-Feb-25	30-May-24	27-Aug-24			EM1550: FS, DS4640: FF, SC2670: FF, DS2530: FS, DS2532: FS					
DS4640	Submit Operation Facilities FAT Test Report	1	14-Nov-24	14-Nov-24	27-Aug-24	27-Aug-24			EM1550: FS 6, DS7550: FS					

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				2025	
										Oct 34	Nov 35	Dec 36	Jan 37		
Speed Enforcement System		12					16-Oct-24	28-Oct-24							
Equipment FAT & Manufacturing		12					16-Oct-24	28-Oct-24							
EM1600	SEC System Bench Test	1					16-Oct-24	16-Oct-24	EM1570: FS 60, DS8370: FS 60						
DS4740	Submit SEC System Bech Test Report	1					28-Oct-24	28-Oct-24	EM1600: FS 12						
Manual Fallback Control System		90	01-Nov-24	10-Nov-24	27-Jan-25	05-Feb-25	01-Aug-24								
Equipment FAT & Manufacturing		90	01-Nov-24	10-Nov-24	27-Jan-25	05-Feb-25	01-Aug-24								
EM1110	Post-FAT Configuration of Manual Fallback Control System	90	01-Nov-24	10-Nov-24	27-Jan-25	05-Feb-25	01-Aug-24		EM1540: FS, DS4790: FF, SC2200: FF	■					
SCT Plan Submissions		143	01-Nov-24	12-Feb-25	09-Sep-24	02-May-25	14-Aug-24								
Central System		65	01-Nov-24	19-Nov-24	25-Feb-25	14-Mar-25	18-Sep-24								
DS2970	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24					18-Sep-24	14-Oct-24	DS2960: FS	■					
DS8670	Resubmission of SCT Plan for Central System	12					15-Oct-24	22-Oct-24	DS2970: FS	■					
DS8680	Approval of SCT Plan for Central System	24	01-Nov-24	19-Nov-24	25-Feb-25	14-Mar-25	23-Oct-24		DS8670: FS, SC1070: FF	■					
Traffic Control Devices		58	01-Nov-24	02-Jan-25	19-Dec-24	22-Feb-25	23-Sep-24								
DS2980	Submission of Traffic Control Devices SCT Plan	24					23-Sep-24	22-Oct-24	EM1650: FS	■					
DS2990	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	01-Nov-24	19-Nov-24	19-Dec-24	08-Jan-25	23-Oct-24		DS2980: FS	■					
DS3000	Resubmission of SCT Plan for Traffic Control Devices	12	20-Nov-24	03-Dec-24	09-Jan-25	22-Jan-25			DS2990: FS	■					
DS3010	Approval of SCT Plan for Traffic Control Devices	24	04-Dec-24	02-Jan-25	23-Jan-25	22-Feb-25			DS3000: FS, SC1200: FF	■					
Communication System		45	01-Nov-24	19-Nov-24	18-Nov-24	05-Dec-24	11-Sep-24								
DS3030	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24					11-Sep-24	03-Oct-24	DS3020: FS	■					
DS3040	Resubmission of SCT Plan for Communication System	12					04-Oct-24	22-Oct-24	DS3030: FS	■					
DS3050	Approval of SCT Plan for Communication System	24	01-Nov-24	19-Nov-24	18-Nov-24	05-Dec-24	23-Oct-24		DS3040: FS, SC1340: FF	■					
CCTV System		67	01-Nov-24	10-Dec-24	20-Dec-24	03-Feb-25	14-Aug-24								
DS3080	Resubmission of SCT Plan for CCTV System	12	01-Nov-24	12-Nov-24	20-Dec-24	02-Jan-25	14-Aug-24		DS3070: FS	■					
DS3090	Approval of SCT Plan for CCTV System	24	13-Nov-24	10-Dec-24	03-Jan-25	03-Feb-25			DS3080: FS, SC1460: FF	■					
PABX System		38	01-Nov-24	19-Nov-24	19-Mar-25	07-Apr-25	13-Sep-24								
DS3130	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24					13-Sep-24	03-Oct-24	DS3120: FS	■					
DS8630	Resubmission of SCT Plan for PABX System	12					04-Oct-24	22-Oct-24	DS3130: FS	■					
DS8640	Approval of SCT Plan for PABX System	24	01-Nov-24	19-Nov-24	19-Mar-25	07-Apr-25	23-Oct-24		DS8630: FS, SC1600: FF	■					
ET System		44	01-Nov-24	19-Nov-24	19-Feb-25	08-Mar-25	10-Sep-24								
DS3150	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24					10-Sep-24	03-Oct-24	DS3140: FS	■					
DS3160	Resubmission of SCT Plan for ET System	12					04-Oct-24	22-Oct-24	DS3150: FS	■					
DS3170	Approval of SCT Plan for ET System	24	01-Nov-24	19-Nov-24	19-Feb-25	08-Mar-25	23-Oct-24		DS3160: FS, SC1730: FF	■					
PA System		89	01-Nov-24	10-Dec-24	30-Nov-24	22-Mar-25	20-Sep-24								
DS8590	Resubmission of SCT Plan for PA System	12					20-Sep-24	04-Oct-24	DS3210: FS	■					
DS8600	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24					05-Oct-24	29-Oct-24	DS8590: FS	■					
DS8650	Resubmission of SCT Plan for PA System	12	01-Nov-24	12-Nov-24	30-Nov-24	11-Dec-24	30-Oct-24		DS8600: FS	■					
DS8660	Approval of SCT Plan for PA System	24	13-Nov-24	10-Dec-24	24-Feb-25	22-Mar-25			DS8650: FS, SC1850: FF	■					
Radio System		60	01-Nov-24	06-Dec-24	08-Feb-25	15-Mar-25	03-Sep-24								
DS3220	Submission of Radio System SCT Plan	24					03-Sep-24	02-Oct-24	EM1090: SS 30	■					
DS3230	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24					03-Oct-24	25-Oct-24	DS3220: FS	■					
DS3240	Resubmission of SCT Plan for Radio System	12	01-Nov-24	08-Nov-24	08-Feb-25	15-Feb-25	26-Oct-24		DS3230: FS	■					
DS3250	Approval of SCT Plan for Rad io System	24	09-Nov-24	06-Dec-24	17-Feb-25	15-Mar-25			DS3240: FS, SC1980: FF	■					
Detection System		84	01-Nov-24	12-Feb-25	09-Sep-24	17-Jan-25									
DS3260	Submission of Detection System SCT Plan	24	01-Nov-24	28-Nov-24	09-Sep-24	08-Oct-24			EM1100: FS, EM1660: FS	■					
DS3270	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Nov-24	27-Dec-24	07-Nov-24	04-Dec-24			DS3260: FS	■					
DS3280	Resubmission of SCT Plan for Detection System	12	28-Dec-24	11-Jan-25	05-Dec-24	18-Dec-24			DS3270: FS	■					
DS3290	Approval of SCT Plan for Detection System	24	13-Jan-25	12-Feb-25	19-Dec-24	17-Jan-25			DS3280: FS, SC2110: FF	■					

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				2025
										Oct 34	Nov 35	Dec 36	Jan 37	
Manual Fallback Control System		65	01-Nov-24	19-Nov-24	25-Feb-25	14-Mar-25	18-Sep-24							
DS3330	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24					18-Sep-24	14-Oct-24	DS3320: FS					
DS8690	Resubmission of SCT Plan for Manual Fallback Control System	12					15-Oct-24	22-Oct-24	DS3330: FS					
DS8700	Approval of SCT Plan for Manual Fallback Control System	24	01-Nov-24	19-Nov-24	25-Feb-25	14-Mar-25	23-Oct-24		DS8690: FS, SC2250: FF					
Operation Facility		93	01-Nov-24	06-Dec-24	26-Mar-25	02-May-25	26-Sep-24							
DS3350	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24					26-Sep-24	25-Oct-24	DS3340: FS					
DS3360	Resubmission of SCT Plan for Operation Facility	12	01-Nov-24	08-Nov-24	26-Mar-25	02-Apr-25	26-Oct-24		DS3350: FS					
DS3370	Approval of SCT Plan for Operation Facility	24	09-Nov-24	06-Dec-24	03-Apr-25	02-May-25			DS3360: FS, SC2690: FF					
Speed Enforcement System		33	01-Nov-24	06-Dec-24	15-Feb-25	22-Mar-25	26-Sep-24							
DS3390	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24					26-Sep-24	25-Oct-24	DS3380: FS					
DS3400	Resubmission of SCT Plan for Speed Enforcement System	12	01-Nov-24	08-Nov-24	15-Feb-25	22-Feb-25	26-Oct-24		DS3390: FS					
DS3410	Approval of SCT Plan for Speed Enforcement System	24	09-Nov-24	06-Dec-24	24-Feb-25	22-Mar-25			DS3400: FS, SC2370: FF					
Power Distribution System		60	01-Nov-24	11-Dec-24	12-Oct-24	21-Nov-24	04-Sep-24							
DS3420	Submission of Power Distribution System SCT Plan	24					04-Sep-24	03-Oct-24	EM1620: FS, DS2592: FS					
DS3430	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24					04-Oct-24	30-Oct-24	DS3420: FS					
DS3440	Resubmission of SCT Plan for Power Distribution System	12	01-Nov-24	13-Nov-24	12-Oct-24	24-Oct-24	31-Oct-24		DS3430: FS					
DS3450	Approval of SCT Plan for Power Distribution System	24	14-Nov-24	11-Dec-24	25-Oct-24	21-Nov-24			DS3440: FS, SC2490: FF					
Government Optical Fibre System		34	01-Nov-24	06-Dec-24	22-Mar-25	28-Apr-25	27-Sep-24							
DS3470	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24					27-Sep-24	25-Oct-24	DS3460: FS					
DS3480	Resubmission of SCT Plan for Government Optical Fibre System	12	01-Nov-24	08-Nov-24	22-Mar-25	29-Mar-25	26-Oct-24		DS3470: FS					
DS3490	Approval of SCT Plan for Government Optical Fibre System	24	09-Nov-24	06-Dec-24	31-Mar-25	28-Apr-25			DS3480: FS, SC2580: FF					
SAT Plan Submissions		84	01-Nov-24	12-Feb-25	07-Nov-24	17-Sep-25								
Central System		78	01-Nov-24	05-Feb-25	07-Jan-25	11-Apr-25								
DS3500	Submission of Central System SAT Plan	18	01-Nov-24	21-Nov-24	07-Jan-25	27-Jan-25			DS2940: FS					
DS3510	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	22-Nov-24	19-Dec-24	28-Jan-25	27-Feb-25			DS3500: FS					
DS3520	Resubmission of SAT Plan for Central System	12	20-Dec-24	04-Jan-25	28-Feb-25	13-Mar-25			DS3510: FS					
DS3530	Approval of SAT Plan for Central System	24	06-Jan-25	05-Feb-25	14-Mar-25	11-Apr-25			DS3520: FS, SC1090: FF					
Traffic Control Devices		84	01-Nov-24	12-Feb-25	30-Dec-24	11-Apr-25								
DS3540	Submission of Traffic Control Devices System SAT Plan	24	01-Nov-24	28-Nov-24	30-Dec-24	27-Jan-25			DS2980: FS					
DS3550	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Nov-24	27-Dec-24	28-Jan-25	27-Feb-25			DS3540: FS					
DS3560	Resubmission of SAT Plan for Traffic Control Devices	12	28-Dec-24	11-Jan-25	28-Feb-25	13-Mar-25			DS3550: FS					
DS3570	Approval of SAT Plan for Traffic Control Devices	24	13-Jan-25	12-Feb-25	14-Mar-25	11-Apr-25			DS3560: FS, SC1220: FF					
Communication System		80	01-Nov-24	07-Feb-25	07-Nov-24	13-Feb-25								
DS3580	Submission of Communication System SAT Plan	20	01-Nov-24	23-Nov-24	07-Nov-24	29-Nov-24			DS3020: SS 12					
DS3590	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	25-Nov-24	21-Dec-24	30-Nov-24	28-Dec-24			DS3580: FS					
DS3600	Resubmission of SAT Plan for Communication System	12	23-Dec-24	07-Jan-25	30-Dec-24	13-Jan-25			DS3590: FS					
DS3610	Approval of SAT Plan for Communication System	24	08-Jan-25	07-Feb-25	14-Jan-25	13-Feb-25			DS3600: FS, SC1350: FF					
CCTV System		84	01-Nov-24	12-Feb-25	24-Dec-24	07-Apr-25								
DS3620	Submission of CCTV System SAT Plan	24	01-Nov-24	28-Nov-24	24-Dec-24	22-Jan-25			DS3060: FS 24					
DS3630	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Nov-24	27-Dec-24	23-Jan-25	22-Feb-25			DS3620: FS					
DS3640	Resubmission of SAT Plan for CCTV System	12	28-Dec-24	11-Jan-25	24-Feb-25	08-Mar-25			DS3630: FS					
DS3650	Approval of SAT Plan for CCTV System	24	13-Jan-25	12-Feb-25	10-Mar-25	07-Apr-25			DS3640: FS, SC1480: FF					
PABX System		84	01-Nov-24	12-Feb-25	11-Jun-25	17-Sep-25								
DS3660	Submission of PABX System SAT Plan	24	01-Nov-24	28-Nov-24	11-Jun-25	09-Jul-25			DS3100: FS 48					
DS3670	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Nov-24	27-Dec-24	10-Jul-25	06-Aug-25			DS3660: FS					



Remaining Work ◆ ◆ Milestone
 Actual Work
 Critical Activity

Date	Revision	Checked	Approved
31-Oct-24	Rev. 0	MY	

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				2025
										Oct 34	Nov 35	Dec 36	Jan 37	
DS3680	Resubmission of SAT Plan for PABX System	12	28-Dec-24	11-Jan-25	07-Aug-25	20-Aug-25			DS3670: FS					
DS3690	Approval of SAT Plan for PABX System	24	13-Jan-25	12-Feb-25	21-Aug-25	17-Sep-25			DS3680: FS, SC1610: FF					
ET System		84	01-Nov-24	12-Feb-25	23-Jan-25	07-May-25								
DS3700	Submission of ET System SAT Plan	24	01-Nov-24	28-Nov-24	23-Jan-25	22-Feb-25			DS3140: FS 36					
DS3710	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Nov-24	27-Dec-24	24-Feb-25	22-Mar-25			DS3700: FS					
DS3720	Resubmission of SAT Plan for ET System	12	28-Dec-24	11-Jan-25	24-Mar-25	07-Apr-25			DS3710: FS					
DS3730	Approval of SAT Plan for ET System	24	13-Jan-25	12-Feb-25	08-Apr-25	07-May-25			DS3720: FS, SC1740: FF					
PA System		84	01-Nov-24	12-Feb-25	27-May-25	03-Sep-25								
DS3740	Submission of PA System SAT Plan	24	01-Nov-24	28-Nov-24	27-May-25	24-Jun-25			DS3180: FS 48					
DS3750	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Nov-24	27-Dec-24	25-Jun-25	23-Jul-25			DS3740: FS					
DS3760	Resubmission of SAT Plan for PA System	12	28-Dec-24	11-Jan-25	24-Jul-25	06-Aug-25			DS3750: FS					
DS3770	Approval of SAT Plan for PA System	24	13-Jan-25	12-Feb-25	07-Aug-25	03-Sep-25			DS3760: FS, SC1870: FF					
Radio System		60	29-Nov-24	12-Feb-25	23-Jan-25	07-Apr-25								
DS3780	Submission of Radio System SAT Plan	24	29-Nov-24	27-Dec-24	23-Jan-25	22-Feb-25			DS3220: FS 48					
DS3790	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	28-Dec-24	25-Jan-25	24-Feb-25	22-Mar-25			DS3780: FS					
DS3800	Resubmission of SAT Plan for Radio System	12	27-Jan-25	12-Feb-25	24-Mar-25	07-Apr-25			DS3790: FS					
Manual Fallback Control System		84	01-Nov-24	12-Feb-25	12-Nov-24	22-Feb-25								
DS3860	Submission of Manual Fallback Control System SAT Plan	24	01-Nov-24	28-Nov-24	12-Nov-24	09-Dec-24			DS3300: FS					
DS3870	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Nov-24	27-Dec-24	10-Dec-24	08-Jan-25			DS3860: FS					
DS3880	Resubmission of SAT Plan for Manual Fallback Control System	12	28-Dec-24	11-Jan-25	09-Jan-25	22-Jan-25			DS3870: FS					
DS3890	Approval of SAT Plan for Manual Fallback Control System	24	13-Jan-25	12-Feb-25	23-Jan-25	22-Feb-25			DS3880: FS, SC2270: FF					
Operation Facility		84	01-Nov-24	12-Feb-25	30-Dec-24	11-Apr-25								
DS3900	Submission of Operation Facility SAT Plan	24	01-Nov-24	28-Nov-24	30-Dec-24	27-Jan-25			DS3340: FS					
DS3910	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Nov-24	27-Dec-24	28-Jan-25	27-Feb-25			DS3900: FS					
DS3920	Resubmission of SAT Plan for Operation Facility	12	28-Dec-24	11-Jan-25	28-Feb-25	13-Mar-25			DS3910: FS					
DS3930	Approval of SAT Plan for Operation Facility	24	13-Jan-25	12-Feb-25	14-Mar-25	11-Apr-25			DS3920: FS, SC2710: FF					
Speed Enforcement System		84	01-Nov-24	12-Feb-25	30-Dec-24	11-Apr-25								
DS3940	Submission of Speed Enforcement System Reliability Test Plan	24	01-Nov-24	28-Nov-24	30-Dec-24	27-Jan-25			DS3380: FS					
DS3950	Comment on Reliability Test Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Nov-24	27-Dec-24	28-Jan-25	27-Feb-25			DS3940: FS					
DS3960	Resubmission of Reliability Test Plan for Speed Enforcement System	12	28-Dec-24	11-Jan-25	28-Feb-25	13-Mar-25			DS3950: FS					
DS3970	Approval of Reliability Test Plan for Speed Enforcement System	24	13-Jan-25	12-Feb-25	14-Mar-25	11-Apr-25			DS3960: FS, SC2380: FF					
Training Document & O&M Manual Submission for T2/TKOLTT TCSS		65	06-Dec-24	25-Feb-25	26-Sep-25	13-Dec-25								
DS3980	Submit Document for System Description	6	06-Dec-24	12-Dec-24	26-Sep-25	03-Oct-25			DS3580: SS 30					
DS4010	Submit System Administration Manual	11	13-Dec-24	26-Dec-24	04-Oct-25	17-Oct-25			DS3980: FS					
DS4020	Submit Training Manual	48	27-Dec-24	25-Feb-25	18-Oct-25	13-Dec-25			DS4010: FS					
Site Installation and Testing & Commissioning		426	01-Nov-24	29-Sep-25	12-Jun-24	26-Mar-27	01-Apr-24							
Installation & Testing Related to Stage 2 of Works		300	01-Nov-24	29-Sep-25	13-Jul-24	26-Mar-27	01-Sep-24							
Installation		121	01-Nov-24	26-Feb-25	13-Jul-24	26-Mar-27	01-Sep-24							
Portion 4 - TKO-LTT (LT Interchange)		64	08-Nov-24	23-Jan-25	13-Jul-24	03-Feb-25								
SW1930	Install Cable Containments	44	08-Nov-24	30-Dec-24	13-Jul-24	02-Sep-24			DS6404: FS, DS6540: FS, SW1020: SS 2					
SW1950	Laying of Signal Cable - the 1st Section	44	08-Nov-24	30-Dec-24	14-Oct-24	03-Dec-24			SW1040: SS					
SW1940	Install CCTV Camera	36	22-Nov-24	04-Jan-25	18-Dec-24	03-Feb-25			SW1040: SS 12, SW1930: SS 12, DS4090: FS, DS6440: FS					
SW1960	Install Equipment in Kiosk C	12	10-Jan-25	23-Jan-25	20-Nov-24	03-Dec-24			SW1050: FS, DS4340: FS, DS4440: FS					
Portion 1 - South Apron Up to SJS		66	06-Dec-24	26-Feb-25	18-Jul-24	04-Oct-24								



■ Remaining Work ◆ Milestone
■ Actual Work
■ Critical Activity

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				2025
										Oct	Nov	Dec	Jan	
										34	35	36	37	
SW2000	Install Cable Containments - the 1st Section	48	06-Dec-24	05-Feb-25	18-Jul-24	11-Sep-24			SW1220: FS, SC2480: FF, DS6404: FS, DS6540: FS					
SW2010	Install CCTV Camera	24	27-Jan-25	26-Feb-25	05-Sep-24	04-Oct-24			SW2000: SS 42, SC1470: FF, DS4090: FS, DS6440: FS					
Portion 2 - Tunnel Section, Service Gallery, WVB & EVB		116	01-Nov-24	20-Feb-25	02-Sep-24	26-Mar-27	01-Sep-24							
SW2080	Install Cable Containments	75	01-Nov-24	28-Jan-25	02-Sep-24	26-Mar-27	01-Sep-24		SW2300: SS, SW2400: SS, SW2510: SS, SW2600: SS, SW2720: SS					
SW2100	Install ET	64	01-Nov-24	16-Jan-25	07-Jan-25	26-Mar-27			SW2340: SS, SW2480: SS, SW2590: SS, SW2680: SS, SW2820: SS					
SW2120	Signal Cable Laying	91	01-Nov-24	20-Feb-25	09-Oct-24	26-Mar-27			SW2500: SS, SW2710: SS, SW2790: SS					
SW2090	Install CCTV Camera	65	12-Nov-24	28-Jan-25	01-Nov-24	26-Mar-27			SW2310: SS, SW2430: SS, SW2550: SS, SW2640: SS, SW2760: SS					
SW2110	Install Radio System in Service Gallery	64	25-Nov-24	12-Feb-25	02-Jan-25	26-Mar-27			SW2390: SS, SW2470: SS, SW2570: SS, SW2660: SS, SW2800: SS					
SW2130	Laying of Leaky Cable	58	10-Dec-24	20-Feb-25	19-Feb-25	26-Mar-27			SW2850: SS					
Portion 3 - CKL Branch Tunnel in TKO-LTT Site		58	13-Nov-24	21-Jan-25	07-Feb-25	22-Apr-25								
SW2230	Install Cable Containments	36	13-Nov-24	24-Dec-24	13-Feb-25	26-Mar-25			SW1860: FS, SC2480: FF, DS6404: FS, DS6540: FS					
SW2220	Install CCTV Camera	29	19-Nov-24	21-Dec-24	07-Feb-25	12-Mar-25			SW1860: SS 12, SC1470: FF, DS4090: FS, DS6440: FS					
SW2250	Signal Cable Laying	36	04-Dec-24	16-Jan-25	11-Mar-25	22-Apr-25			SW2230: SS 18, SW1900: FF, SW2220: SS 6, SW1880: SS 6					
SW2240	Laying of Leaky Cable	36	09-Dec-24	21-Jan-25	21-Feb-25	03-Apr-25			SW2230: SS 6, SW2220: SS 12, SW1880: SS 12, SW1900: FF 6, SW1870: SS 22					
Underpass S21		30	01-Nov-24	05-Dec-24	26-Apr-25	03-Jun-25								
SW2260	Install Cable Containment	14	01-Nov-24	16-Nov-24	26-Apr-25	14-May-25			AC1040: SS, SC2480: FF, DS6404: FS, DS6540: FS					
SW2280	Laying of Leaky Cable	30	01-Nov-24	05-Dec-24	26-Apr-25	03-Jun-25			SW2260: SS					
SW2290	Laying of Power Cable From TCSS Cabinet in T2 Area	14	09-Nov-24	25-Nov-24	17-May-25	03-Jun-25			SW2260: SS 7					
SW2270	Install YAGI Antenna	7	18-Nov-24	25-Nov-24	26-May-25	03-Jun-25			SW2260: FS					
Testing		215	13-Jan-25	29-Sep-25	04-Feb-25	26-Mar-27								
TC1590	Testing of FS-related TCSS Equipment	215	13-Jan-25	29-Sep-25	04-Feb-25	26-Mar-27			TC1400: SS, TC1600: SS, TC1040: SS, TC1170: SS, TC1270: SS, TC1390: SS, TC1010: SS, TC1140: SS, TC1330: SS, TC1370: SS, TC1350: SS					
Portion 4 - TKO-LTT (LT Interchange)		92	06-Nov-24	26-Feb-25	11-Jul-24	03-Feb-25								
SW1020	Inspect Civil Provisions & Submit Inspection Report	12	06-Nov-24	19-Nov-24	11-Jul-24	24-Jul-24			AC1030: SS 5, DS6600: FS, DS6680: FS, DS6760: FS, DS6840: FS					
SW1030	Rectify Civil Provision Defects by Others	18	20-Nov-24	10-Dec-24	31-Aug-24	21-Sep-24			SW1020: FS					
Installation Works		90	08-Nov-24	26-Feb-25	13-Jul-24	03-Feb-25								
SW1040	Install Cable Containments	44	08-Nov-24	30-Dec-24	13-Jul-24	02-Sep-24			DS6400: FS, DS6540: FS, SW1020: SS 2					
SW1080	Laying of Signal Cable - the 1st Section	44	08-Nov-24	30-Dec-24	14-Oct-24	03-Dec-24			SW1040: SS, SW1930: SS, DS8480: FS, DS8580: FS					
SW1130	Install VLSL on Gantry	65	08-Nov-24	24-Jan-25	17-Oct-24	02-Jan-25			SC1210: FF, DS2810: FS, EM1650: SS, SW1040: SS, DS5920: FS					
SW1140	Install PVMS on Gantry	65	08-Nov-24	24-Jan-25	14-Nov-24	03-Feb-25			SC1210: FF, EM1030: SS, DS2810: FS, SW1040: SS, DS5920: FS					



■ Remaining Work ◆ ◆ Milestone
■ Actual Work
■ Critical Activity

Date	Revision	Checked	Approved
31-Oct-24	Rev. 0	MY	

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				2025
										Oct 34	Nov 35	Dec 36	Jan 37	
SW1060	Install CCTV Camera	36	22-Nov-24	04-Jan-25	23-Oct-24	03-Dec-24			SW1040: SS 12, SW1930: SS 12, DS4090: FS, DS6440: FS					
SW1070	Install Detection Camera	36	22-Nov-24	04-Jan-25	23-Oct-24	03-Dec-24			SW1040: SS 12, SW1930: SS 12, DS4490: FS, DS6440: FS, DS7500: FS					
SW1050	Install Equipment Racks	24	11-Dec-24	09-Jan-25	23-Sep-24	22-Oct-24			SW1030: FS					
SW1110	Install Traffic Control Devices	48	28-Dec-24	26-Feb-25	31-Aug-24	29-Oct-24			SW1040: SS 42, SW1930: SS 42, DS2810: FS, EM1650: FS, DS8250: FS					
SW1100	Install Server Equipment	36	10-Jan-25	24-Feb-25	23-Oct-24	03-Dec-24			SW1050: FS, DS4440: FS, DS4340: FS					
SW1120	Install Equipment in Kiosk C	12	10-Jan-25	23-Jan-25	20-Nov-24	03-Dec-24			SW1050: FS, DS4340: FS, DS4440: FS					
SW1170	Install Manual Barriers	24	25-Jan-25	25-Feb-25	03-Jan-25	03-Feb-25			SW1130: FS, SW1140: SS 18					
Portion 1 - South Apron Up to SUS		96	01-Nov-24	26-Feb-25	12-Jun-24	04-Oct-24								
SW1210	Inspect Civil Provisions & Submit Inspection Report	12	01-Nov-24	14-Nov-24	12-Jun-24	25-Jun-24			AC1000: SS					
SW1220	Rectify Civil Provision Defects by Others	18	15-Nov-24	05-Dec-24	26-Jun-24	17-Jul-24			SW1210: FS					
Installation Works		66	06-Dec-24	26-Feb-25	18-Jul-24	04-Oct-24								
SW1230	Install Cable Containments - the 1st Section	48	06-Dec-24	05-Feb-25	18-Jul-24	11-Sep-24			SW1220: FS, SC2480: FF, DS6404: FS, DS6540: FS					
SW1250	Install Detection Cameras	24	20-Dec-24	18-Jan-25	05-Sep-24	04-Oct-24			SW1230: SS 12, SW2000: SS 12, DS4490: FS, DS6440: FS, DS7500: FS					
SW1240	Install CCTV Camera	24	27-Jan-25	26-Feb-25	05-Sep-24	04-Oct-24			SW1230: SS 42, SC1470: FF, DS4090: FS, DS6440: FS					
Portion 2 - Tunnel Section, Service Gallery, WVB & EVB		242	01-Nov-24	20-Feb-25	24-Aug-24	26-Mar-27	01-Apr-24							
Tunnel Section		116	01-Nov-24	20-Feb-25	24-Aug-24	26-Mar-27	01-Sep-24							
Tunnel Section - CH 6+568 to CH 7+100		99	01-Nov-24	28-Jan-25	24-Aug-24	26-Mar-27	01-Sep-24							
SW2860	Inspect Civil Provisions & Submit Inspection Report	3	01-Nov-24	04-Nov-24	17-Mar-27	19-Mar-27			AC1050: SS					
SW2870	Rectify Civil Provision Defects by Others	6	05-Nov-24	11-Nov-24	20-Mar-27	26-Mar-27			SW2860: FS					
Installation Works		99	01-Nov-24	28-Jan-25	24-Aug-24	22-Mar-25	01-Sep-24							
SW2300	Install Cable Containment	75	01-Nov-24	28-Jan-25	24-Aug-24	21-Nov-24	01-Sep-24		SC2480: FF, DS6540: FS, AC1050: SS					
SW2340	Install ET	50	01-Nov-24	30-Dec-24	07-Jan-25	08-Mar-25			DS4190: FS, DS6080: FS, DS6480: FS, SW2300: SS					
SW2370	Install PA in Service Gallery	50	01-Nov-24	30-Dec-24	23-Dec-24	24-Feb-25			SW2300: SS 40, DS4240: FS, DS6480: FS, DS6120: FS					
SW2310	Install CCTV Camera	65	12-Nov-24	28-Jan-25	01-Nov-24	17-Jan-25			SW2360: SS, SC1470: FF, DS4090: FS, DS6440: FS					
SW2320	Install Detection Camera	65	12-Nov-24	28-Jan-25	01-Nov-24	17-Jan-25			SW2310: SS, SC2120: FF, DS6440: FS, DS7500: FS, EM1530: FS					
SW2330	Install SEC Camera	65	12-Nov-24	28-Jan-25	03-Jan-25	22-Mar-25			SW2320: SS, EM1130: FS, DS7410: FS					
SW2350	Install Traffic Control Devices	65	12-Nov-24	28-Jan-25	04-Dec-24	22-Feb-25			SW2300: SS, SC1210: FF, DS2810: FS, EM1650: SS, DS8240: FS					
SW2360	Install VLSL	65	12-Nov-24	28-Jan-25	01-Nov-24	17-Jan-25			SW2300: SS 18, SC1210: FF, DS2810: FS, EM1650: SS, DS8240: FS					
SW2380	Install PABX in Service Gallery	54	25-Nov-24	28-Jan-25	02-Jan-25	08-Mar-25			SW2370: SS 7, DS4140: FS, DS6480: FS, DS6040: FS					
SW2390	Install Radio System in Service Gallery	54	25-Nov-24	28-Jan-25	02-Jan-25	08-Mar-25			SW2380: SS, DS4390: FS, DS6520: FS					
Tunnel Section - CH 7+100 to CH 7+600		99	01-Nov-24	28-Jan-25	24-Aug-24	26-Mar-27	01-Sep-24							
SW2880	Inspect Civil Provisions & Submit Inspection Report	3	01-Nov-24	04-Nov-24	17-Mar-27	19-Mar-27			AC1060: SS					
SW2890	Rectify Civil Provision Defects by Others	6	05-Nov-24	11-Nov-24	20-Mar-27	26-Mar-27			SW2880: FS					
Installation Works		99	01-Nov-24	28-Jan-25	24-Aug-24	28-Apr-25	01-Sep-24							



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				2025
										Oct 34	Nov 35	Dec 36	Jan 37	
SW2400	Install Cable Containment	75	01-Nov-24	28-Jan-25	24-Aug-24	21-Nov-24	01-Sep-24		SC2480: FF, DS6404: FS, DS6540: FS, AC1060: SS					
SW2410	Install PA in Service Gallery	50	01-Nov-24	30-Dec-24	23-Dec-24	24-Feb-25			SW2400: SS 40, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS					
SW2480	Install ET	50	01-Nov-24	30-Dec-24	07-Jan-25	08-Mar-25			SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS, SW2400: SS 35					
SW2490	Install GOFS (CH 6+568 to CH 7+100)	74	01-Nov-24	28-Jan-25	28-Jan-25	28-Apr-25			SC2570: FF, DS8560: FS, SW2400: SS 17					
SW2500	Signal Cable Laying and Termination (CH 6+568 to CH 7+100)	74	01-Nov-24	28-Jan-25	09-Oct-24	06-Jan-25			SC2480: FF, DS8560: FS, SW2400: SS 17					
SW2420	Install VLSL	65	12-Nov-24	28-Jan-25	01-Nov-24	17-Jan-25			SW2400: SS 18, SC1210: FF, DS2810: FS, EM1650: SS, DS8240: FS					
SW2430	Install CCTV Camera	65	12-Nov-24	28-Jan-25	01-Nov-24	17-Jan-25			SW2420: SS, SC1470: FF, DS4090: FS, DS6440: FS					
SW2450	Install Detection Camera	65	12-Nov-24	28-Jan-25	01-Nov-24	17-Jan-25			SW2430: SS, SC2120: FF, DS6440: FS, DS7500: FS, EM1530: FS					
SW2460	Install Traffic Control Devices	65	12-Nov-24	28-Jan-25	04-Dec-24	22-Feb-25			SW2400: SS, SC1210: FF, DS2810: FS, EM1650: SS, DS8240: FS					
SW2440	Install PABX in Service Gallery	54	25-Nov-24	28-Jan-25	02-Jan-25	08-Mar-25			SW2410: SS 7, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS					
SW2470	Install Radio System in Service Gallery	54	25-Nov-24	28-Jan-25	02-Jan-25	08-Mar-25			SW2440: SS, SC1990: FF, DS4390: FS, DS6520: FS					
Tunnel Section - CH 7+600 to CH 8+100		99	01-Nov-24	28-Jan-25	24-Aug-24	26-Mar-27	01-Sep-24							
SW2900	Inspect Civil Provisions & Submit Inspection Report	3	01-Nov-24	04-Nov-24	17-Mar-27	19-Mar-27			AC1070: SS					
SW2910	Rectify Civil Provision Defects by Others	6	05-Nov-24	11-Nov-24	20-Mar-27	26-Mar-27			SW2900: FS					
Installation Works		99	01-Nov-24	28-Jan-25	24-Aug-24	08-Mar-25	01-Sep-24							
SW2510	Install Cable Containment	75	01-Nov-24	28-Jan-25	24-Aug-24	21-Nov-24	01-Sep-24		SC2480: FF, EM1620: FF, DS6404: FS, DS6540: FS, AC1070: SS					
SW2530	Install PA in Service Gallery	50	01-Nov-24	30-Dec-24	23-Dec-24	24-Feb-25			SW2510: SS 40, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS					
SW2590	Install ET	50	01-Nov-24	30-Dec-24	07-Jan-25	08-Mar-25			SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS, SW2510: SS 35					
SW2520	Install VLSL	65	12-Nov-24	28-Jan-25	01-Nov-24	17-Jan-25			SW2510: SS 12, SC1210: FF, DS2810: FS, EM1650: SS, DS8240: FS					
SW2540	Install Traffic Control Devices	65	12-Nov-24	28-Jan-25	04-Dec-24	22-Feb-25			SW2510: SS, SC1210: FF, DS2810: FS, EM1650: SS, DS8240: FS					
SW2550	Install CCTV Camera	65	12-Nov-24	28-Jan-25	01-Nov-24	17-Jan-25			SW2520: SS, SC1470: FF, DS4090: FS, DS6440: FS					
SW2580	Install Detection Camera	65	12-Nov-24	28-Jan-25	01-Nov-24	17-Jan-25			SW2550: SS, SC2120: FF, DS6440: FS, DS7500: FS, EM1530: FS					
SW2560	Install PABX in Service Gallery	54	25-Nov-24	28-Jan-25	02-Jan-25	08-Mar-25			SW2530: SS 7, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS					
SW2570	Install Radio System in Service Gallery	54	25-Nov-24	28-Jan-25	02-Jan-25	08-Mar-25			SW2560: SS, SC1990: FF, DS4390: FS, DS6520: FS					
Tunnel Section - CH 8+100 to CH 8+750		84	01-Nov-24	12-Feb-25	04-Oct-24	28-Apr-25								
SW2920	Inspect Civil Provisions & Submit Inspection Report	3	01-Nov-24	04-Nov-24	04-Oct-24	07-Oct-24			AC1080: SS					
SW2930	Rectify Civil Provision Defects by Others	6	05-Nov-24	11-Nov-24	08-Oct-24	15-Oct-24			SW2920: FS					
Installation Works		75	12-Nov-24	12-Feb-25	16-Oct-24	28-Apr-25								



■ Remaining Work ◆ Milestone
■ Actual Work
■ Critical Activity

Date	Revision	Checked	Approved
31-Oct-24	Rev. 0	MY	

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				2025
										Oct	Nov	Dec	Jan	
										34	35	36	37	
SW2600	Install Cable Containment	24	12-Nov-24	09-Dec-24	16-Oct-24	12-Nov-24			SC2480: FF, SW2930: FS, DS6404: FS, DS6540: FS					
SW2620	Install PA in Service Gallery	24	26-Nov-24	23-Dec-24	16-Jan-25	15-Feb-25			SW2600: SS 12, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS					
SW2610	Install VLSL	18	02-Dec-24	21-Dec-24	28-Nov-24	18-Dec-24			SW2600: SS 12, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS					
SW2630	Install Traffic Control Devices	24	03-Dec-24	31-Dec-24	23-Jan-25	22-Feb-25			SW2600: SS 18, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS					
SW2650	Install PABX in Service Gallery	24	10-Dec-24	08-Jan-25	03-Feb-25	01-Mar-25			SW2620: SS 12, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS					
SW2700	Install GOFS (CH 7+600 to CH 8+750)	45	10-Dec-24	05-Feb-25	06-Mar-25	28-Apr-25			SW2600: FS, SC2570: FF, DS8560: FS					
SW2710	Signal Cable Laying and Termination (CH 7+600 to CH 8+750)	45	10-Dec-24	05-Feb-25	13-Nov-24	06-Jan-25			SW2600: FS, SC2480: FF					
SW2640	Install CCTV Camera	18	16-Dec-24	07-Jan-25	12-Dec-24	03-Jan-25			SW2610: SS 12, SC1470: FF, DS4090: FS, DS6440: FS					
SW2670	Install Detection Camera	18	31-Dec-24	21-Jan-25	27-Dec-24	17-Jan-25			SW2640: SS 12, SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS					
SW2680	Install ET	12	02-Jan-25	15-Jan-25	24-Feb-25	08-Mar-25			SW2630: FS, SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS					
SW2660	Install Radio System in Service Gallery	24	13-Jan-25	12-Feb-25	10-Feb-25	08-Mar-25			SW2650: SS 6, SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS					
SW2690	Install SEC Camera	18	15-Jan-25	07-Feb-25	03-Mar-25	22-Mar-25			SW2670: SS 12, SC2390: FF, EM1130: FS, DS6320: FS, DS7410: FS					
Tunnel Section - CH 8+750 to CH 9+250		86	07-Nov-24	20-Feb-25	07-Nov-24	07-May-25								
SW2940	Inspect Civil Provisions & Submit Inspection Report	1	07-Nov-24	07-Nov-24	07-Nov-24	07-Nov-24			AC1090: SS					
SW2950	Rectify Civil Provision Defects by Others	4	08-Nov-24	12-Nov-24	08-Nov-24	12-Nov-24			SW2940: FS					
Installation Works		81	13-Nov-24	20-Feb-25	13-Nov-24	07-May-25								
SW2720	Install Cable Containment	23	13-Nov-24	09-Dec-24	13-Nov-24	09-Dec-24			SC2480: FF, SW2950: FS, DS6404: FS, DS6540: FS					
SW2730	Install VLSL	13	10-Dec-24	24-Dec-24	17-Jan-25	04-Feb-25			SW2720: FS, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS					
SW2740	Install PA in Service Gallery	19	10-Dec-24	02-Jan-25	01-Mar-25	22-Mar-25			SW2720: FS, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS					
SW2750	Install Traffic Control Devices	19	10-Dec-24	02-Jan-25	08-Mar-25	29-Mar-25			SW2720: FS, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS					
SW2780	Install GOFS (CH 7+600 to CH 8+750)	58	10-Dec-24	20-Feb-25	19-Feb-25	28-Apr-25			SW2720: FS, SC2570: FF, DS8560: FS					
SW2790	Signal Cable Laying and Termination (CH 7+600 to CH 8+750)	58	10-Dec-24	20-Feb-25	10-Dec-24	20-Feb-25			SW2720: FS, SC2480: FF					
SW2850	Laying of Leaky Cable	58	10-Dec-24	20-Feb-25	19-Feb-25	28-Apr-25			SW2720: FS					
SW2760	Install CCTV Camera	18	18-Dec-24	09-Jan-25	25-Jan-25	18-Feb-25			SW2730: SS 7, SC1470: FF, DS4090: FS, DS6440: FS					
SW2770	Install PABX in Service Gallery	22	20-Dec-24	16-Jan-25	12-Mar-25	07-Apr-25			SW2740: SS 9, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS					
SW2810	Install Detection Camera	18	03-Jan-25	23-Jan-25	12-Feb-25	04-Mar-25			SW2760: SS 12, SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS					
SW2820	Install ET	12	03-Jan-25	16-Jan-25	31-Mar-25	14-Apr-25			SW2750: FS, SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS					



■ Remaining Work ◆ ◆ Milestone
■ Actual Work
■ Critical Activity

Date	Revision	Checked	Approved
31-Oct-24	Rev. 0	MY	

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				2025
										Oct	Nov	Dec	Jan	
										34	35	36	37	
SW2800	Install Radio System in Service Gallery	22	13-Jan-25	10-Feb-25	26-Mar-25	21-Apr-25			SW2770: SS 6, SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS					
SW2830	Install SEC Camera	18	13-Jan-25	05-Feb-25	15-Apr-25	07-May-25			SW2810: SS 6, SC2390: FF, EM1130: FS, DS6320: FS, DS7410: FS					
SW2840	Install PVMS	12	20-Jan-25	05-Feb-25	22-Apr-25	07-May-25			SW2830: SS 6, SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS					
West Ventilation Building		225	01-Nov-24	28-Jan-25	06-Sep-24	05-Mar-25	01-Apr-24							
Installation Works		225	01-Nov-24	28-Jan-25	06-Sep-24	05-Mar-25	01-Apr-24							
SW1650	Install Cable Containments	24	01-Nov-24	20-Jan-25	06-Sep-24	26-Nov-24	01-Apr-24		SC2480: FF, DS6400: FS, DS6540: FS					
SW1660	Position Equipment Rack	10					19-Sep-24	30-Sep-24	SW1650: SS 10, DS4610: FS 18					
SW1720	Install PA Equipment	28	27-Nov-24	30-Dec-24	27-Dec-24	01-Feb-25			SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS, DS8650: FS 12					
SW1670	Install Network Equipment	36	16-Dec-24	28-Jan-25	03-Jan-25	17-Feb-25			SW1660: FS, SC1330: FF, DS4340: FS, DS4440: FS, DS3050: FS 22					
SW1690	Install PABX Equipment	27	27-Dec-24	28-Jan-25	27-Jan-25	01-Mar-25			SW1650: SS 18, SC1590: FF, DS4140: FS, DS6480: FS, SW1720: SS 25					
SW1680	Install Manual Fallback Control Equipment	24	31-Dec-24	28-Jan-25	06-Feb-25	05-Mar-25			SW1670: SS 12, EM1110: FS, SC2240: FF, DS6240: FS, DS7370: FS, DS8310: FS					
SW1730	Install ET Equipment	12	31-Dec-24	14-Jan-25	20-Feb-25	05-Mar-25			SW1720: FS, SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS					
East Ventilation Building		84	01-Nov-24	12-Feb-25	20-Nov-24	26-Mar-27								
SW2960	Inspect Civil Provisions & Submit Inspection Report	12	01-Nov-24	14-Nov-24	20-Feb-27	05-Mar-27			AC1010: SS, KD1010: FS					
SW2970	Rectify Civil Provision Defects by Others	18	15-Nov-24	05-Dec-24	06-Mar-27	26-Mar-27			SW2960: FS					
Installation Works		84	01-Nov-24	12-Feb-25	20-Nov-24	05-Mar-25								
SW1750	Install Cable Containments	24	01-Nov-24	28-Nov-24	20-Nov-24	17-Dec-24			SC2480: FF, DS6400: FS, DS6540: FS					
SW1790	Install PABX Equipment	20	25-Nov-24	17-Dec-24	26-Dec-24	18-Jan-25			SW1750: SS 18, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS					
SW1760	Position Equipment Rack	12	29-Nov-24	12-Dec-24	18-Dec-24	02-Jan-25			SW1750: FS					
SW1770	Install Network Equipment	36	13-Dec-24	25-Jan-25	03-Jan-25	17-Feb-25			SW1760: FS, SC1330: FF, DS4340: FS, DS4440: FS					
SW1780	Install Manual Fallback Control Equipment	24	28-Dec-24	25-Jan-25	06-Feb-25	05-Mar-25			SW1770: SS 12, EM1110: FS, SC2240: FF, DS6240: FS, DS7370: FS, DS8310: FS					
SW1810	Install Radio Equipment	12	13-Jan-25	25-Jan-25	20-Jan-25	05-Feb-25			SW1790: FS, SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS					
SW1820	Install PA Equipment	12	27-Jan-25	12-Feb-25	06-Feb-25	19-Feb-25			SW1810: FS, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS					
Portion 3 - CKL Branch Tunnel in TKO-LTT Site		95	01-Nov-24	25-Feb-25	11-Jan-25	19-Jun-25								
SW1850	Inspect Civil Provisions & Submit Inspection Report	3	01-Nov-24	04-Nov-24	11-Jan-25	14-Jan-25			AC1020: SS					
SW1860	Rectify Civil Provision Defects by Others	7	05-Nov-24	12-Nov-24	15-Jan-25	22-Jan-25			SW1850: FS					
Installation Works		68	13-Nov-24	05-Feb-25	23-Jan-25	22-Apr-25								
SW1870	Install CCTV Camera	29	13-Nov-24	16-Dec-24	23-Jan-25	28-Feb-25			SW1860: FS, SC1470: FF, DS4090: FS, DS6440: FS					
SW1880	Install Detection Camera	29	13-Nov-24	16-Dec-24	07-Feb-25	12-Mar-25			SW1860: FS, SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS					



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				2025
										Oct	Nov	Dec	Jan	
										34	35	36	37	
SW1890	Install Cable Containments	36	13-Nov-24	24-Dec-24	01-Feb-25	14-Mar-25			SW1860: FS, SC2480: FF, DS6404: FS, DS6540: FS					
SW1900	Install Traffic Control Devices	24	02-Dec-24	30-Dec-24	28-Feb-25	27-Mar-25			SW1870: SS 9, SW1880: SS 9, SW2220: SS 9, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS					
SW1910	Laying of Leaky Cable	36	09-Dec-24	21-Jan-25	22-Feb-25	04-Apr-25			SW1890: SS 6, SW1870: SS 22, SW1880: SS, SW1900: FF 6					
SW1920	Signal Cable Laying	36	20-Dec-24	05-Feb-25	11-Mar-25	22-Apr-25			SW1890: SS 32, SW1900: FF, SW1870: SS 6, SW1880: SS 6					
Site Commissioning Test		15	13-Jan-25	01-Feb-25	27-Mar-25	02-May-25								
TC1370	SCT of ET System	10	13-Jan-25	23-Jan-25	21-Apr-25	02-May-25			SW1920: SS 18, SW1910: SS 18, DS3170: FS, SW2250: SS 18, SW2240: SS 18, SC1750: FF					
TC1380	SCT of Power Distribution System	15	13-Jan-25	01-Feb-25	27-Mar-25	14-Apr-25			SW1890: FS, SW1910: SS 28, DS3450: FS, SW2230: FS, SW2240: SS 24, SC2500: FF					
TC1390	SCT of CCTV System	5	20-Jan-25	24-Jan-25	09-Apr-25	14-Apr-25			SW1870: FS, SW1920: SS 24, SW1910: SS 18, DS3090: FS, SW2220: FS, SW2250: SS 24, SW2240: SS 18, SC1500: FF					
Submit Site Commissioning Test Report		25	24-Jan-25	25-Feb-25	22-May-25	19-Jun-25								
DS5160	Submit ET System SCT Test Report	24	24-Jan-25	24-Feb-25	22-May-25	19-Jun-25			TC1370: FS					
DS5170	Submit CCTV System SCT Test Report	24	25-Jan-25	25-Feb-25	22-May-25	19-Jun-25			TC1390: FS					



■ Remaining Work ◆ ◆ Milestone
■ Actual Work
■ Critical Activity

Date	Revision	Checked	Approved
31-Oct-24	Rev. 0	MY	