Civil Engineering and Development Department

Trunk Road T2

Monthly Environmental Monitoring and Audit Report (under EP-451/2013)

March 2024

(Version 1.0)

Approved By	Jac
	(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

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Ref.: CEDKTDT2EM00_0_0598L.24

11 April 2024

By Post and Email

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

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 (March 2024) for EP-451/2013

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for March 2024 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 11 April 2024. We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 of EP-451/2013.

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 Fax: 2739 0076 By email Fax: 3107 1388

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Table of contents

		Page
EX	XECUTIVE SUMMARY	1
	Introduction Summary of Main Works Undertaken and Key Measures Implemented Summary of Exceedances, Investigation and Follow-up Complaint Handling, Prosecution and Public Engagement	
	Reporting Changes Future Key Issues Review of Status and Location of Monitoring Stations	3
1	INTRODUCTION	5
	Background Purpose of the Report Project Organizations Construction Activities undertaken during the Reporting Month Status of Environmental Licensing and Permitting	6 6 7
2	AIR QUALITY	
	Monitoring Requirement Monitoring Locations Monitoring Parameters and Frequency Monitoring Equipment Monitoring Methodology Results and Observations Comparison of EM&A Result with EIA Prediction	
3	NOISE	
	Monitoring Requirements Monitoring Locations. Monitoring Parameters, Frequency and Duration. Monitoring Equipment. Monitoring Methodology and QA/QC Procedure Maintenance and Calibration Results and Observations. Comparison of EM&A Result with EIA Prediction	
4	WATER QUALITY	20
	Monitoring Requirement	
5	MARINE ECOLOGY	20
6	FISHERIES	20
7	LANDSCAPE AND VISUAL	21
8	CULTURAL HERITAGE	24
9	WASTE MANAGEMENT	24

10	ENVIRONMENTAL AUDIT	25
	Site Audits	25
	Implementation Status of Environmental Mitigation Measures	
	Implementation Status of Event and Action Plans	
	Status of Required Submission under Environmental Permit	
11	ENVIRONMENTAL NON-CONFORMANCE	
	Summary of Complaint, Warning, Notification of any Summons and Successful Prosed Summary of Exceedance	
12	FUTURE KEY ISSUES	
	Monitoring Schedule	
13	CONCLUSIONS AND RECOMMENDATIONS	
	Conclusions	
	Recommendations	

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	Summary of Complaint/Summons/Prosecution in the Reporting Month
Table IV	Summary Table for Site Activities in the next Reporting Period
Table V	Summary Table for Review of Status and Location of Monitoring Stations
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 (not used)
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	Major Noise Source during Noise Monitoring
Table 3.5	Baseline Noise Level and Noise Limit Level for Monitoring Stations
Table 3.6	Comparison of Noise Monitoring Data with Predictions in EIA Report
Table 7.1	Construction Phase Landscape and Visual Mitigation Measures
Table 7.2	Construction Phase Audit Checklist for Landscape and Visual Mitigation Measures
Table 10.1	Observations and Recommendations of Site Audit
Table 10.2	Status of Required Submission under Environmental Permit
Table 12.1	Summary Table for Site Activities and the Key Environmental Issues in the next
	Reporting Period

LIST OF FIGURES

- Figure 1.1 Layout Plan of the Project Site
- Figure 1.2 Project Organisation for Environmental Monitoring and Audit
- Figure 2 Locations of Air Quality and Construction Noise Monitoring Stations

LIST OF APPENDICES

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

EXECUTIVE SUMMARY

Introduction

1. This is the 49th Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for "Trunk Road T2". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-451/2013 and in accordance with the EM&A Manual (AEIAR-174/2013) during the reporting month of March 2024.

Summary of Main Works Undertaken and Key Measures Implemented

2. The main works of each works contracts 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	 West Ventilation Building RC Structure, ABWF, E&M Launching Shaft / Cut & Cover RC Structure Westbound TBM Tunnelling Eastbound TBM Tunnelling EB Service Gallery Installation WB Service Gallery Installation CP Tympanum Construction Cross Passage Finishing Sub-sea Corbel Construction Sub-sea Corbel Construction Sub-sea Road Level Fire Board Sub-sea OHVD Soffit Fire Board Sub-sea Parapet Installation SUS Remaining Internal Wall Sub-sea OHVD Slab Installation SUS Fire Board installation SUS Fire Board installation SUS Skin Wall Tunnel Segment delivery MiMEP Module Installation Sub-sea E&M Bracket installation Sub-sea E&M Bracket drilling Sub-sea E&M installation Eastbound cavern excavation
ED/2020/03	Trunk Road T2 - Traffic Control And Surveillance	 WVB Installation of cable containment RAT for Radio System FAT for CCTV System

System (TCSS)	and
Associated Works ⁽¹⁾	

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	 Air Quality Water spraying regularly on construction site area to avoid dust generation. Excavated dusty materials were covered by impervious sheets. Noise 			
	 Air compressor was operated with door closed and have valid noise labels. Use of Quality Powered Mechanical Equipment (QPME) Erecting noise barriers on site to minimize noise impact generated from breaking activities. 			
	Water Quality			
	• WetSep was constructed to treat the surface runoff prior to discharge.			
	Landscape and Visual			
	• Tree protection zone were fenced off to protect the existing tree.			
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	N/A			

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

Notes:

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

N/A: Not applicable

Summary of Exceedances, Investigation and Follow-up

4. Exceedance of Action/Limit levels during the reporting month (March 2024) and the investigation results and/or follow-up actions:

Air Quality Monitoring

• One (1) Action Level exceedance for 24-hour TSP was recorded.

• No Limit Level exceedance for 24-hour TSP was recorded.

Construction Noise Monitoring

- No Limit Level exceedance for day time construction noise was recorded in this reporting month.
- No Action Level exceedance was recorded in this reporting month.

Landscape and Visual Monitoring and Audit

• No non-compliance of the landscape and visual impact was recorded in the reporting month. The implementation of landscape and visual and mitigation measures was checked by a Registered Landscape Architect (RLA) during the environmental site inspections.

Complaint Handling, Prosecution and Public Engagement

Table III Summary of Complaint/Summons/Trosecution in the Reporting Month				
Event	Event Details		Follow-up/ Remedial Actions	Status/
Event	Number	Brief Description		Remarks
Complaints Received	0	-	-	-
Notification of Summons and Prosecutions Received	0	-	-	-
Public Engagement Activities	0	-	-	-

Table III Summary of Complaint/Summons/Prosecution in the Reporting Month

Reporting Changes

1) No reporting change in this reporting month.

Future Key Issues

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

Table IV	Summary	Table for	Site Activities	in the next Reportin	ng Period
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Contract No. and Project Title	Site Activities (April 2024)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and	1) West Ventilation Building RC Structure, ABWF, E&M	
Infrastructure Works	2) Launching Shaft / Cut & Cover RC	
for Developments at	Structure	$(\Lambda)/(\mathbf{P})/(\mathbf{C})/(\mathbf{D})$
South Apron	3) Westbound TBM Tunnelling	(A) / (B) / (C) / (D)
	4) Eastbound TBM Tunnelling	
	5) EB Service Gallery Installation	
	6) WB Service Gallery Installation	

	Monuny Extern Report - March 2024	
	7) CP Tympanum Construction	
	8) Cross Passage Finishing	
	9) Sub-sea Corbel Construction	
	10) Sub-sea Crown Fire Board	
	11) Sub-sea Road Level Fire Board	
	12) Sub-sea OHVD Soffit Fire Board	
	13) Sub-sea Parapet Installation	
	14) SUS Remaining Internal Wall	
	15) SUS Fire Board installation	
	16) Tunnel Segment delivery	
	17) Sub-sea OHVD Slab Installation	
	18) MiMEP Module Installation	
	19) Sub-sea E&M Bracket installation	
	20) Sub-sea E&M installation	
	21) Sub-sea E&M Bracket drilling	
	22) SUS Bracket instllation	
	23) Eastbound cavern excavation	
	24) SUS Skin Wall	
	25) SUS Bracket installation	
ED/2020/03 - Trunk		
Road T2 - Traffic		
Control And	1) Site survey	
Surveillance System	tem 2) Installation of cable containment at Gantry	
(TCSS) and		
Associated Works ⁽¹⁾		

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.

Review of Status and Location of Monitoring Stations

3) According to the EM&A Manual (AEIAR-174/2013), the number and location of the monitoring stations and parameters should be reviewed in every six months, or on as -needed basis, in order to cater for any changes in the surrounding environmental and the nature of works in progress. The latest review was conducted in January 2024 and the review of status and location of monitoring stations are summarized as follow:

Tuble i Summurg Tuble for Review of Status and Bocadon of Romooning Stations	Table V	Summary Table for Review	of Status and Location	of Monitoring Stations
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Monitoring Station ID	Review Status	Follow-up Action/ Recommendation
KTD 2d	ET has reviewed the status and location of KER1, KTD 1, KTD2d, CKL1 and	N7/4
KER1	CKL2. To conclude, the environmental monitoring conducted at KER1, KTD 1,	N/A

KTD 1	KTD2d, CKL 1 and CKL 2 are appropriate, and the monitoring results	
CKL 1	reflect how the sensitive receiver(s) is/are impacted by the construction activities of the Project.	
CKL 2	activities of the Project.	

N/A: Not Applicable

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 3.4km long with about 3.1km 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 Truck Road T2 Project which comprises mainly design and construction of the TCSS for this Project. The EM&A programme at Kai Tak area under the Contract ED/2018/04 and ED/2020/03 are governed by the EP-451/2013 and EM&A Manual (AEIAR-174/2013). The work areas of the Trunk Road T2 Project are shown in Figure 1 and the works to be executed under each Contract and corresponding EP are summarized as follows:

Environmental Permit	Works Description
EP-451/2013 – Trunk Road T2	<u>ED/2018/04</u>
	• 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

Monitoring Works in Kai Tak under EP-451/2013

1.4 Under Contract No. KL/2014/03 – Kai Tak Development – Stage 3 Infrastructure Works for Development at the Southern Part of the Former Runway ("T2 Advance Works"), the baseline

monitoring works in Kai Tak under the EM&A Manual (AEIAR-174/2013) were conducted by the Environmental Team (ET) for the Contract No. KL/2014/03 at the approved relocated monitoring locations (EPD reference: EP2/K19/A/21 pt.5), namely KTD1a, KTD2a & KER1a. During the impact monitoring period, monitoring locations KTD 2a and KER 1a were relocated to new locations, i.e. KTD 2b and KER 1b (EPD reference: () in EP2/K19/A/21 pt. 6 and () in EP2/K19/A/21 pt. 5) respectively. Location KTD2b was then further relocated to location KTD2c, the proposal of such relocation was submitted to EPD on 24 March 2020 and was approved by EPD on 6 April 2020 (EPD reference: () in EP2/K19/A/21 pt.7). The aforementioned relocation was effective from 9 April 2020. Since the major part of work under Contract No. KL/2014/03 has been completed and monitoring works conducted by the ET of Contract No. KL/2014/03 was determined to be ceased, the impact monitoring within the Kai Tak area was then handed over to the ET of Contract No. ED/2018/04 on 1 August 2020. The monitoring location has been reviewed and updated to obtain the data with higher representative based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to the monitoring location KTD1 and KER1 on 3 August 2020, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Location KTD2c was then further relocated to location KTD2d, the proposal of such relocation was submitted on 9 March 2021 and was approved by EPD on 27 March 2021 (EPD reference: () in EP2/K19/A/21 pt.8). The aforementioned relocation was effective from 24 May 2021. The impact monitoring for the three stations KTD1, KTD2d and KER1 are currently conducted by the ET of T2 Main Works

Monitoring Works in Cha Kwo Ling under EP-451/2013

- 1.5 The environmental impact of the remaining works in Cha Kwo Ling, under EP-451/2013, shall be monitored at the two proposed stations, namely CKL1, CKL2, in accordance to the EM&A Manual (AEIAR-174/2013). The impact monitoring for the two proposed stations shall be conducted by the ET of T2 Main Works.
- 1.6 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") and "Trunk Road T2 –Traffic Control & Surveillance System (TCSS) and Associated Works".

Purpose of the Report

1.7 This is the 49th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in March 2024.

Project Organizations

- 1.8 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)

1.9 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1Key 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
Cinetash	ech Environmental Team	Mr. KS Lee (ETL)	2151 2091
Cinotech		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

1.10 The Organizational Structure for Environmental Management is shown in Figure 1.2.

Construction Activities undertaken during the Reporting Month

1.11 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	• West Ventilation Building RC Structure,
		ABWF, E&M
	Developments at South	• Launching Shaft / Cut & Cover RC
	Apron	Structure
		 Westbound TBM Tunnelling
		 Eastbound TBM Tunnelling
		• EB Service Gallery Installation
		WB Service Gallery Installation
		CP Tympanum Construction
		 Cross Passage Finishing
		 Sub-sea Corbel Construction
		 Sub-sea Crown Fire Board
		 Sub-sea Road Level Fire Board
		 Sub-sea OHVD Soffit Fire Board
		 Sub-sea Parapet Installation

ED/2020/03	Trunk Road T2 – Traffic Control And Surveillance	 SUS Remaining Internal Wall Sub-sea OHVD Slab Installation SUS Fire Board installation SUS Skin Wall Tunnel Segment delivery MiMEP Module Installation Sub-sea E&M Bracket installation Sub-sea E&M Bracket drilling Sub-sea E&M installation Eastbound cavern excavation WVB Installation of cable containment
	System (TCSS) and Associated Works ⁽¹⁾	 WVB Installation of cable containment RAT for Radio System FAT for CCTV System

Notes:

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

N/A: Not applicable

- 1.12 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.
- 1.13 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 10** of this report.
- 1.14 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 March 2024.

Status of Environmental Licensing and Permitting

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

Table 1.3 Summary of Environmental License and Permit

Contract Permit / License No.		Valid Period		Status
No.	Fernint / License 100.	From	То	Status
Environment	Environmental Permit (EP)			
N/A	EP-451/2013	19 Sep 2013	N/A	Valid
Notification p	Notification pursuant to Air Pollution (Construction Dust) Regulation			
ED/2018/04	Ref. No.: 451120	20 Nov 2019	N/A	Valid

			iny Evia Repo	
Contract	Permit / License No.	Valid Period		Status
No.	Termit / Electise 100.	From	То	Status
ED/2020/03	Ref. No.: 483143	15 Aug 2022	N/A	Valid
Billing Accou	nt for Construction Waste Disposal			
ED/2018/04	A/C No.: 7036016	09 Dec 2019	N/A	Valid
ED/2020/03	A/C No.: 7043158	31 Jan 2022	N/A	Valid
Billing Accou	nt for Vessel Disposal			
ED/2018/04	A/C No.:7037747 (Application No.: CEDD01209)	26 Oct 2023	25 Jan 2024	Valid
Construction	Noise Permit			
	CNP No. (For Portion Q): GW- RE1557-23	21 Dec 2023	20 Apr 2024	Valid
ED/2018/04	CNP No. (For Launching Shaft and Barging Point): GW- RE0187-24	22 Feb 2024	18 Mar 2024	Expired on 18 Mar 2024
ED/2018/04	CNP No. (For Depressed Road): GW-RE0160-24	28 Feb 2024	29 Apr 2024	Valid
	CNP No. (For Launching Shaft and Barging Point): GW- RE0328-24	19 Mar 2024	13 Sep 2024	Valid
Wastewater Discharge License				
	WT00036183-2020 (For Depressed Road Area)	27 Jul 2020	31 Jul 2025	Valid
ED/2018/04	WT00039117-2021 (For Site Office and Support Area)	28 Sep 2021	30 Sep 2026	Valid
LD/2010/04	WT00036228-2020 (For Launching Shaft)	10 Nov 2021	31 Jul 2025	Valid
	WT10001495-2023 (For TBM Consumable Storage Area)	19 Mar 2024	13 Sep 2024	Valid
Chemical Waste Producer License				
ED/2018/04	WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid
Marine Dumping Permit				
ED/2018/04	EP/MD/24-067	3 Jan 2024	2 Apr 2024	Valid

2. AIR QUALITY

Monitoring Requirement

2.1 According to the EM&A Manual (AEIAR-174/2013), 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 24-hour TSP monitoring. In case of complaints, 1-hour TSP monitoring should be conducted at least three times in every six days when the highest dust impacts are likely to occur. 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. Table2.1 describes the air quality monitoring locations, which are also depicted in Figure 2.
- 2.3 The monitoring location at Kai Tak area has been reviewed and updated to obtain the data with higher representative based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to KTD1 and KER1 respectively, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Monitoring location KTD2c was then further relocated to KTD2d after the review of status and location of monitoring station conducted in between February and March 2021.

Monitoring Stations	Location
KTD1	Centre of Excellence in Paediatrics (Children's Hospital)
KTD2d	Next to the SOR Office of Trunk Road T2 in Kai Tak Area
KER1	Future Residential Development at Kerry Godown
CKL1	Flat 121 Cha Kwo Ling Village
CKL2	Flat 103 Cha Kwo Ling Village

Table 2.1 Air Quality Monitoring Locations

Monitoring Parameters and Frequency

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

Monitoring Stations	Parameter	Period	Frequency
KTD1, KTD2d, KER1, CKL1 & CKL2	1-hour TSP	0700 - 1900	3 times per 6 days (as required in case of complaints)
KTD1, KTD2d, KER1, CKL1 & CKL2	24-hour TSP	24 hours	Once every 6 days

Table 2.2 Frequency and Parameters of Air Quality Monitoring

Monitoring Equipment

- 2.5 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual (AEIAR-174/2013), Section 2.2.1.4, 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.
- 2.6 Wind data monitoring equipment was set at rooftop (about 41/F) of Yau Lai Estate Bik Lai House, Lam Tin for logging wind speed and wind direction such that the wind sensors were clear of obstructions or turbulence caused by building. The wind data monitoring equipment was recalibrated at least once every six months and the wind directions were divided into 16 sectors of 22.5 degrees each. Wind data is attached in **Appendix D**.
- 2.7 **Table 2.3** summarizes the equipment used for air quality monitoring. Copies of calibration certificates are attached in **Appendix C**.

	Equipment	Model	Quantity
HVS Sampler		TISCH Model: TE-5170 (Serial no. 0723, 1956, 10595, 1316, 5280)	5
Calibrator		TISCH Model: TE-5025A (Serial no. 3864)	1
	Wind Anemometer	Davis Weather Monitor II, Model no. 7440 (Serial no. MC01010A44)	1

 Table 2.3
 Air Quality Monitoring Equipment

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

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

(Sibata Model No.: LD-3B/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

- 2.9 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

- 2.10 High volume samplers (HVS) (TISCH Model: TE-5170) complete with appropriate sampling inlets was 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). Moreover, the HVS also met all the requirements in Section 2.2 of the Annex II Specification.
- 2.11 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 meter 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

- 2.12 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-174/2013). 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 aluminum 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 (High Precision Chemical Testing 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 \pm 3°C; the relative humidity (RH) should be < 50% and not vary by more than \pm 5%. A convenient working RH is 40%.

Maintenance/Calibration

- 2.13 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

- 2.14 Impact air quality monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**.
- 2.15 One (1) Action and no Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month. No exceedance of 24-hour TSP were considered as **project related** and one (1) exceedance of 24-hour TSP were considered as **non-project related**. Details of the exceedance are presented in **Appendix M**.
- 2.16 The air temperature, relative humidity, and the precipitation data were obtained from daily extracts of Hong Kong Observatory Climate Information Service. This weather information for the reporting month is summarized in **Appendix D**.
- 2.17 The monitoring data and graphical presentations of 24-hour TSP monitoring results are shown in **Appendix F**.
- 2.18 According to field observations observed in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

Monitoring Stations	Major Dust Source
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	 Project related construction activities (i.e., Loading and unloading of C&D wastes, drilling, crushing of material); Vehicle movement in the site;
KER 1 – Future Residential Development at Kerry Godown	 Construction activities at the nearby construction sites of New Acute Hospital; and, Road traffic along Shing Fung Road, Shing Cheong Road, Cheung Yip Street, Kai Hing Road and Kwun Tong Bypass.
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	 Project related construction activities (i.e., Loading and unloading of C&D material, crushing of material); Vehicle movement in the site; and, Non-project related construction activities (i.e excavating work, Loading and unloading of C&D wastes at the nearby construction site of Additional District Cooling System at Kai Tak Development, Paul Y. Engineering.)
CKL1 - Flat 121 Cha Kwo Ling Village	Road Traffic along Cha Kwo Ling Road
CKL2 - Flat 103 Cha Kwo Ling Village	Road Traffic along Cha Kwo Ling Road

Table 2.4 Major Dust Source during Air Quality Monitoring

Comparison of EM&A Result with EIA Prediction

2.19 The air monitoring data was compared with the predictions in Table 4.14 of EIA Report, AEIAR-174/2013 (as approved in 2013) as summarised in **Table 2.6** for 24-hour TSP.

 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- 174/2013), μg/m ³	Maximum 24-hr TSP Concentration in the Reporting Month (March 2024), µg/m ³
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	126.6
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A ⁽¹⁾	N/A ⁽¹⁾	150.1
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	129.5
CKL1 - Flat 121 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	173.5
CKL2 - Flat 103 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	205.3

Remarks:

(1) No 24-hr TSP concentration was predicted in EIA Report (AEIAR-174/2013)

2.20 In the reporting month the 24-hour TSP concentration at KER1 were lower than the prediction in the EIA Report, AEIAR-174/2013 (as approved in 2013). The 24-hour TSP concentration at KTD1 were higher than the prediction in the EIA Report, this may due to the construction activities at the nearby construction sites of New Acute Hospital. One (1) Action and no Limit level exceedance for 24-hour TSP was recorded in the reporting period.

3 NOISE

Monitoring Requirements

3.1 According to the EM&A Manual (AEIAR-174/2013), 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 KTD1, KTD2d, KER1, CKL1 and CKL2 in the reporting period. **Table 3.1** and **Figure 2** show the locations of these stations.
- 3.3 The monitoring location at Kai Tak area has been reviewed and updated to obtain the data with higher representative based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to KTD1 and KER1 respectively, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Monitoring location KTD2c was then further relocated to KTD2d after the review of status and location of monitoring station conducted in between February and March 2021.

Monitoring Stations	Location
KTD1	Centre of Excellence in Paediatrics (Children's Hospital)
KTD2d	Next to the SOR Office of Trunk Road T2 in Kai Tak Area
KER1	Future Residential Development at Kerry Godown
CKL1	Flat 121 Cha Kwo Ling Village
CKL2	Flat 103 Cha Kwo Ling Village

Table 3.1 Noise Monitoring Stations

Monitoring Parameters, Frequency and Duration

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

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Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
KTD1				1 (22) · · · ·	Façade Measurement
KTD2d				L ₁₀ (30 min.) dB(A)	Free Field Measurement
KER1	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L ₉₀ (30 min.) dB(A)	Free Field Measurement
CKL1	weekuays			$L_{eq}(30 \text{ min.})$	Free Field Measurement
CKL2				dB(A)	Free Field Measurement

Table 3.2 Frequency and Parameters of Noise Monitoring

Monitoring Equipment

3.5 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 within the reporting period. Copies of calibration certificates are attached in **Appendix G**.

Table 3.3	Noise Monitoring Equipment
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Equipment	Model	Quantity
	BSWA 308 (Serial no. 570188)	
Integrating Sound Level Meter	SVAN 957 (Serial no. 21455,23851)	4
	SVAN 959 (Serial no. 11275)	
	AWA6021A (Serial no. 1023253)	
Calibrator	ST-120 (Serial no.,181001637)	2

Monitoring Methodology and QA/QC Procedure

- 3.6 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}, L₉₀ and L₁₀ 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

- 3.7 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.8 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.9 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

- 3.10 Impact noise monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**. No Action and Level exceedance was recorded for day time construction noise monitoring in the reporting month.
- 3.11 Noise monitoring results and graphical presentations are shown in Appendix H.
- 3.12 According to field observations observed in the reporting period, the major noise sources identified at the noise monitoring stations are shown in **Table 3.4**.

Monitoring Stations	Major Noise Source	
KTD 1	 Project related construction activities (Loading and unloading of C&D waste, travel of vehicles, use of PME and other plants, and other construction activities); Vehicle movement in the site; Road traffic along Shing Cheong Road; and, Non-project related construction activities at the nearby construction site of New Acute Hospital. 	
KTD 2d	 Project related construction activities (Loading and unloading of C&D waste, travel of vehicles, use of PME and other plants, and other construction activities); Vehicle movement in the site; and, Non-project related construction activities. (i.e excavating work, Loading and unloading of C&D wastes at the nearby construction site of Additional District Cooling System at Kai Tak Development, Paul Y. Engineering.) 	

 Table 3.4
 Other Noise Source Identified during Noise Monitoring

Monitoring Stations	Major Noise Source
KER 1	 Road traffic along Kai Hing Road. Project related construction activities (Travel of vehicles, use of PME and other plants, and other construction activities)
CKL1	Road traffic along Cha Kwo Ling Road.
CKL2	Road traffic along Cha Kwo Ling Road

3.13 The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 3.5**.

Table 3.5 Baseline Noise Level and Noise Limit Level for Monitoring Stations	Table 3.5	Baseline Noise Level and	l Noise Limit L	Level for Monitoring Station	ns
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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)
KTD1	78	
KTD2d	64	
KER1	65	75
CKL1	72.4	
CKL2	71.4	

Comparison of EM&A Result with EIA Prediction

3.14 The noise monitoring data was compared with the predictions in Table 5.13 of EIA Report (AEIAR-174/2013) 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- 174/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (March 2024), Leq (30min) dB(A)
KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD1	74	71.0
KTD2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A ⁽¹⁾	N/A ⁽¹⁾	63.0
KER1 – Future Residential Development at Kerry Godown	KER1	75	68.0
CKL1 - Flat 121 Cha Kwo Ling Village	CKL4	71	72.0
CKL2 - Flat 103 Cha Kwo Ling Village	CKL5	69	75.0

Remarks:

(1): No Maximum Predicted Mitigated Construction Noise Levels was predicted in EIA Report (AEIAR-174/2013)

3.15 The results at CKL1 and CKL2 were higher than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-174/2013 (as approved in 2013), this may be due to fluctuations of traffic flow along the traffic flow along Cha Kwo Ling Road throughout the day. Besides, the result at KER1 and KTD1 were lower than the maximum predicted mitigated construction noise level in the EIA Report. No Action and Limit Level exceedance were recorded in the reporting period.

4 WATER QUALITY

Monitoring Requirement

- 4.1 According to Section 4.3.1.1 of EM&A Manual (AEIAR-174/2013), no water quality monitoring is required during the construction phase.
- 4.2 According to Section 4.3.1.5 of EM&A Manual (AEIAR-174/2013), compliance site audits are to be undertaken by the Engineer and ET and escorted by the Contractor to ensure that a valid discharge license has been issued by the EPD prior to the discharge of the effluent from the construction activities of the Project site. Monitoring of the quality of the treated effluent from the works areas should be carried out in accordance with the Water Pollution Control Ordinance (WPCO) license. The audit results reflect whether the effluent quality is in compliance with the discharge license requirements, the summaries of site audits are attached in **Appendix I**.
- 4.3 In the event of non-compliance the responsibilities of the relevant parties is detailed in the Event / Action plan attached in **Appendix J**.

5 MARINE ECOLOGY

- 5.1 According to Section 5.3.1.1 of EM&A Manual (AEIAR-174/2013), ET will be required to undertake audit of good site practice for habitat protection as detailed below. The summaries of site audits are attached in **Appendix I**.
 - Avoid damage and disturbance to the remaining and surrounding natural habitat;
 - Ensure placement of equipment is within designated areas within the existing disturbed land;
 - Ensure construction activities are restricted to within the proposed works boundary;
 - Ensure spoil heaps are be covered at all times;
 - Ensure that disturbed areas are reinstated immediately after completion of the works; and
 - Ensure enhancement planting works undertaken.

6 FISHERIES

6.1 According to Section 6.3.1.2 of EM&A Manual (AEIAR-174/2013), no specific fisheries monitoring and audit programme is required during the construction phase.

6.2 The implementation of the water quality mitigation measures stated in the Water Quality Impact Assessment (Refer to Section 6 of the EIA Report (AEIAR-174/2013)) will be audited as part of the EM&A procedures during the construction period and the details are presented in Section 4.2 of this Report. The summaries of site audits are attached in Appendix I.

7 LANDSCAPE AND VISUAL

7.1 According to the EM&A Manual (AEIAR-174/2013), a series of mitigation measures were recommended to ameliorate the landscape and visual impacts of the Project. The mitigation measures for construction stage are summarized in Table 7.1 below and provided in Appendix K:

ID No.	Landscape and Visual Mitigation Measure
CM1	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.
CM2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.
CM3	Not used.
CM4	Not used.
CM5	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.
CM6	Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance
CM7	Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.
CM8	All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.

 Table 7.1
 Construction Phase Landscape and Visual Mitigation Measures

7.2 A specialist Landscape Sub-Contractor should be employed by the Contractor for the implementation of landscape construction works and subsequent maintenance operations during the establishment period. It is proposed that the planting works will be on-site and the planting should be completed during the construction contract. The monitoring of the planting establishment should be undertaken for a 12 month period which could extend throughout the Contractor's one-year maintenance period, which will be within the first operational year of the Project.

- 7.3 All measures undertaken by both the Contractor and the specialist Landscape Sub-Contractor during the construction phase and first year of the operational phase shall be audited by a Registered Landscape Architect (RLA), as a member of the Environmental Team (ET), on a regular basis to ensure compliance with the intended aims of the measures. To fulfil the aforementioned requirements, on-site landscape and visual mitigation measures were audited by RLA in the reporting month.
- 7.4 According to Section 7.3.1.2 of the EM&A Manual (AEIAR-174/2013), site audits shall be undertaken at least once every two weeks throughout the construction period to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project.
- 7.5 The broad scope of the audit is detailed below but should also be undertaken with reference to the more specific checklist provided in **Table 7.2**. The summaries of site audits are attached in **Appendix I**:
 - The extent of the agreed works areas should be regularly checked during the construction phase. Any trespass by the Contractor outside the limit of the works, including any damage to existing trees and soft landscape areas shall be prohibited;
 - the progress of the engineering works should be regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken;
 - all existing trees and vegetation within the study area which are not directly affected by the works are retained and protected;
 - the methods of protecting existing vegetation proposed by the Contractor are acceptable and enforced;
 - preparation, lifting transport and re-planting operations for any transplanted trees;
 - all landscaping works are carried out in accordance with the specifications;
 - the planting of new trees, shrubs, groundcover, climbers, ferns, grasses and other plans, together with the replanting of any transplanted trees are carried out properly and within the right season; and
 - all necessary horticultural operations and replacement planting are undertaken throughout the Establishment Period to ensure the healthy establishment and growth of both transplanted trees and all newly established plants.

Table 7.2Construction Phase Audit Checklist for Landscape and Visual Mitigation
Measures

Area of Works	Items to be Monitored
Advance planting	Monitoring of implementation and maintenance of planting, and against possible incursion, physical damage, fire, pollution, surface

Area of Works	Items to be Monitored
	erosion, etc.
Protection of all trees and existing soft landscape areas to be retained	Identification and demarcation of trees / vegetation to be retained, erection of physical protection (e.g. fencing), monitoring against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Clearance of existing vegetation	Identification and demarcation of trees / vegetation to be cleared, checking of extent of works to minimise damage, monitoring of adjacent areas against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Pruning of trees	Identification and demarcation of trees / vegetation to be pruned, monitoring of extent of pruning to minimise damage, timing of operations, implementation of all stages of preparatory and pruning works, and maintenance of pruned vegetation, etc.
Plant supply	Monitoring of operations relating to the supply of specialist plant material (including the collecting, germination and growth of plants from seed) to ensure that plants will be available in time to be used within the construction works.
Soiling, planting, etc.	Monitoring of implementation and maintenance of soiling and planting works and against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Site fencing and hoarding	Implementation and maintenance, to ensure compliance with agreed designs and check that it matches the surrounding environment and does not cause visual intrusion.
Architectural treatment of engineering works.	Implementation and maintenance of mitigation measures, to ensure compliance with agreed designs as applicable.
Establishment Works	Monitoring of implementation of maintenance operations during Establishment Period.

- 7.6 In the event of non-compliance the responsibilities of the relevant parties is detailed in the Event / Action plan attached in **Appendix J**.
- 7.7 In the reporting month, no non-compliance of the landscape and visual mitigation measures was recorded by RLA.

8 CULTURAL HERITAGE

- 8.1 According to Section 8.3.1.1 of EM&A Manual (AEIAR-174/2013), as a precautionary measure, it is recommended that if any antiquity or supposed antiquity is discovered during the course of the excavation works undertaken by the Contractor, the discovery shall be reported to the AMO immediately and all necessary measures taken to preserve it.
- 8.2 According to Section 8.3.1.2 of EM&A Manual (AEIAR-174/2013), no EM&A is required during the construction and operational phase.

9 WASTE MANAGEMENT

- 9.1 According to Section 9.3.1.1 of EM&A Manual (AEIAR-174/2013), the effective management of waste arisings during the construction phase will be monitored through the site audit programme. Regular audits and site inspections should be carried out by the Engineer, ET and Contractor to ensure that the recommended good site practices and other mitigation measures are implemented by the Contractor. The summaries of site audits are attached in **Appendix I**.
- 9.2 According to Sections 9.3.1.3 and 9.3.1.4 of EM&A Manual (AEIAR-174/2013), documents including licenses, permits, disposal and recycling records should be reviewed and audited during site audits for the compliance with the legislation and contract requirements to ensure proper records are being maintained and procedures undertaken in accordance with the Waste Management Plan.
- 9.3 With reference to the relevant handing records of this Project, the quantities of different types of waste generated in the reporting month are summarized and presented in the **Appendix O**.

10 ENVIRONMENTAL AUDIT

Site Audits

- 10.1 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**.
- 10.2 Site audits for the each contract were conducted as follows.
 - ED/2018/04 Site audit were conducted on 07, 14, 21 & 28 March 2024 in the reporting month. Site inspection of the IEC was conducted on 14 March 2024. No non-compliance was observed during the site audit.
 - ED/2020/03 Site audit was conducted on 15,21 & 28 March 2024 in the reporting month. Site inspection of the IEC was conducted on 15 March 2024. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

- 10.3 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 K**.
- 10.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 10.1**. Refer to **Appendix I** for the site inspection summary reports in the reporting month.

Parameters	Date	Observations and Recommendations	Follow-up
	29 Feb 2024	Cement bags should be covered when not in used.	The cement bags had been removed.
Air Quality	28 Mar 2024	More than 20 cement bags should be covered.	To be reported in the next reporting month.
	28 Mar 2024	The NRMM label should be provided to the PMEs.	To be reported in the next reporting month.
Noise	N/A	There was no observation in the reporting period.	N/A
Water Quality	N/A	There was no observation in the reporting period.	N/A

 Table 10.1
 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Ecology	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Waste/ Chemical Management	29 Feb 2024	Accumulation of rubbish was observed at tunnel entrance.	The rubbish had been removed.
	29 Feb 2024	Drip tray should be provided for chemical containers and accumulation of containers were observed.	The chemical containers were removed.
	14 Mar 2024	Drip tray should be provided for chemical / oil containers to prevent leakage at OHVD.	Contractor has removed the related containers from OHVD.
	21 Mar 2024	Drip tray should be provided for chemical / oil containers to prevent leakage.	Contractor has removed the containers
	28 Mar 2024	Used cement bags should be removed	To be reported in the next reporting month.
	28 Mar 2024	Oil drum should be removed.	To be reported in the next reporting month.
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

Implementation Status of Event and Action Plans

10.5 The Event and Action Plans for air quality, construction noise, and landscape and visual are presented in **Appendix J**.

Air Quality Monitoring

• One (1) Action and no Limit Level exceedance for 24-hour TSP monitoring was recorded.

Construction Noise Monitoring

• No Action and Limit Level exceedance was recorded in the reporting month.

Landscape and Visual

• No landscape and visual non-conformity was recorded.

Status of Required Submission under Environmental Permit

10.6 According the Section 11.3.2.1 (c) of the EM&A Manual (AEIAR-174/2013), status of required submission under EP-451/2013 during the reporting period are summarized in **Table 10.2**.

EP Condition	Submission	Submission Date
EP-451/2013		
Condition 2.3	Management Organization of Main Construction Companies	20 January 2020
Condition 2.4	Design Drawing of the Project	20 January 2020
Condition 2.5	Landscape Mitigation Plan (Rev. F)	25 November 2022
Condition 2.10 (a)	Supplementary Contamination Assessment Plan	18 December 2015
Condition 2.10 (b)	Supplementary Contamination Assessment Report	6 December 2016
Condition 3.3	Updated Baseline Monitoring Report	3 November 2020
Condition 3.4	Monthly EM&A Report (February 2024)	11 March 2024

 Table 10.2
 Status of Required Submission under Environmental Permit

11 ENVIRONMENTAL NON-CONFORMANCE

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

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

Summary of Exceedance

- 11.2 The summary of exceedance record in the reporting month is shown in Appendix M.
- 11.3 No non-conformity was recorded for landscape and visual inspections conducted in the reporting month.

12 FUTURE KEY ISSUES

Tentative construction programmes for the next three months are provided in Appendix N.

12.1 Major site activities undertaken for the coming months and the key environmental issues are summarized as follows:

Table 12.1Summary Table for Site Activities and the Key Environmental Issues in the
next Reporting Period

Contract No. and Project Title	Site Activities (April 2024)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	 West Ventilation Building RC Structure, ABWF, E&M Launching Shaft / Cut & Cover RC Structure Westbound TBM Tunnelling Eastbound TBM Tunnelling EB Service Gallery Installation WB Service Gallery Installation WB Service Gallery Installation CP Tympanum Construction Cross Passage Finishing Sub-sea Corbel Construction Sub-sea Road Level Fire Board Sub-sea Parapet Installation Sub-sea Parapet Installation SUS Fire Board installation SUS Fire Board installation Tunnel Segment delivery Sub-sea OHVD Slab Installation MiMEP Module Installation 	 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 (April 2024)	Key Environmental Issues
	 19. Sub-sea E&M Bracket installation 20. Sub-sea E&M installation 21. Sub-sea E&M Bracket drilling 22. SUS Bracket instllation 23. Eastbound cavern excavation 24. SUS Skin Wall 25. SUS Bracket installation 	
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	 Site survey Installation of cable containment a 	t Gantry

Notes:

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

N/A: Not applicable

Monitoring Schedule

12.2 The tentative environmental monitoring schedule for the next three months are shown in **Appendix B**.

13 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

13.1 This is the 49th Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-174/2013) and the requirement under EP.

Air Quality Monitoring

13.2 One (1) Action and no Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

- 13.3 No Limit Level exceedance was recorded for day-time construction noise monitoring in the reporting month.
- 13.4 No Action Level exceedance was recorded in the reporting month.

Site Audit

- 13.5 4 (Four) ET joint weekly environmental site inspections were conducted for the Contact No. ED/2018/04 in the reporting month.
- 13.6 3 (Three) ET joint environmental site inspections were conducted for the Contact No. ED/2020/03 in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

13.7 No environmental complaint was received in the reporting month. No notifications of summons and successful prosecutions were received in the reporting month.

Recommendations

13.8 According to the environmental audit performed in the reporting month, the following recommendations was made:

ED/2018/04

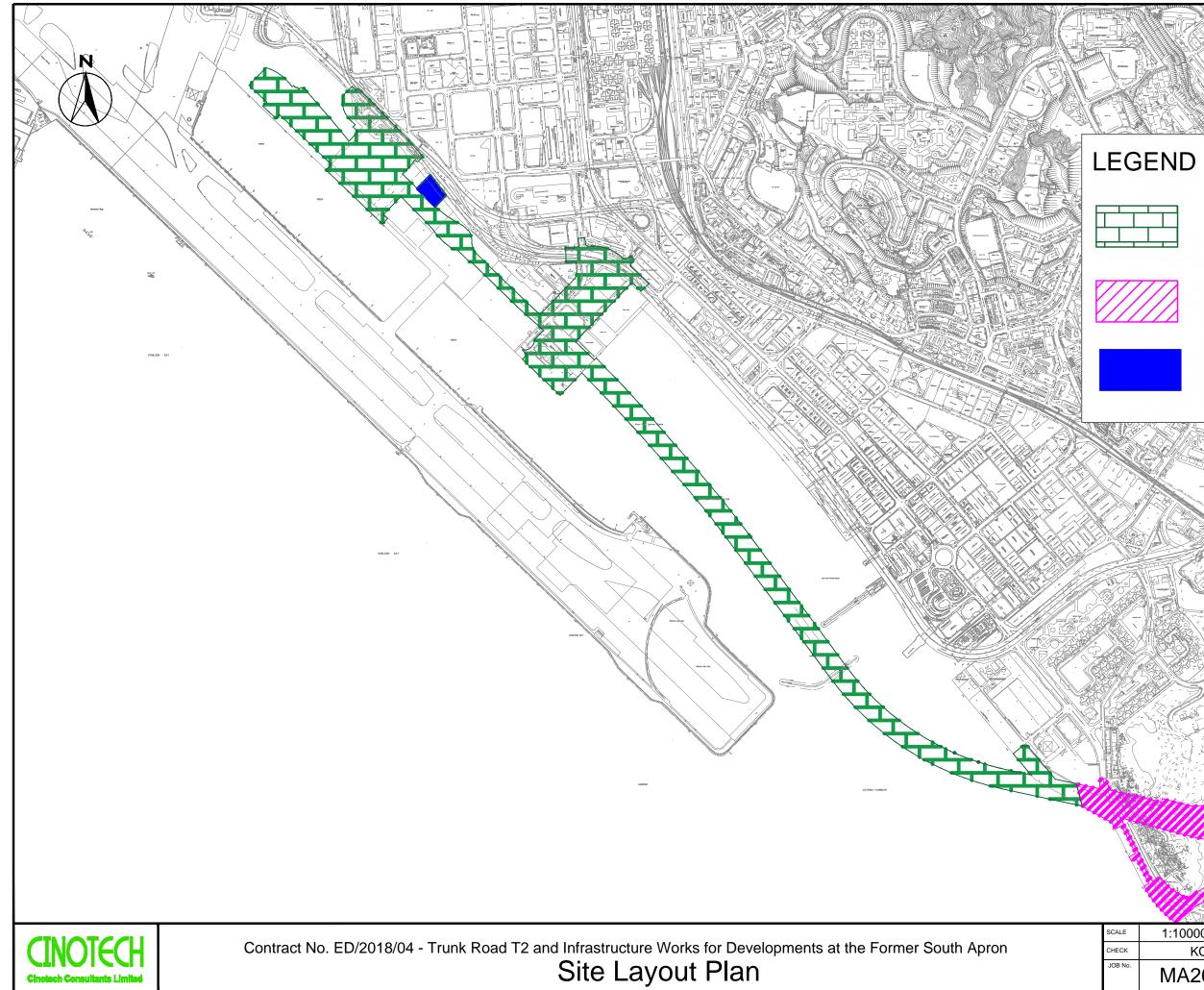
Air Quality

- The cement bags should be covered when not in used.
- More than 20 cement bags should be covered.
- The valid NRMM label should be provided to the PMEs.

Waste / Chemical Management

- The drip tray should be provided for the chemical container / oil drums to avoid the chemical leakage and remove the used chemical containers / oil drums regularly.
- The waste in the skips should be cleared regularly, the site and surrounding should be kept tidy and litter free
- The used construction material should be removed regularly.

FIGURES



Cinotech Consul

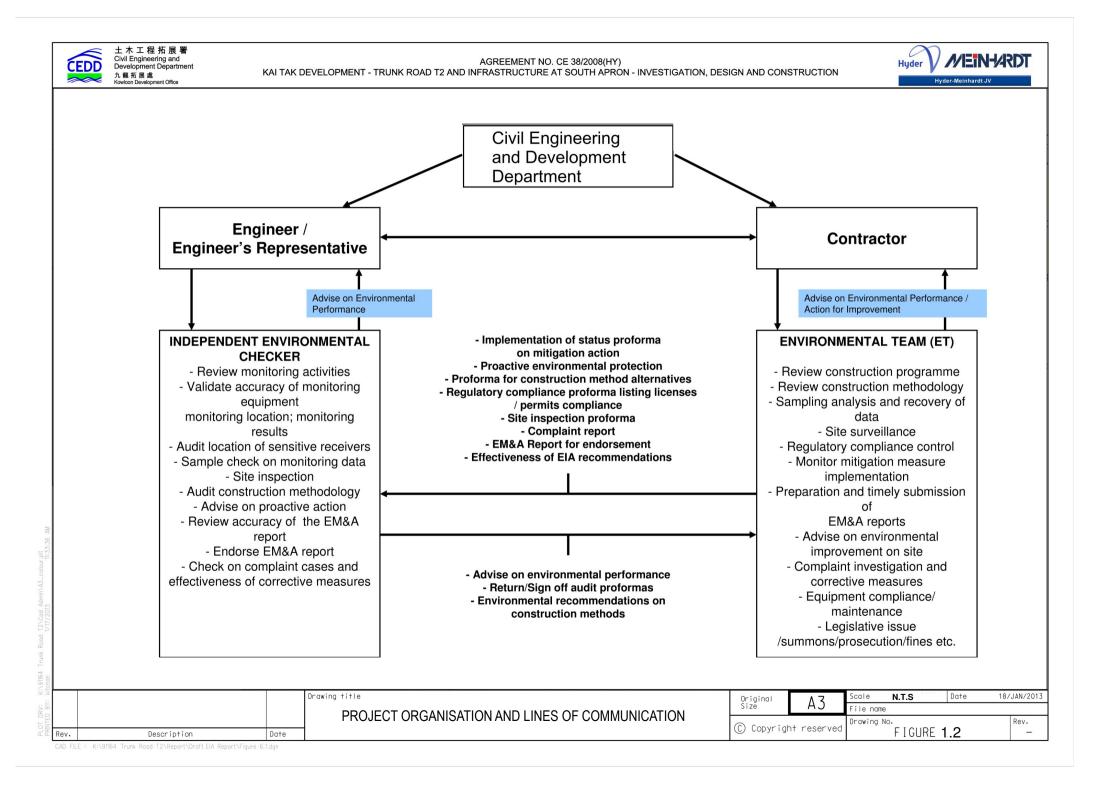
te I In

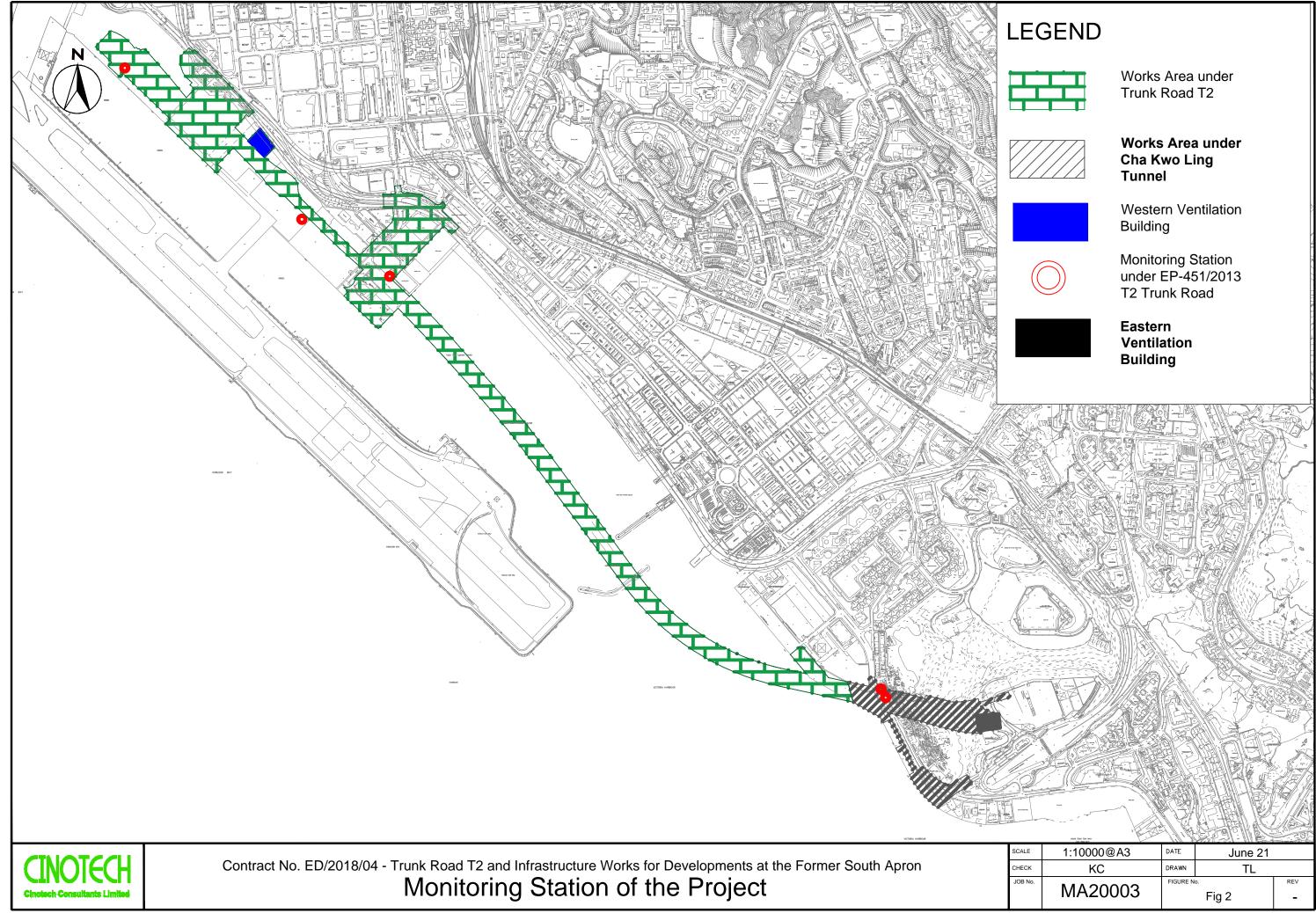
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

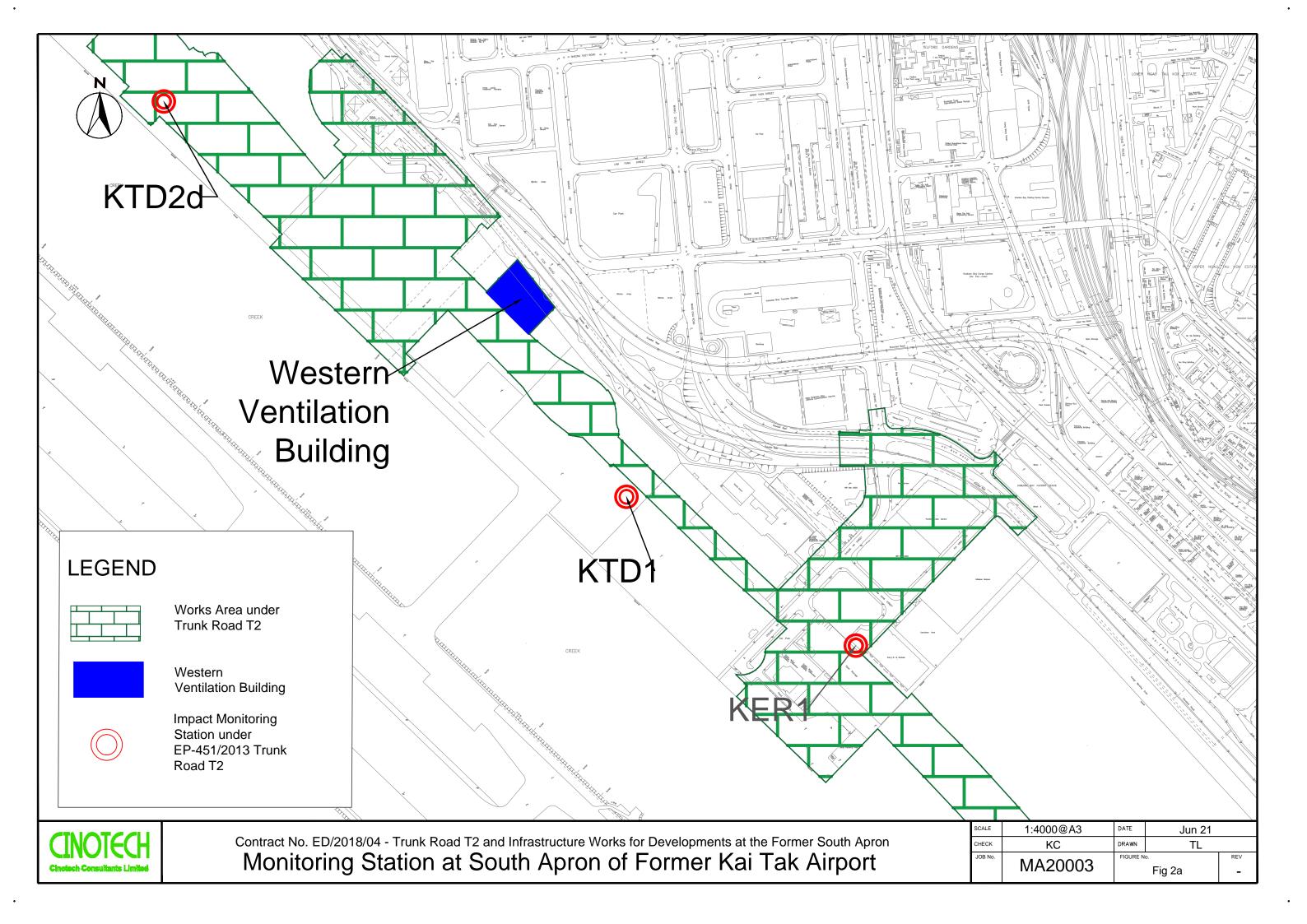
Ventilation Building

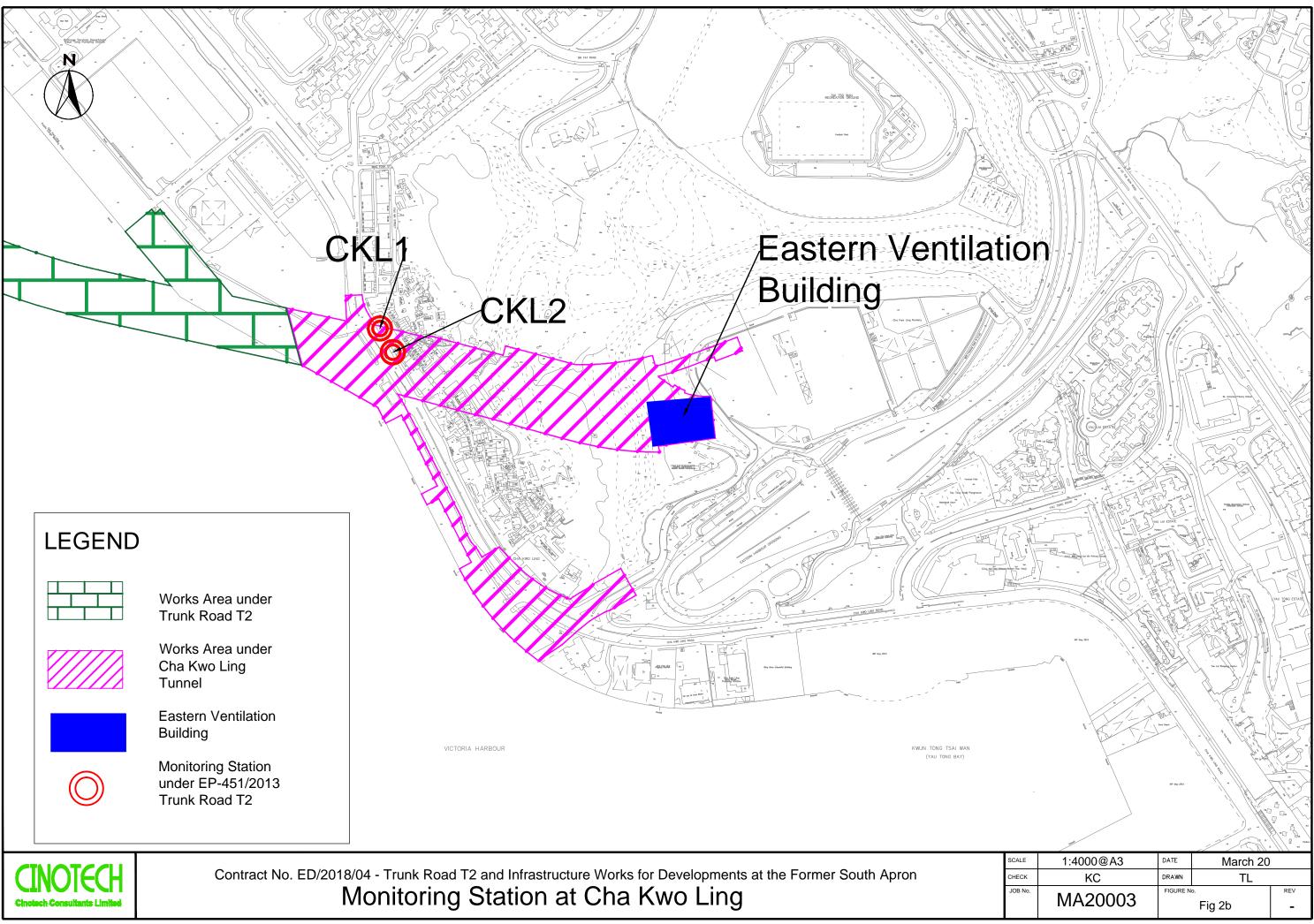
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APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

Location	Action Level, μg/m ³	Limit Level, µg/m ³
KTD1	285	
KTD2d	279	
KER1	295	500
CKL1	323	
CKL2	327	

 Table A-1
 Action and Limit Levels for 1-hour TSP (in case of complaints)

Table A-2Action and Limit Levels for 24-hour TSP

Location	Action Level, µg/m ³	Limit Level, µg/m ³
KTD1	177	
KTD2d	157	
KER1	172	260
CKL1	191	
CKL2	183	

Table A-3 Action and Limit Levels for Noise during Construction Period

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

Note:

(1) If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

APPENDIX B 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 (March 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Mar	2-Mar
					24-hrs TSP	
3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mai
	Noise			24-hrs TSP		
	110150			21110101		
10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar
			24-hrs TSP	Noise		
17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar
		24-hrs TSP	Noise			
24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar
	24-hrs TSP	Noise	24-hrs TSP			
31-Mar						

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.) *Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2) **24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Noise Monitoring Station

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KER1 - Future Residential Development at Kerry Godown KTD24 - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

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 (Apirl 2024)

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

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KER1 - Future Residential Development at Kerry Godown KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.) *Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2) **24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

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 (May 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-May	2-May	3-May	4-May
					24-hr TSP	
5-May	6-May	7-May	8-May	9-May	10-May	11-May
3-1/1ay	0-May	7-1 v 1ay	8-May	9-141ay	10-Way	11-iviay
	Noise			24-hr TSP		
12-May	13-May	14-May	15-May	16-May	17-May	18-May
		24-hr TSP		Noise		
19-May	20-May	21-May	22-May	23-May	24-May	25-May
	24-hr TSP	Noise				24-hr TSP
26-May	27-May	28-May	29-May	30-May	31-May	
	Noise			24-hr TSP		

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

- KTD2d Next to the SOR Office of Trunk Road T2 in Kai Tak Area
- KER1 Future Residential Development at Kerry Godown
- CKL1 Flat 121 Cha Kwo Ling Village
- CKL2 Flat 103 Cha Kwo Ling Village

KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

KER1 - Future Residential Development at Kerry Godown

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

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 (June 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
· ·	ž	·	, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,	ž	1-Jun
2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun
2-Juli	5-Juli	4-Juli	J-Juli	0-Juli	/-Juli	o-Juli
			24-hr TSP	Noise		
9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun
		24-hr TSP	Noise			
		24-nr 15P	Noise			
16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun
	24-hr TSP	Noise				24-hr TSP
23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun
43-Juli	24-Juli	23-Juli	20-Juli	∠/-Juli	20-Juli	29-Juli
	Noise				24-hr TSP	
30-Jun						

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.) *Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2) **24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Noise Monitoring Station

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KER1 - Future Residential Development at Kerry Godown KTD24 - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

APPENDIX C COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING



File No. MA20003/18/024

Project No.	CKL 1 - Flat 12	21 Cha Kwo Lin	g Village				
Date:	4-J	an-24	Next Due Date:	4-Mar-24	Operator:	SK	
Equipment No.:	A-0	01-18	Model No.:	TE 5170	Serial No.	0723	
			Ambient Condi	ition			
Temperatu	ire, Ta (K)	290	Pressure, Pa (mml	Hg)	765.7		

Orifice Transfer Standard Information							
Serial No.	3864	Slope, mc	0.05928	Intercept, bc	-0.03491		
Last Calibration Date:	16-Jan-23		mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	16-Jan-24	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc					

		Calibration o	f TSP Sampler		
Calibration		Orfice	*		HVS
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2} $ Y- axis
1	13.6	3.75	63.89	9.6	3.15
2	10.2	3.25	55.41	7.6	2.81
3	8.5	2.97	50.63	5.6	2.41
4	6.3	2.55	43.67	3.6	1.93
5	3.4	1.88	32.24	2.0	1.44
Slope , mw = Correlation	coefficient* =	0.9930	Intercept, bw = _	-0.431	13
*If Correlation C	Coefficient < 0.99	0, check and recalibrate.	Calculation		
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM			
		e "Y" value according to			
	-	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$ w x Qstd + bw) ² x (760 / Pa) x (
Remarks:					
Conducted by:	Wong Shi	ng Kwai Signature	k k	<u></u> .	Date: 4-Jan-24
Checked by:	Henry	Leung Signature	-lem	y Xozy	Date: 4-Jan-24

.



File No. MA20003/55/024

Project No.	CKL 2 - Flat 103	3 Cha Kwo Lii	ng Village			
Date:	4-Jai	n-24	Next Due Date:	4-Mar-24	Operator:	SK
Equipment No.:	A-0.	1-55	Model No.:	TE 5170	Serial No.	1956
			Ambient Condit	ion		
Temperatu	re, Ta (K)	290	Pressure, Pa (mml	Hg)	765.7	

Orifice Transfer Standard Information							
Serial No. 3864 Slope, mc 0.05928 Intercept, bc -0.03491							
Last Calibration Date:	16-Jan-23	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
Next Calibration Date:	Next Calibration Date: 16-Jan-24 $Qstd = \{ [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2} - bc \} / mc$						

Calibration of TSP Sampler							
Calibration		Orfice			HVS		
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis		
1	13.6	3.75	63.89	9.9	3.20		
2	11.3	3.42	58.29	7.9	2.86		
3	9.4	3.12	53.21	6.2	2.53		
4	5.6	2.41	41.21	3.0	1.76		
5	3.5	1.90	32.70	2.0	1.44		
By Linear Regression of Y on X Slope , mw =0.0580 Intercept, bw :0.5302 Correlation coefficient* =0.9963 *If Correlation Coefficient < 0.990, check and recalibrate.							
		Set Point C urve, take Qstd = 43 CFM e "Y" value according to	alculation				
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ $\mathbf{w} \mathbf{x} \mathbf{Qstd} + \mathbf{bw})^{2} \mathbf{x} (760 / Pa) $					
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	X	<u>h</u> .	Date: 4-Jan-24		
Checked by:	Henry I	Leung Signature:	lem	1 X27-	Date: 4-Jan-24		

CIN@TECH &

File No. MA20003/04/0022

Project No.	KER 1 - Future	vn					
Date:	10-	Jan-24	Next Due Date:	10-Mar-24	Operator:	SK	
Equipment No.:	A-I	01-04	Model No.:	TE 5170	Serial No.	10595	
			Ambient Condit	ion			
Temperatu	ıre, Ta (K)	293.3	Pressure, Pa (mmI	Hg)	764		

Orifice Transfer Standard Information							
Serial No. 3864 Slope, mc 0.05928 Intercept, bc -0.03491							
Last Calibration Date:	16-Jan-23	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
Next Calibration Date: 16-Jan-24 $Qstd = \{ [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2} - bc \} / mc$							

Calibration of TSP Sampler								
Calibration		Orfice			HVS			
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis			
1	13.1	3.66	62.29	9.3	3.08			
2	10.4	3.26	55.57	7.2	2.71			
3	8.4	2.93	50.00	5.6	2.39			
4	5.3	2.33	39.84	3.5	1.89			
5	3.5	1.89	32.48	2.1	1.46			
Slope , mw = Correlation	By Linear Regression of Y on X Slope , mw =0.0537Intercept, bw :0.2724 Correlation coefficient* =Intercept description for the state of the state o							
From the TSP Fi	eld Calibration Cu	Set Point (urve, take Qstd = 43 CFM	Calculation					
		e "Y" value according to						
	-	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$ v x Qstd + bw) ² x (760 / Pa) x (
Remarks:								
Conducted by:	Wong Shi	ng Kwai Signature	<u> </u>	火.	Date: 10-Jan-24			
Checked by:	Henry I	Leung Signature	: \-len	, Xoy	Date: 10-Jan-24			



File No. MA20003/44/0021

Project No.	KTD1 - Centre	e of Excellence in	Iospital)				
Date:	10	Jan-24	Next Due Date:	10-Mar-24	Operator:	SK	
Equipment No.:	A-	01-44	Model No.:	TE-5170	Serial No.	1316	
			Ambient Condit	tion			
Temperatu	ıre, Ta (K)	293.3	Pressure, Pa (mm	Hg)	764		

Orifice Transfer Standard Information							
Serial No. 3864 Slope, mc 0.05928 Intercept, bc -0.03491							
Last Calibration Date:	16-Jan-23	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
Next Calibration Date: 16-Jan-24 $Qstd = \{ [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2} - bc \} / mc$							

	Calibration of TSP Sampler							
Calibration	Orfice HVS							
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis			
1	13.3	3.69	62.76	9.5	3.11			
2	11.0	3.35	57.13	7.3	2.73			
3	8.8	3.00	51.16	5.5	2.37			
4	6.2	2.52	43.04	3.7	1.94			
5	3.7	1.94	33.38	2.3	1.53			
Slope, mw =	By Linear Regression of Y on X Slope , mw = <u>0.0536</u> Correlation coefficient* = 0.9956							
*If Correlation C	coefficient < 0.990), check and recalibrate.						
		Set Point	Calculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM	Curculation					
		e "Y" value according to						
		mw x Qstd + bw = $[\Delta W]$	x (Pa/760) x (29	98/Ta)] ^{1/2}				
Therefore, Se	et Point; W = (mv	x = x + 2x	(Ta / 298) =	3.88				
Remarks:								
Conducted by:	Wong Shi	ng Kwai Signatur	e:	火.	Date: 10-Jan-24			
Checked by:	Henry I	Leung Signatur	e: \-lem	- May	Date: 10-Jan-24			

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File No. MA20003/41/0022

Project No.	oject No. KTD 2D - Next to the SOR Office of Trunk Road T2 in Kai Tak Area						
Date:	10-	Jan-24	Next Due Date:	10-Mar-24	Operator:	SK	
Equipment No.:	nt No.: A-01-41		Model No.:	Model No.: TE 5170		5280	
-							
			Ambient Condit	ion			
Temperatu	Temperature, Ta (K)299.9Pressure, Pa (mmHg)762.1						
Orifice Transfer Standard Information							

Ornice Transfer Standard Information							
Serial No.	3864	Slope, mc 0.05928 Intercept, bc -0.03491					
Last Calibration Date:	16-Jan-23	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
Next Calibration Date:	16-Jan-24	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc					

Calibration of TSP Sampler							
Calibration		Orfice			HVS		
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis		
1	13.8	3.71	63.14	9.4	3.06		
2	11.3	3.36	57.19	8.4	2.89		
3	9.3	3.04	51.94	6.2	2.49		
4	6.9	2.62	44.82	4.1	2.02		
5	3.9	1.97	33.84	2.2	1.48		
By Linear Regression of Y on X Slope , mw =0.0566 Intercept, bw :0.4543 Correlation coefficient* =0.9941 *If Correlation Coefficient < 0.990, check and recalibrate.							
From the Regres	Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) =						
Remarks:							
	Wong Shi Henry I	ng Kwai Signature		N- y Noz	Date: 10-Jan-24 Date: 10-Jan-24		
cheeked by.	Henry I	Journe Dignature	len	7000-	Duto. 10-Juli-27		



File No. MA20003/18/025

Project No.	CKL 1 - Flat 1	21 Cha Kwo Lin				
Date:	4-N	1ar-24	Next Due Date:	4-May-24	Operator:	SK
Equipment No.:	A-	01-18	Model No.:	TE 5170	Serial No.	0723
			Ambient Condi	tion		
Temperatu	re, Ta (K)	292.7	Pressure, Pa (mmI	Hg)	759.3	

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

		Calibration of	TSP Sampler						
Calibration		Orfice			HVS				
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2} $ Y- axis				
1	13.7	3.73	63.31	9.4	3.09				
2	10.3	3.24	55.00	7.3	2.72				
3	8.6	2.96	50.33	5.5	2.37				
4	6.3	2.53	43.20	3.6	1.91				
5	3.7	1.94	33.30	2.0	1.43				
Slope, mw =	By Linear Regression of Y on X Slope , mw =0.0573 Intercept, bw :0.5035								
Correlation	coefficient* =	0.9968	_						
*If Correlation C	Coefficient < 0.990), check and recalibrate.							
		Set Point (Calculation						
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM							
From the Regres	sion Equation, the	e "Y" value according to							
		mw x Qstd + bw = $[\Delta W]$							
Therefore, Se	et Point; W = (mv	$(x + y + y)^{2} x (760 / Pa) x ($	Ta / 298) =	3.77	·				
Remarks:									
	h								
Conducted by:	Wong Shi	ng Kwai Signature:		火-	Date: 4-Mar-24				
Checked by:	Henry I	Leung Signature:	-lem	j Xoz j	Date: 4-Mar-24				



File No. MA20003/55/025

Project No.	CKL 2 - Flat 10					
Date:	4-M	lar-24	Next Due Date:	4-May-24	Operator:	SK
Equipment No.:	uipment No.: <u>A-0</u>		Model No.:	TE 5170	Serial No.	1956
			Ambient Conditi	on		
Temperatu	ire, Ta (K)	292.7	Pressure, Pa (mmH	Ig)	759.3	

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

Calibration of TSP Sampler							
Calibration		Orfice			HVS		
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis		
1	13.7	3.73	63.31	9.8	3.16		
2	11.4	3.41	57.82	7.8	2.82		
3	9.5	3.11	52.86	6.1	2.49		
4	5.7	2.41	41.13	3.1	1.78		
5	3.6	1.91	32.86	2.0	1.43		
By Linear Regression of Y on X Slope , mw =0.0577 Intercept, bw :0.5305 Correlation coefficient* =0.9975 *If Correlation Coefficient < 0.990, check and recalibrate.							
		Set Point C urve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW 3		98/Ta)1 ^{1/2}			
Therefore, Se	et Point; W = (mv	$x = (14)^{2} x (760 / Pa) x ($					
Remarks:	Remarks:						
Conducted by:	Wong Shi		X	Ŋ.	Date: 4-Mar-24		
Checked by:	Henry I	Leung Signature:	- lem	1 X27	Date: 4-Mar-24		

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File No. MA20003/04/0023

Project No.	KER 1 - Future						
Date:	10-1	Mar-24	Next Due Date:	10-May-24	Operator:	SK	_
Equipment No.:	A-(01-04	Model No.:	TE 5170	Serial No.	10595	
			Ambient Condit	tion			
Temperatu	ure, Ta (K)	289	Pressure, Pa (mml	Hg)	765.8		

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

Calibration of TSP Sampler								
Calibration		Orfice			HVS			
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis			
1	13.4	3.73	63.28	9.2	3.09			
2	10.7	3.33	56.63	7.3	2.75			
3	8.6	2.99	50.86	5.5	2.39			
4	5.5	2.39	40.84	3.6	1.93			
5	3.7	1.96	33.65	2.3	1.55			
Slope , mw =								
	coefficient* =	0.9991	_					
*If Correlation C	Coefficient < 0.990), check and recalibrate.						
		Set Point	Calculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	"Y" value according to						
Therefore Se	et Point: W = (my	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]^{2} \mathbf{x} (760 / Pa) \mathbf{x}$		98/Ta)] ^{1/2} 3.96				
	(11)		(14/2/0)					
Remarks:	Remarks:							
Conducted by:	Wong Shi	ng Kwai Signatur		火.	Date: 10-Mar-24			
Checked by:	Henry I	Leung Signatur	e: l-len	- May	Date: 10-Mar-24			



File No. MA20003/44/0022

Project No.	KTD1 - Centre						
Date:	10-N	Mar-24	Next Due Date:	10-May-24	Operator:	SK	
Equipment No.:	A-(01-44	Model No.:	TE-5170	Serial No.	1316	
							_
			Ambient Condit	ion			
Temperatu	ire. Ta (K)	289	Pressure, Pa (mmF	-Ig)	765.8		

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

	Calibration of TSP Sampler							
Calibration		Orfice			HVS			
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis			
1	13.6	3.76	63.74	9.7	3.17			
2	11.3	3.43	58.18	7.5	2.79			
3	9.0	3.06	52.01	5.7	2.43			
4	6.4	2.58	43.99	3.9	2.01			
5	3.9	2.01	34.52	2.3	1.55			
Slope , mw = Correlation	coefficient < 0.990		Intercept, bw = _	-0.394	15			
		Set Point C	alculation					
		urve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW x	x (Pa/760) x (29	98/Ta)] ^{1/2}				
Therefore, Se	et Point; W = (my	$(x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	3.77				
Remarks:								
Conducted by:	Wong Shi	ng Kwai Signature:	k	<u></u> у	Date: 10-Mar-24			

Signature:

-lem day

Date:

10-Mar-24

Checked by: <u>Henry Le</u>ung

15-Jan-24

14-Jan-25

Last Calibration Date:

Next Calibration Date:



File No. MA20003/41/0023

Project No.	t No. KTD 2D - Next to the SOR Office of Trunk Road T2 in Kai Tak Area								
Date:	10-N	Mar-24	Next Due Date:	10-1	May-24	Operator:	SK		
Equipment No.:	A-	01-41	Model No.:	TE	E 5170	Serial No.	5280		
			Ambient C	ondition	-				
Temperatu	ıre, Ta (K)	289	Pressure, Pa	(mmHg)		765.8			
		Or	ifice Transfer Star	ndard Informa	ation				
Seria	l No.	3864	Slope, mc	0.05976	Interc	ept, bc	-0.05018		

mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$

Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	14.0	3.81	64.66	9.6	3.16
2	11.5	3.46	58.68	8.6	2.99
3	9.5	3.14	53.41	6.4	2.58
4	7.0	2.70	45.97	4.5	2.16
5	4.0	2.04	34.95	2.2	1.51
Slope , mw =	0.0573 coefficient* =	0.9955	Intercept, bw	-0.474	6
			F () (- ()		
), check and recalibrate.	_		
		Set Point C	Calculation		
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM			
		"Y" value according to			
6	1	mw x Qstd + bw = $[\Delta W]$	x (Pa/760) x (29	98/Ta)] ^{1/2}	
Therefore Se	at Point: W - (mr	$(x + y)^2 x (760 / Pa) x ($	T_{2} (208) –	3.81	
merenore, Se	x I OIIII, W = (IIIV	$x \operatorname{Qstu} + \operatorname{Uw} = x (70071a) x ($	1a / 298) -		
Remarks:					
			b	24	
Conducted by:	Wong Shi	ng Kwai Signature	:		Date: 10-Mar-24
	Wong Shi Henry I		: <u> </u>	N- 	Date: 10-Mar-24

15 viro	n m	ent	al	J			Di Janua	ALIBRATION UE DATE: ary 15, 2025
	Ge	rtifa	cate				ntion	
			Calibration	Certificatio	on Informat	ion		
Cal. Date: Ja	nuary 15,	2024	Rootsr	neter S/N:	438320	Ta:	294	°К
Operator: Ji	m Tisch					Pa:	755.4	mm Hg
Calibration Mo	ndel #•	TE-5025A	Calib	orator S/N:	3864			0
	Juci III	12 30234	Cuin		0004			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔH	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(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	
			D	Data Tabula	tion			
	Vetd	Octd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$			0-	$\sqrt{\Delta H(Ta/Pa)}$	
	Vstd	Qstd					/	
	(m3) 1.0031	(x-axis) 0.6975	(y-axi 1.419		Va 0.9956	(x-axis) 0.6924	(y-axis) 0.8823	
-	0.9989	0.9727	2.007		0.9915	0.9655	1.2477	
- F	0.9968	1.0858	2.244		0.9894	1.0778	1.3950	
F	0.9956	1.1378	2.353		0.9882	1.1294	1.4631	
	0.9903	1.3697	2.839	90	0.9829	1.3595	1.7645	
		m=	2.111	.96		m=	1.32248	
	QSTD	b=	-0.050		QA	b=	-0.03134	
		r=	0.999	98		r=	0.99998	
				Calculatio	าร			
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta			ΔVol((Pa-ΔF	P)/Pa)	
		Vstd/∆Time				Va/∆Time		
			For subsequ	ent flow rat	te calculation	ns:		
	Qstd=	1/m ((__H(Pa <u>Tstd</u> Pstd Ta))-b)	Qa=	1/m ((√ΔH	(Ta/Pa))-b)	
		Conditions						
Tstd:	298.15			[RECAI	IBRATION	
Pstd:		mm Hg				mmondo		n non 1000
		ey er reading (i	n H2O)				nual recalibratio	· /
ΔH: calibrator ΔP: rootsmeter							egulations Part 5 Reference Meth	
Ta: actual abso							ended Particulate	1
							re, 9.2.17, page 3	
and the second se	rometric pressure (mm Hg)				UIR LIR	- Autospile	, c, J.z.r, page :	
b: intercept m: slope				L				

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

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009

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Certificate of Calibration - Wind Monitoring Station

Yau Lai Estate, Bik Lai House
Davis Instruments
<u>Davis7440</u>
<u>MC01010A44</u>
<u>SA-03-04</u>
<u>18-Feb-2024</u>
<u>18-Aug-2024</u>

1. Performance check of Wind Speed

Wind Sp	beed, m/s	Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.5	1.7	-0.2
2.5	2.4	0.1
4.0	3.8	0.2

2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
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

APPENDIX D WEATHER INFORMATION

Date	Mean Air Temperature $(^{\circ}C)^{1}$	Mean Relative Humidity	Precipitation (mm) ³
1.14	12.2	(%) ²	T
1-Mar-24	13.3	72	Trace
2-Mar-24	12.0	74	0.3
3-Mar-24	16.1	81	0.2
4-Mar-24	19.7	91	1.4
5-Mar-24	24.3	87	Trace
6-Mar-24	22.9	85	0.1
7-Mar-24	18.7	72	Trace
8-Mar-24	18.8	64	0.2
9-Mar-24	16.6	73	2.1
10-Mar-24	16.0	83	4.6
11-Mar-24	17.2	91	11.7
12-Mar-24	19.3	61	0.0
13-Mar-24	19.4	66	Trace
14-Mar-24	19.8	71	0.0
15-Mar-24	20.2	79	0.0
16-Mar-24	20.7	88	Trace
17-Mar-24	23.1	86	0.0
18-Mar-24	21.0	92	0.6
19-Mar-24	21.2	69	0.3
20-Mar-24	20.8	54	0.0
21-Mar-24	20.7	65	Trace
22-Mar-24	22.5	83	Trace
23-Mar-24	24.7	84	0.0
24-Mar-24	26.4	77	0.0
25-Mar-24	25.9	79	0.0
26-Mar-24	26.2	79	0.0
27-Mar-24	22.4	82	Trace
28-Mar-24	24.7	82	0.0
29-Mar-24	25.5	81	Trace
30-Mar-24	26.4	80	Trace
31-Mar-24	27.1	84	0.1

Appendix D - Weather Conditions During Impact Monitoring Period

(Reporting Month:March 2024)

Remarks:

Source - Hong Kong Observatory

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

	March 2024				
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
1 Mar 2024	12:00 AM	SSE	3.0		
1 Mar 2024	1:00 AM	S	2.7		
1 Mar 2024	2:00 AM	S	3.0		
1 Mar 2024	3:00 AM	SSE	3.1		
1 Mar 2024	4:00 AM	SSE	3.5		
1 Mar 2024	5:00 AM	SSE	2.8		
1 Mar 2024	6:00 AM	S	2.8		
1 Mar 2024	7:00 AM	SSW	2.6		
1 Mar 2024	8:00 AM	S	2.9		
1 Mar 2024	9:00 AM	S	2.7		
1 Mar 2024	10:00 AM	SE	2.5		
1 Mar 2024	11:00 AM	S	4.1		
1 Mar 2024	12:00 PM	S	3.1		
1 Mar 2024	1:00 PM	S	2.9		
1 Mar 2024	2:00 PM	SSE	2.7		
1 Mar 2024	3:00 PM	SSE	3.0		
1 Mar 2024	4:00 PM	S	3.2		
1 Mar 2024	5:00 PM	S	2.6		
1 Mar 2024	6:00 PM	SSE	2.9		
1 Mar 2024	7:00 PM	S	2.4		
1 Mar 2024	8:00 PM	S	2.3		
1 Mar 2024	9:00 PM	SSW	2.2		
1 Mar 2024	10:00 PM	SSW	1.7		
1 Mar 2024	11:00 PM	SSE	1.5		
2 Mar 2024	12:00 AM	S	2.2		
2 Mar 2024	1:00 AM	S	2.7		
2 Mar 2024	2:00 AM	S	2.0		
2 Mar 2024	3:00 AM	S	2.2		
2 Mar 2024	4:00 AM	S	2.2		

	March 2024				
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
2 Mar 2024	5:00 AM	SSE	2.1		
2 Mar 2024	6:00 AM	S	2.4		
2 Mar 2024	7:00 AM	SSW	2.3		
2 Mar 2024	8:00 AM	SSE	2.1		
2 Mar 2024	9:00 AM	S	2.3		
2 Mar 2024	10:00 AM	S	2.4		
2 Mar 2024	11:00 AM	SSW	2.0		
2 Mar 2024	12:00 PM	SSW	1.8		
2 Mar 2024	1:00 PM	S	2.5		
2 Mar 2024	2:00 PM	S	2.0		
2 Mar 2024	3:00 PM	SSE	1.9		
2 Mar 2024	4:00 PM	SSE	2.0		
2 Mar 2024	5:00 PM	S	1.6		
2 Mar 2024	6:00 PM	S	1.5		
2 Mar 2024	7:00 PM	S	1.5		
2 Mar 2024	8:00 PM	SSE	0.8		
2 Mar 2024	9:00 PM	S	1.0		
2 Mar 2024	10:00 PM	S	0.9		
2 Mar 2024	11:00 PM	S	0.7		
3 Mar 2024	12:00 AM	SSE	0.6		
3 Mar 2024	1:00 AM	S	0.8		
3 Mar 2024	2:00 AM	S	0.4		
3 Mar 2024	3:00 AM	S	0.8		
3 Mar 2024	4:00 AM	SW	0.4		
3 Mar 2024	5:00 AM	SSE	0.4		
3 Mar 2024	6:00 AM	S	1.0		
3 Mar 2024	7:00 AM	S	0.8		
3 Mar 2024	8:00 AM	SSW	1.5		
3 Mar 2024	9:00 AM	SSE	1.1		

	March 2024					
Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s			
3 Mar 2024	10:00 AM	SW	1.0			
3 Mar 2024	11:00 AM	SSW	0.5			
3 Mar 2024	12:00 PM	SW	1.0			
3 Mar 2024	1:00 PM	ESE	0.9			
3 Mar 2024	2:00 PM	SE	0.6			
3 Mar 2024	3:00 PM	S	0.7			
3 Mar 2024	4:00 PM	SSW	0.8			
3 Mar 2024	5:00 PM	ESE	0.4			
3 Mar 2024	6:00 PM	S	0.5			
3 Mar 2024	7:00 PM	W	1.9			
3 Mar 2024	8:00 PM	SSW	0.4			
3 Mar 2024	9:00 PM	SW	1.4			
3 Mar 2024	10:00 PM	S	0.7			
3 Mar 2024	11:00 PM	WSW	2.1			
4 Mar 2024	12:00 AM	SSW	1.1			
4 Mar 2024	1:00 AM	SSE	0.8			
4 Mar 2024	2:00 AM	S	1.4			
4 Mar 2024	3:00 AM	SSW	0.9			
4 Mar 2024	4:00 AM	S	1.2			
4 Mar 2024	5:00 AM	WSW	2.0			
4 Mar 2024	6:00 AM	WSW	2.6			
4 Mar 2024	7:00 AM	W	3.3			
4 Mar 2024	8:00 AM	WSW	2.1			
4 Mar 2024	9:00 AM	WSW	2.2			
4 Mar 2024	10:00 AM	WNW	2.2			
4 Mar 2024	11:00 AM	W	3.3			
4 Mar 2024	12:00 PM	W	1.6			
4 Mar 2024	1:00 PM	W	2.3			
4 Mar 2024	2:00 PM	SW	1.8			

	March 2024					
Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s			
4 Mar 2024	3:00 PM	SSE	1.5			
4 Mar 2024	4:00 PM	WNW	4.5			
4 Mar 2024	5:00 PM	WSW	2.5			
4 Mar 2024	6:00 PM	SE	0.9			
4 Mar 2024	7:00 PM	SE	0.3			
4 Mar 2024	8:00 PM	ESE	1.0			
4 Mar 2024	9:00 PM	Е	0.8			
4 Mar 2024	10:00 PM	ESE	0.7			
4 Mar 2024	11:00 PM	ESE	1.2			
5 Mar 2024	12:00 AM	ESE	0.7			
5 Mar 2024	1:00 AM	SE	0.1			
5 Mar 2024	2:00 AM	ESE	0.1			
5 Mar 2024	3:00 AM	SSE	0.3			
5 Mar 2024	4:00 AM	SE	0.4			
5 Mar 2024	5:00 AM	SE	0.8			
5 Mar 2024	6:00 AM	ESE	0.3			
5 Mar 2024	7:00 AM	SSE	1.0			
5 Mar 2024	8:00 AM	Е	1.1			
5 Mar 2024	9:00 AM	SE	1.2			
5 Mar 2024	10:00 AM	SE	1.5			
5 Mar 2024	11:00 AM	SE	1.2			
5 Mar 2024	12:00 PM	SSE	1.3			
5 Mar 2024	1:00 PM	SW	0.9			
5 Mar 2024	2:00 PM	SE	0.9			
5 Mar 2024	3:00 PM	SSW	0.8			
5 Mar 2024	4:00 PM	SSE	1.2			
5 Mar 2024	5:00 PM	ESE	1.1			
5 Mar 2024	6:00 PM	ESE	0.9			
5 Mar 2024	7:00 PM	ESE	0.9			

	March 2024				
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
5 Mar 2024	8:00 PM	ESE	0.7		
5 Mar 2024	9:00 PM	SE	0.5		
5 Mar 2024	10:00 PM	SSE	0.5		
5 Mar 2024	11:00 PM	S	0.2		
6 Mar 2024	12:00 AM	SSW	0.2		
6 Mar 2024	1:00 AM	S	0.5		
6 Mar 2024	2:00 AM	SSE	0.1		
6 Mar 2024	3:00 AM	SSW	0.0		
6 Mar 2024	4:00 AM	S	0.0		
6 Mar 2024	5:00 AM	S	0.2		
6 Mar 2024	6:00 AM	SSE	0.2		
6 Mar 2024	7:00 AM	S	0.6		
6 Mar 2024	8:00 AM	S	0.5		
6 Mar 2024	9:00 AM	SE	0.4		
6 Mar 2024	10:00 AM	SE	1.0		
6 Mar 2024	11:00 AM	SSE	0.8		
6 Mar 2024	12:00 PM	SSE	0.5		
6 Mar 2024	1:00 PM	SSW	0.8		
6 Mar 2024	2:00 PM	SW	0.5		
6 Mar 2024	3:00 PM	SE	0.6		
6 Mar 2024	4:00 PM	SSE	1.2		
6 Mar 2024	5:00 PM	SSE	1.4		
6 Mar 2024	6:00 PM	S	1.7		
6 Mar 2024	7:00 PM	S	2.0		
6 Mar 2024	8:00 PM	S	1.8		
6 Mar 2024	9:00 PM	SSW	1.6		
6 Mar 2024	10:00 PM	SSW	1.5		
6 Mar 2024	11:00 PM	S	1.9		
7 Mar 2024	12:00 AM	S	1.9		

	March 2024				
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
7 Mar 2024	1:00 AM	S	1.8		
7 Mar 2024	2:00 AM	SSW	1.8		
7 Mar 2024	3:00 AM	SSW	2.9		
7 Mar 2024	4:00 AM	SSW	1.7		
7 Mar 2024	5:00 AM	SSW	1.6		
7 Mar 2024	6:00 AM	SSW	2.0		
7 Mar 2024	7:00 AM	SSW	2.0		
7 Mar 2024	8:00 AM	S	1.8		
7 Mar 2024	9:00 AM	SSW	1.5		
7 Mar 2024	10:00 AM	SSW	1.8		
7 Mar 2024	11:00 AM	SSW	1.7		
7 Mar 2024	12:00 PM	SSW	1.8		
7 Mar 2024	1:00 PM	SSE	1.1		
7 Mar 2024	2:00 PM	S	1.7		
7 Mar 2024	3:00 PM	S	1.8		
7 Mar 2024	4:00 PM	SSW	1.4		
7 Mar 2024	5:00 PM	S	1.2		
7 Mar 2024	6:00 PM	S	1.6		
7 Mar 2024	7:00 PM	S	1.5		
7 Mar 2024	8:00 PM	SSW	2.0		
7 Mar 2024	9:00 PM	SSW	2.1		
7 Mar 2024	10:00 PM	S	1.8		
7 Mar 2024	11:00 PM	S	1.2		
8 Mar 2024	12:00 AM	SSW	1.5		
8 Mar 2024	1:00 AM	S	1.7		
8 Mar 2024	2:00 AM	SSW	1.8		
8 Mar 2024	3:00 AM	S	2.1		
8 Mar 2024	4:00 AM	S	2.6		
8 Mar 2024	5:00 AM	S	1.8		

March 2024						
Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s			
8 Mar 2024	6:00 AM	SSE	1.9			
8 Mar 2024	7:00 AM	S	1.9			
8 Mar 2024	8:00 AM	SSW	3.1			
8 Mar 2024	9:00 AM	SSW	2.7			
8 Mar 2024	10:00 AM	SSW	2.4			
8 Mar 2024	11:00 AM	SE	1.1			
8 Mar 2024	12:00 PM	SE	1.1			
8 Mar 2024	1:00 PM	SSE	1.1			
8 Mar 2024	2:00 PM	SE	1.0			
8 Mar 2024	3:00 PM	S	1.5			
8 Mar 2024	4:00 PM	SSE	1.1			
8 Mar 2024	5:00 PM	W	1.8			
8 Mar 2024	6:00 PM	WSW	1.7			
8 Mar 2024	7:00 PM	WNW	1.5			
8 Mar 2024	8:00 PM	W	1.7			
8 Mar 2024	9:00 PM	WSW	0.5			
8 Mar 2024	10:00 PM	W	1.0			
8 Mar 2024	11:00 PM	WSW	1.4			
9 Mar 2024	12:00 AM	SW	0.9			
9 Mar 2024	1:00 AM	SSW	0.6			
9 Mar 2024	2:00 AM	SE	0.9			
9 Mar 2024	3:00 AM	S	0.8			
9 Mar 2024	4:00 AM	SSW	0.9			
9 Mar 2024	5:00 AM	SW	0.8			
9 Mar 2024	6:00 AM	S	1.5			
9 Mar 2024	7:00 AM	SSW	1.3			
9 Mar 2024	8:00 AM	SSW	1.7			
9 Mar 2024	9:00 AM	SSW	1.7			
9 Mar 2024	10:00 AM	S	1.5			

March 2024 Wind Speed and Directions						
9 Mar 2024	11:00 AM	SSW	1.5			
9 Mar 2024	12:00 PM	SSW	1.3			
9 Mar 2024	1:00 PM	SSW	1.4			
9 Mar 2024	2:00 PM	S	1.4			
9 Mar 2024	3:00 PM	S	1.7			
9 Mar 2024	4:00 PM	SSW	1.5			
9 Mar 2024	5:00 PM	S	1.3			
9 Mar 2024	6:00 PM	SW	0.7			
9 Mar 2024	7:00 PM	SSW	0.6			
9 Mar 2024	8:00 PM	SSW	0.8			
9 Mar 2024	9:00 PM	SW	1.4			
9 Mar 2024	10:00 PM	SSW	1.1			
9 Mar 2024	11:00 PM	SSW	1.3			
10 Mar 2024	12:00 AM	SSW	1.6			
10 Mar 2024	1:00 AM	SSW	2.1			
10 Mar 2024	2:00 AM	S	1.7			
10 Mar 2024	3:00 AM	SSW	1.9			
10 Mar 2024	4:00 AM	S	1.6			
10 Mar 2024	5:00 AM	SSW	1.4			
10 Mar 2024	6:00 AM	S	1.0			
10 Mar 2024	7:00 AM	SW	1.1			
10 Mar 2024	8:00 AM	S	1.3			
10 Mar 2024	9:00 AM	SW	0.6			
10 Mar 2024	10:00 AM	SSW	1.2			
10 Mar 2024	11:00 AM	SSW	1.5			
10 Mar 2024	12:00 PM	SSW	1.6			
10 Mar 2024	1:00 PM	SSE	1.8			
10 Mar 2024	2:00 PM	SSE	0.8			
10 Mar 2024	3:00 PM	S	1.0			

March 2024 Wind Speed and Directions					
10 Mar 2024	4:00 PM	S	1.0		
10 Mar 2024	5:00 PM	S	0.8		
10 Mar 2024	6:00 PM	SSE	1.1		
10 Mar 2024	7:00 PM	S	0.7		
10 Mar 2024	8:00 PM	SSE	0.5		
10 Mar 2024	9:00 PM	S	0.4		
10 Mar 2024	10:00 PM	SSE	0.5		
10 Mar 2024	11:00 PM	SE	0.5		
11 Mar 2024	12:00 AM	S	0.4		
11 Mar 2024	1:00 AM	SSE	1.1		
11 Mar 2024	2:00 AM	SW	1.3		
11 Mar 2024	3:00 AM	S	1.1		
11 Mar 2024	4:00 AM	S	0.6		
11 Mar 2024	5:00 AM	S	1.3		
11 Mar 2024	6:00 AM	S	1.1		
11 Mar 2024	7:00 AM	S	1.1		
11 Mar 2024	8:00 AM	SSW	1.6		
11 Mar 2024	9:00 AM	S	2.4		
11 Mar 2024	10:00 AM	S	2.3		
11 Mar 2024	11:00 AM	S	1.5		
11 Mar 2024	12:00 PM	S	1.4		
11 Mar 2024	1:00 PM	SE	0.7		
11 Mar 2024	2:00 PM	SSW	1.0		
11 Mar 2024	3:00 PM	SSW	1.1		
11 Mar 2024	4:00 PM	S	1.2		
11 Mar 2024	5:00 PM	SE	1.8		
11 Mar 2024	6:00 PM	S	3.1		
11 Mar 2024	7:00 PM	S	2.3		
11 Mar 2024	8:00 PM	S	0.9		

March 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
11 Mar 2024	9:00 PM	SE	0.3
11 Mar 2024	10:00 PM	SW	1.0
11 Mar 2024	11:00 PM	SW	0.9
12 Mar 2024	12:00 AM	S	0.8
12 Mar 2024	1:00 AM	S	1.0
12 Mar 2024	2:00 AM	SSE	1.3
12 Mar 2024	3:00 AM	S	1.0
12 Mar 2024	4:00 AM	SSE	1.2
12 Mar 2024	5:00 AM	S	1.1
12 Mar 2024	6:00 AM	S	0.8
12 Mar 2024	7:00 AM	SSW	0.9
12 Mar 2024	8:00 AM	SSW	2.0
12 Mar 2024	9:00 AM	SSW	2.1
12 Mar 2024	10:00 AM	S	1.6
12 Mar 2024	11:00 AM	SSE	1.7
12 Mar 2024	12:00 PM	SSE	1.4
12 Mar 2024	1:00 PM	S	2.2
12 Mar 2024	2:00 PM	SW	2.0
12 Mar 2024	3:00 PM	S	1.4
12 Mar 2024	4:00 PM	SSW	1.4
12 Mar 2024	5:00 PM	WSW	1.5
12 Mar 2024	6:00 PM	NW	1.9
12 Mar 2024	7:00 PM	S	0.3
12 Mar 2024	8:00 PM	SSE	0.6
12 Mar 2024	9:00 PM	SE	0.4
12 Mar 2024	10:00 PM	S	0.1
12 Mar 2024	11:00 PM	Е	0.3
13 Mar 2024	12:00 AM	S	0.4
13 Mar 2024	1:00 AM	E	0.3

March 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
13 Mar 2024	2:00 AM	SSE	0.4
13 Mar 2024	3:00 AM	S	0.6
13 Mar 2024	4:00 AM	S	0.3
13 Mar 2024	5:00 AM	SSW	0.4
13 Mar 2024	6:00 AM	SSW	0.4
13 Mar 2024	7:00 AM	S	0.6
13 Mar 2024	8:00 AM	SSW	1.4
13 Mar 2024	9:00 AM	S	1.9
13 Mar 2024	10:00 AM	SW	2.0
13 Mar 2024	11:00 AM	SW	2.6
13 Mar 2024	12:00 PM	WSW	3.2
13 Mar 2024	1:00 PM	SW	2.7
13 Mar 2024	2:00 PM	W	2.3
13 Mar 2024	3:00 PM	SSW	2.6
13 Mar 2024	4:00 PM	WSW	1.2
13 Mar 2024	5:00 PM	SSW	2.1
13 Mar 2024	6:00 PM	WSW	1.9
13 Mar 2024	7:00 PM	W	1.5
13 Mar 2024	8:00 PM	SSW	1.1
13 Mar 2024	9:00 PM	SW	1.2
13 Mar 2024	10:00 PM	SSW	1.5
13 Mar 2024	11:00 PM	SW	1.0
14 Mar 2024	12:00 AM	SE	0.6
14 Mar 2024	1:00 AM	S	0.6
14 Mar 2024	2:00 AM	S	1.0
14 Mar 2024	3:00 AM	SSE	0.6
14 Mar 2024	4:00 AM	S	0.3
14 Mar 2024	5:00 AM	SSE	1.0
14 Mar 2024	6:00 AM	SSE	0.8

March 2024				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
14 Mar 2024	7:00 AM	WSW	0.8	
14 Mar 2024	8:00 AM	SSW	0.6	
14 Mar 2024	9:00 AM	SW	1.7	
14 Mar 2024	10:00 AM	SSW	1.5	
14 Mar 2024	11:00 AM	SSW	1.6	
14 Mar 2024	12:00 PM	SSE	1.0	
14 Mar 2024	1:00 PM	SW	0.8	
14 Mar 2024	2:00 PM	SE	1.0	
14 Mar 2024	3:00 PM	SW	1.3	
14 Mar 2024	4:00 PM	SSE	0.8	
14 Mar 2024	5:00 PM	S	0.9	
14 Mar 2024	6:00 PM	SW	1.0	
14 Mar 2024	7:00 PM	SSW	1.4	
14 Mar 2024	8:00 PM	SSW	1.1	
14 Mar 2024	9:00 PM	SSE	1.2	
14 Mar 2024	10:00 PM	S	0.7	
14 Mar 2024	11:00 PM	S	0.9	
15 Mar 2024	12:00 AM	SSE	0.9	
15 Mar 2024	1:00 AM	SE	0.4	
15 Mar 2024	2:00 AM	SE	0.7	
15 Mar 2024	3:00 AM	SSE	0.8	
15 Mar 2024	4:00 AM	SSE	1.1	
15 Mar 2024	5:00 AM	SSW	0.7	
15 Mar 2024	6:00 AM	SW	0.5	
15 Mar 2024	7:00 AM	SSW	0.3	
15 Mar 2024	8:00 AM	S	0.5	
15 Mar 2024	9:00 AM	S	1.4	
15 Mar 2024	10:00 AM	SW	1.6	
15 Mar 2024	11:00 AM	SSW	0.9	

March 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
15 Mar 2024	12:00 PM	S	1.3
15 Mar 2024	1:00 PM	SE	1.0
15 Mar 2024	2:00 PM	WSW	1.9
15 Mar 2024	3:00 PM	S	1.3
15 Mar 2024	4:00 PM	SSW	1.5
15 Mar 2024	5:00 PM	SSW	0.9
15 Mar 2024	6:00 PM	SW	0.4
15 Mar 2024	7:00 PM	SSW	0.5
15 Mar 2024	8:00 PM	SSW	0.8
15 Mar 2024	9:00 PM	S	0.6
15 Mar 2024	10:00 PM	SSE	0.3
15 Mar 2024	11:00 PM	SW	0.8
16 Mar 2024	12:00 AM	SSE	0.6
16 Mar 2024	1:00 AM	S	0.9
16 Mar 2024	2:00 AM	S	0.5
16 Mar 2024	3:00 AM	SSW	0.4
16 Mar 2024	4:00 AM	SSW	0.8
16 Mar 2024	5:00 AM	SSE	0.7
16 Mar 2024	6:00 AM	SSE	0.7
16 Mar 2024	7:00 AM	SE	0.8
16 Mar 2024	8:00 AM	ESE	0.6
16 Mar 2024	9:00 AM	S	0.4
16 Mar 2024	10:00 AM	SSW	0.9
16 Mar 2024	11:00 AM	S	0.9
16 Mar 2024	12:00 PM	S	0.6
16 Mar 2024	1:00 PM	S	0.7
16 Mar 2024	2:00 PM	SE	0.7
16 Mar 2024	3:00 PM	Е	0.9
16 Mar 2024	4:00 PM	SSE	0.4

March 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
16 Mar 2024	5:00 PM	SE	0.7
16 Mar 2024	6:00 PM	SSE	0.6
16 Mar 2024	7:00 PM	ESE	0.5
16 Mar 2024	8:00 PM	ESE	0.1
16 Mar 2024	9:00 PM	SSE	0.6
16 Mar 2024	10:00 PM	S	0.5
16 Mar 2024	11:00 PM	SSE	0.5
17 Mar 2024	12:00 AM	SSE	0.3
17 Mar 2024	1:00 AM	SSE	0.7
17 Mar 2024	2:00 AM	SSW	0.4
17 Mar 2024	3:00 AM	SSW	0.2
17 Mar 2024	4:00 AM	SSE	0.4
17 Mar 2024	5:00 AM	SE	0.4
17 Mar 2024	6:00 AM	SSW	0.9
17 Mar 2024	7:00 AM	SSW	0.5
17 Mar 2024	8:00 AM	SSW	0.8
17 Mar 2024	9:00 AM	S	0.6
17 Mar 2024	10:00 AM	SW	1.2
17 Mar 2024	11:00 AM	ESE	1.0
17 Mar 2024	12:00 PM	SSE	1.4
17 Mar 2024	1:00 PM	SE	1.5
17 Mar 2024	2:00 PM	SW	1.3
17 Mar 2024	3:00 PM	SSE	1.2
17 Mar 2024	4:00 PM	SSE	1.1
17 Mar 2024	5:00 PM	Е	0.9
17 Mar 2024	6:00 PM	SSW	0.9
17 Mar 2024	7:00 PM	S	0.2
17 Mar 2024	8:00 PM	S	0.1
17 Mar 2024	9:00 PM	SSE	0.2

March 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
17 Mar 2024	10:00 PM	S	0.3
17 Mar 2024	11:00 PM	SSE	0.1
18 Mar 2024	12:00 AM	S	0.0
18 Mar 2024	1:00 AM	SE	0.0
18 Mar 2024	2:00 AM	S	0.2
18 Mar 2024	3:00 AM	S	0.3
18 Mar 2024	4:00 AM	SSE	0.0
18 Mar 2024	5:00 AM	S	0.0
18 Mar 2024	6:00 AM	SSW	0.0
18 Mar 2024	7:00 AM	SE	0.2
18 Mar 2024	8:00 AM	W	1.2
18 Mar 2024	9:00 AM	SSW	0.7
18 Mar 2024	10:00 AM	SW	1.3
18 Mar 2024	11:00 AM	S	0.9
18 Mar 2024	12:00 PM	WSW	1.7
18 Mar 2024	1:00 PM	W	2.0
18 Mar 2024	2:00 PM	SW	1.2
18 Mar 2024	3:00 PM	S	0.8
18 Mar 2024	4:00 PM	SW	0.9
18 Mar 2024	5:00 PM	SW	1.2
18 Mar 2024	6:00 PM	WSW	1.6
18 Mar 2024	7:00 PM	WNW	1.7
18 Mar 2024	8:00 PM	SSW	0.9
18 Mar 2024	9:00 PM	SW	0.8
18 Mar 2024	10:00 PM	SSE	0.4
18 Mar 2024	11:00 PM	SSW	0.6
19 Mar 2024	12:00 AM	S	0.8
19 Mar 2024	1:00 AM	SSE	1.0
19 Mar 2024	2:00 AM	S	0.8

March 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
19 Mar 2024	3:00 AM	SSE	0.8
19 Mar 2024	4:00 AM	SSE	1.0
19 Mar 2024	5:00 AM	SSE	1.3
19 Mar 2024	6:00 AM	SSE	1.5
19 Mar 2024	7:00 AM	S	2.6
19 Mar 2024	8:00 AM	SSE	3.9
19 Mar 2024	9:00 AM	SSE	4.0
19 Mar 2024	10:00 AM	S	3.1
19 Mar 2024	11:00 AM	S	4.1
19 Mar 2024	12:00 PM	SE	2.6
19 Mar 2024	1:00 PM	S	3.1
19 Mar 2024	2:00 PM	S	2.6
19 Mar 2024	3:00 PM	S	3.3
19 Mar 2024	4:00 PM	SSE	2.9
19 Mar 2024	5:00 PM	SSE	2.6
19 Mar 2024	6:00 PM	S	3.3
19 Mar 2024	7:00 PM	SSE	2.7
19 Mar 2024	8:00 PM	S	2.4
19 Mar 2024	9:00 PM	S	0.8
19 Mar 2024	10:00 PM	SSE	1.0
19 Mar 2024	11:00 PM	S	1.2
20 Mar 2024	12:00 AM	S	1.3
20 Mar 2024	1:00 AM	SSE	1.3
20 Mar 2024	2:00 AM	S	1.3
20 Mar 2024	3:00 AM	SSW	1.7
20 Mar 2024	4:00 AM	S	1.7
20 Mar 2024	5:00 AM	S	2.5
20 Mar 2024	6:00 AM	S	1.8
20 Mar 2024	7:00 AM	S	2.1

March 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
20 Mar 2024	8:00 AM	S	2.7
20 Mar 2024	9:00 AM	S	2.3
20 Mar 2024	10:00 AM	S	2.1
20 Mar 2024	11:00 AM	S	2.0
20 Mar 2024	12:00 PM	SSE	1.3
20 Mar 2024	1:00 PM	SE	1.9
20 Mar 2024	2:00 PM	SE	2.1
20 Mar 2024	3:00 PM	S	1.4
20 Mar 2024	4:00 PM	SSE	1.5
20 Mar 2024	5:00 PM	S	1.1
20 Mar 2024	6:00 PM	SSW	0.5
20 Mar 2024	7:00 PM	SW	1.0
20 Mar 2024	8:00 PM	NW	2.9
20 Mar 2024	9:00 PM	W	3.0
20 Mar 2024	10:00 PM	W	2.2
20 Mar 2024	11:00 PM	W	2.1
21 Mar 2024	12:00 AM	WNW	2.5
21 Mar 2024	1:00 AM	SW	1.3
21 Mar 2024	2:00 AM	WSW	1.8
21 Mar 2024	3:00 AM	S	0.4
21 Mar 2024	4:00 AM	SSE	0.4
21 Mar 2024	5:00 AM	SSW	1.0
21 Mar 2024	6:00 AM	S	0.6
21 Mar 2024	7:00 AM	SSW	0.4
21 Mar 2024	8:00 AM	S	0.8
21 Mar 2024	9:00 AM	WSW	1.3
21 Mar 2024	10:00 AM	WSW	1.2
21 Mar 2024	11:00 AM	S	1.3
21 Mar 2024	12:00 PM	SSW	1.4

March 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
21 Mar 2024	1:00 PM	S	1.9
21 Mar 2024	2:00 PM	S	1.7
21 Mar 2024	3:00 PM	SW	1.5
21 Mar 2024	4:00 PM	W	1.6
21 Mar 2024	5:00 PM	W	1.3
21 Mar 2024	6:00 PM	W	1.4
21 Mar 2024	7:00 PM	SSW	0.8
21 Mar 2024	8:00 PM	SSW	0.9
21 Mar 2024	9:00 PM	S	0.6
21 Mar 2024	10:00 PM	SW	1.0
21 Mar 2024	11:00 PM	SW	1.4
22 Mar 2024	12:00 AM	SW	0.4
22 Mar 2024	1:00 AM	W	0.7
22 Mar 2024	2:00 AM	W	0.8
22 Mar 2024	3:00 AM	SSW	1.3
22 Mar 2024	4:00 AM	S	0.5
22 Mar 2024	5:00 AM	SW	0.7
22 Mar 2024	6:00 AM	WNW	1.5
22 Mar 2024	7:00 AM	WSW	1.3
22 Mar 2024	8:00 AM	SSW	0.7
22 Mar 2024	9:00 AM	SW	1.5
22 Mar 2024	10:00 AM	SW	2.7
22 Mar 2024	11:00 AM	SW	1.5
22 Mar 2024	12:00 PM	SSW	2.2
22 Mar 2024	1:00 PM	SW	1.5
22 Mar 2024	2:00 PM	S	1.7
22 Mar 2024	3:00 PM	S	1.8
22 Mar 2024	4:00 PM	SSW	1.4
22 Mar 2024	5:00 PM	SSE	1.3

March 2024				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
22 Mar 2024	6:00 PM	SW	1.3	
22 Mar 2024	7:00 PM	SW	1.3	
22 Mar 2024	8:00 PM	W	1.6	
22 Mar 2024	9:00 PM	SE	0.7	
22 Mar 2024	10:00 PM	SE	0.7	
22 Mar 2024	11:00 PM	SSE	0.4	
23 Mar 2024	12:00 AM	ESE	0.2	
23 Mar 2024	1:00 AM	SE	0.0	
23 Mar 2024	2:00 AM	SE	0.1	
23 Mar 2024	3:00 AM	WNW	0.6	
23 Mar 2024	4:00 AM	WNW	1.7	
23 Mar 2024	5:00 AM	WNW	1.3	
23 Mar 2024	6:00 AM	W	1.6	
23 Mar 2024	7:00 AM	SW	0.7	
23 Mar 2024	8:00 AM	SW	0.9	
23 Mar 2024	9:00 AM	SSE	0.7	
23 Mar 2024	10:00 AM	SE	1.2	
23 Mar 2024	11:00 AM	SSW	1.3	
23 Mar 2024	12:00 PM	S	1.8	
23 Mar 2024	1:00 PM	S	1.0	
23 Mar 2024	2:00 PM	SSE	1.6	
23 Mar 2024	3:00 PM	SSE	1.1	
23 Mar 2024	4:00 PM	SSE	0.8	
23 Mar 2024	5:00 PM	SE	1.3	
23 Mar 2024	6:00 PM	SE	1.3	
23 Mar 2024	7:00 PM	SW	1.3	
23 Mar 2024	8:00 PM	SE	0.9	
23 Mar 2024	9:00 PM	SE	0.6	
23 Mar 2024	10:00 PM	SE	0.5	

March 2024				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
23 Mar 2024	11:00 PM	SSE	0.9	
24 Mar 2024	12:00 AM	SSE	0.6	
24 Mar 2024	1:00 AM	SE	0.7	
24 Mar 2024	2:00 AM	SE	0.5	
24 Mar 2024	3:00 AM	SE	0.5	
24 Mar 2024	4:00 AM	S	0.7	
24 Mar 2024	5:00 AM	SSE	0.7	
24 Mar 2024	6:00 AM	SSE	0.5	
24 Mar 2024	7:00 AM	SW	1.2	
24 Mar 2024	8:00 AM	WNW	1.2	
24 Mar 2024	9:00 AM	SSW	1.5	
24 Mar 2024	10:00 AM	S	1.9	
24 Mar 2024	11:00 AM	S	1.5	
24 Mar 2024	12:00 PM	SSE	1.3	
24 Mar 2024	1:00 PM	SE	1.5	
24 Mar 2024	2:00 PM	WSW	1.8	
24 Mar 2024	3:00 PM	W	1.8	
24 Mar 2024	4:00 PM	SW	1.3	
24 Mar 2024	5:00 PM	SSW	0.9	
24 Mar 2024	6:00 PM	SW	0.8	
24 Mar 2024	7:00 PM	SW	1.1	
24 Mar 2024	8:00 PM	SW	0.6	
24 Mar 2024	9:00 PM	SSE	0.6	
24 Mar 2024	10:00 PM	SW	0.7	
24 Mar 2024	11:00 PM	SSE	0.4	
25 Mar 2024	12:00 AM	S	0.6	
25 Mar 2024	1:00 AM	SSW	0.5	
25 Mar 2024	2:00 AM	SSE	0.2	
25 Mar 2024	3:00 AM	SSE	0.3	

March 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
25 Mar 2024	4:00 AM	S	0.2
25 Mar 2024	5:00 AM	S	0.4
25 Mar 2024	6:00 AM	SE	0.2
25 Mar 2024	7:00 AM	SSW	0.9
25 Mar 2024	8:00 AM	S	0.9
25 Mar 2024	9:00 AM	SSE	0.8
25 Mar 2024	10:00 AM	SSE	1.0
25 Mar 2024	11:00 AM	SSW	1.2
25 Mar 2024	12:00 PM	SW	1.5
25 Mar 2024	1:00 PM	S	1.4
25 Mar 2024	2:00 PM	SSE	1.2
25 Mar 2024	3:00 PM	S	1.5
25 Mar 2024	4:00 PM	SSE	1.5
25 Mar 2024	5:00 PM	SSE	0.9
25 Mar 2024	6:00 PM	SE	0.6
25 Mar 2024	7:00 PM	SSE	0.7
25 Mar 2024	8:00 PM	SE	0.8
25 Mar 2024	9:00 PM	SE	0.4
25 Mar 2024	10:00 PM	S	0.7
25 Mar 2024	11:00 PM	S	0.9
26 Mar 2024	12:00 AM	SSE	0.2
26 Mar 2024	1:00 AM	SSE	0.6
26 Mar 2024	2:00 AM	SSE	0.1
26 Mar 2024	3:00 AM	SSE	0.0
26 Mar 2024	4:00 AM	S	0.3
26 Mar 2024	5:00 AM	S	0.4
26 Mar 2024	6:00 AM	S	0.6
26 Mar 2024	7:00 AM	SSE	0.4
26 Mar 2024	8:00 AM	S	0.5

March 2024									
	Wind Speed a	and Directions							
Date	Time	Direction	Wind Speed m-s						
26 Mar 2024	9:00 AM	SE	1.0						
26 Mar 2024	10:00 AM	S	1.2						
26 Mar 2024	11:00 AM	SSE	1.7						
26 Mar 2024	12:00 PM	SSE	0.9						
26 Mar 2024	1:00 PM	SSW	1.1						
26 Mar 2024	2:00 PM	SE	0.9						
26 Mar 2024	3:00 PM	SSE	1.1						
26 Mar 2024	4:00 PM	SE	0.6						
26 Mar 2024	5:00 PM	ESE	1.1						
26 Mar 2024	6:00 PM	WSW	0.7						
26 Mar 2024	7:00 PM	S	0.7						
26 Mar 2024	8:00 PM	SW	0.7						
26 Mar 2024	9:00 PM	W	2.1						
26 Mar 2024	10:00 PM	SW	1.3						
26 Mar 2024	11:00 PM	WSW	2.2						
27 Mar 2024	12:00 AM	WSW	1.9						
27 Mar 2024	1:00 AM	SW	1.2						
27 Mar 2024	2:00 AM	SSW	1.4						
27 Mar 2024	3:00 AM	SW	1.5						
27 Mar 2024	4:00 AM	SSW	1.4						
27 Mar 2024	5:00 AM	SSW	1.6						
27 Mar 2024	6:00 AM	SW	1.4						
27 Mar 2024	7:00 AM	WSW	1.3						
27 Mar 2024	8:00 AM	WSW	2.6						
27 Mar 2024	9:00 AM	W	2.3						
27 Mar 2024	10:00 AM	W	2.2						
27 Mar 2024	11:00 AM	SW	1.4						
27 Mar 2024	12:00 PM	W	2.5						
27 Mar 2024	1:00 PM	SSW	1.2						

March 2024									
	Wind Speed a	and Directions							
Date	Time	Direction	Wind Speed m-s						
27 Mar 2024	2:00 PM	SSW	1.7						
27 Mar 2024	3:00 PM	SSW	1.3						
27 Mar 2024	4:00 PM	WNW	1.8						
27 Mar 2024	5:00 PM	WSW	1.7						
27 Mar 2024	6:00 PM	W	1.4						
27 Mar 2024	7:00 PM	SSW	1.2						
27 Mar 2024	8:00 PM	SE	0.6						
27 Mar 2024	9:00 PM	S	0.9						
27 Mar 2024	10:00 PM	SW	0.6						
27 Mar 2024	11:00 PM	SW	1.0						
28 Mar 2024	12:00 AM	S	1.0						
28 Mar 2024	1:00 AM	SW	1.7						
28 Mar 2024	2:00 AM	SW	1.4						
28 Mar 2024	3:00 AM	WNW	1.4						
28 Mar 2024	4:00 AM	SW	0.9						
28 Mar 2024	5:00 AM	SSE	0.4						
28 Mar 2024	6:00 AM	SSW	1.0						
28 Mar 2024	7:00 AM	S	1.3						
28 Mar 2024	8:00 AM	SSW	1.4						
28 Mar 2024	9:00 AM	SSW	0.9						
28 Mar 2024	10:00 AM	S	0.6						
28 Mar 2024	11:00 AM	S	1.6						
28 Mar 2024	12:00 PM	ESE	0.8						
28 Mar 2024	1:00 PM	S	0.9						
28 Mar 2024	2:00 PM	SSE	0.8						

March 2024									
	Wind Speed a	and Directions							
Date	Time	Direction	Wind Speed m-s						
28 Mar 2024	3:00 PM	SE	0.6						
28 Mar 2024	4:00 PM	SSE	1.0						
28 Mar 2024	5:00 PM	SE	0.6						
28 Mar 2024	6:00 PM	W	1.2						
28 Mar 2024	7:00 PM	SSW	0.6						
28 Mar 2024	8:00 PM	SSE	0.4						
28 Mar 2024	9:00 PM	ESE	0.4						
28 Mar 2024	10:00 PM	SSE	0.8						
28 Mar 2024	11:00 PM	SE	0.5						
29 Mar 2024	12:00 AM	S	0.6						
29 Mar 2024	1:00 AM	SSW	0.5						
29 Mar 2024	2:00 AM	S	0.3						
29 Mar 2024	3:00 AM	S	0.5						
29 Mar 2024	4:00 AM	SSW	0.5						
29 Mar 2024	5:00 AM	SW	1.0						
29 Mar 2024	6:00 AM	SSW	0.9						
29 Mar 2024	7:00 AM	SSE	0.9						
29 Mar 2024	8:00 AM	SW	1.1						
29 Mar 2024	9:00 AM	SW	0.9						
29 Mar 2024	10:00 AM	S	0.9						
29 Mar 2024	11:00 AM	SSE	1.2						
29 Mar 2024	12:00 PM	SSE	0.7						
29 Mar 2024	1:00 PM	ESE	0.9						
29 Mar 2024	2:00 PM	WSW	2.0						
29 Mar 2024	3:00 PM	W	1.4						
29 Mar 2024	4:00 PM	SW	1.6						
29 Mar 2024	5:00 PM	SE	0.9						
29 Mar 2024	6:00 PM	S	0.9						

March 2024									
	Wind Speed a	and Directions							
Date	Time	Direction	Wind Speed m-s						
29 Mar 2024	7:00 PM	S	0.9						
29 Mar 2024	8:00 PM	SE	0.8						
29 Mar 2024	9:00 PM	SE	0.5						
29 Mar 2024	10:00 PM	S	0.6						
29 Mar 2024	11:00 PM	SSW	1.1						
30 Mar 2024	12:00 AM	SSW	1.1						
30 Mar 2024	1:00 AM	SW	1.0						
30 Mar 2024	2:00 AM	SSW	1.0						
30 Mar 2024	3:00 AM	SSE	0.6						
30 Mar 2024	4:00 AM	S	0.5						
30 Mar 2024	5:00 AM	SSE	0.5						
30 Mar 2024	6:00 AM	S	0.4						
30 Mar 2024	7:00 AM	ESE	0.5						
30 Mar 2024	8:00 AM	SSE	0.7						
30 Mar 2024	9:00 AM	S	1.4						
30 Mar 2024	10:00 AM	S	1.2						
30 Mar 2024	11:00 AM	SSE	1.1						
30 Mar 2024	12:00 PM	SSE	1.2						
30 Mar 2024	1:00 PM	WSW	1.1						
30 Mar 2024	2:00 PM	SSW	1.1						
30 Mar 2024	3:00 PM	S	1.0						
30 Mar 2024	4:00 PM	WSW	1.2						
30 Mar 2024	5:00 PM	SW	1.2						
30 Mar 2024	6:00 PM	SSE	1.1						
30 Mar 2024	7:00 PM	SSE	0.7						
30 Mar 2024	8:00 PM	SSW	0.8						
30 Mar 2024	9:00 PM	SSE	1.1						
30 Mar 2024	10:00 PM	S	0.9						
30 Mar 2024	11:00 PM	SE	0.9						

March 2024									
	Wind Speed a	and Directions							
Date	Time	Direction	Wind Speed m-s						
31 Mar 2024	12:00 AM	SSE	0.9						
31 Mar 2024	1:00 AM	SSE	0.7						
31 Mar 2024	2:00 AM	SE	0.6						
31 Mar 2024	3:00 AM	SE	0.6						
31 Mar 2024	4:00 AM	SE	0.5						
31 Mar 2024	5:00 AM	S	0.5						
31 Mar 2024	6:00 AM	SSE	0.6						
31 Mar 2024	7:00 AM	SE	1.0						
31 Mar 2024	8:00 AM	SE	1.0						
31 Mar 2024	9:00 AM	SSE	1.3						
31 Mar 2024	10:00 AM	SSW	1.2						
31 Mar 2024	11:00 AM	S	1.8						
31 Mar 2024	12:00 PM	SE	1.7						
31 Mar 2024	1:00 PM	SE	1.5						
31 Mar 2024	2:00 PM	SE	1.5						
31 Mar 2024	3:00 PM	S	1.5						
31 Mar 2024	4:00 PM	SE	1.5						
31 Mar 2024	5:00 PM	SSE	1.7						
31 Mar 2024	6:00 PM	SSE	1.0						
31 Mar 2024	7:00 PM	SSE	1.4						
31 Mar 2024	8:00 PM	SE	0.8						
31 Mar 2024	9:00 PM	ESE	0.7						
31 Mar 2024	10:00 PM	SSW	0.9						
31 Mar 2024	11:00 PM	SSE	0.9						

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Impact Monitoring Results

Location CKL1 - Flat 121 Cha Kwo Ling Village

Start Date	Weather	Air Temp.	Atmospheric	Filter W	Filter Weight (g)		Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol.	Conc.	Action Level	Limit Level
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	(µg/m3)	(µg/m3)
1-Mar-24	Cloudy	285.7	767.3	3.3684	3.5119	0.1435	7368.7	7392.7	24.0	1.22	1.23	1.23	1766.1	81.2		
7-Mar-24	Cloudy	291.8	764.3	3.6968	3.8848	0.1879	7392.7	7416.7	24.0	1.22	1.22	1.22	1757.6	106.9		
13-Mar-24	Fine	292.6	764.5	3.7101	4.0147	0.3046	7416.7	7440.7	24.0	1.22	1.22	1.22	1755.8	173.5	191.0	260.0
19-Mar-24	Fine	294.0	766.7	3.3123	3.4757	0.1633	7440.7	7464.7	24.0	1.22	1.22	1.22	1754.5	93.1	101.0	200.0
25-Mar-24	Fine	299.1	762.8	3.3471	3.6262	0.2791	7464.7	7488.7	24.0	1.21	1.21	1.21	1739.1	160.5		
27-Mar-24	Sunny	296.6	763.2	3.3027	3.4516	0.1489	7488.7	7512.7	24.0	1.21	1.21	1.21	1745.3	85.3		
Note:	Bold Italic means A	Action Level exc	eedance										Min	81.2		
	Bold Italic with un	derline means	Limit Level exceedance										Max	173.5		
													Average	116.8	1	

Location CKL2 - Flat 103 Cha Kwo Ling Village

Start Date	Weather	Air Temp.	Atmospheric	Filter W	Filter Weight (g)		Elapse Time		Sampling	Flow Rate	Flow Rate (m ³ /min.)		Total vol.	Conc.	Action Level	Limit Level
otart Bato	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	(µg/m3)	(µg/m3)
1-Mar-24	Cloudy	285.7	767.3	3.3464	3.5417	0.1953	19798.6	19822.6	24.0	1.22	1.23	1.22	1763.3	110.8		
7-Mar-24	Cloudy	291.8	764.3	3.3097	3.5026	0.1929	19822.6	19846.6	24.0	1.22	1.22	1.22	1761.6	109.5		
13-Mar-24	Fine	292.6	764.5	3.3075	3.6687	0.3612	19846.6	19870.6	24.0	1.22	1.22	1.22	1759.0	205.3	183.0	260.0
19-Mar-24	Fine	294.0	766.7	3.3522	3.5744	0.2222	19870.6	19894.6	24.0	1.22	1.22	1.22	1757.7	126.4	100.0	200.0
25-Mar-24	Sunny	299.1	762.8	3.3008	3.5500	0.2492	19918.6	19942.6	24.0	1.21	1.21	1.21	1742.5	143.0		
27-Mar-24	Sunny	296.6	763.2	3.3670	3.6027	0.2357	19942.6	19966.6	24.0	1.22	1.21	1.21	1748.6	134.8		
Note:	Bold Italic means A	Action Level exc	eedance										Min	109.5		
	Bold Italic with une	derline means	Limit Level exceedance										Max	205.3		
													Average	138.3]	

Location KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

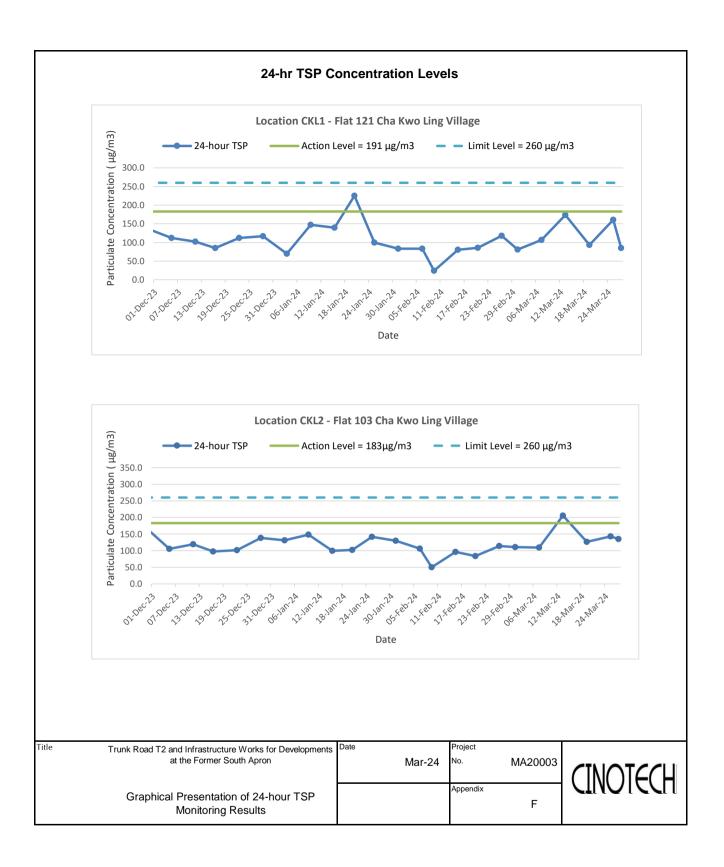
Start Date	Weather	Air Temp.	Atmospheric		Filter Weight (g)		Elaps	e Time	Sampling	Flow Rate (m ³ /min.)		Av. Flow	Total vol.	Conc.	Action Level	Limit Level
otart Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	(µg/m3)	(µg/m3)
1-Mar-24	Cloudy	285.7	767.3	3.3517	3.3827	0.0310	18687.2	18711.2	24.0	1.23	1.24	1.23	1777.4	17.5		
7-Mar-24	Cloudy	291.8	764.3	3.7082	3.7698	0.0616	18711.2	18735.2	24.0	1.22	1.22	1.22	1759.0	35.0		
13-Mar-24	Sunny	292.6	764.5	3.6985	3.9191	0.2206	18735.2	18759.2	24.0	1.21	1.21	1.21	1742.1	126.6	177.0	260.0
19-Mar-24	Fine	294.0	766.7	3.3831	3.4375	0.0544	18759.2	18783.2	24.0	1.21	1.21	1.21	1740.8	31.2	177.0	200.0
25-Mar-24	Sunny	299.1	762.8	3.3173	3.3632	0.0459	18783.2	18807.2	24.0	1.20	1.20	1.20	1724.8	26.6		
27-Mar-24	Sunny	296.6	763.2	3.3366	3.4115	0.0749	18807.2	18831.2	24.0	1.21	1.20	1.20	1731.2	43.2		
lote:	Bold Italic means	Action Level exc	eedance										Min	17.5		
	Bold Italic with un	derline means	Limit Level exceedance										Max	126.6		
													Average	46.7		

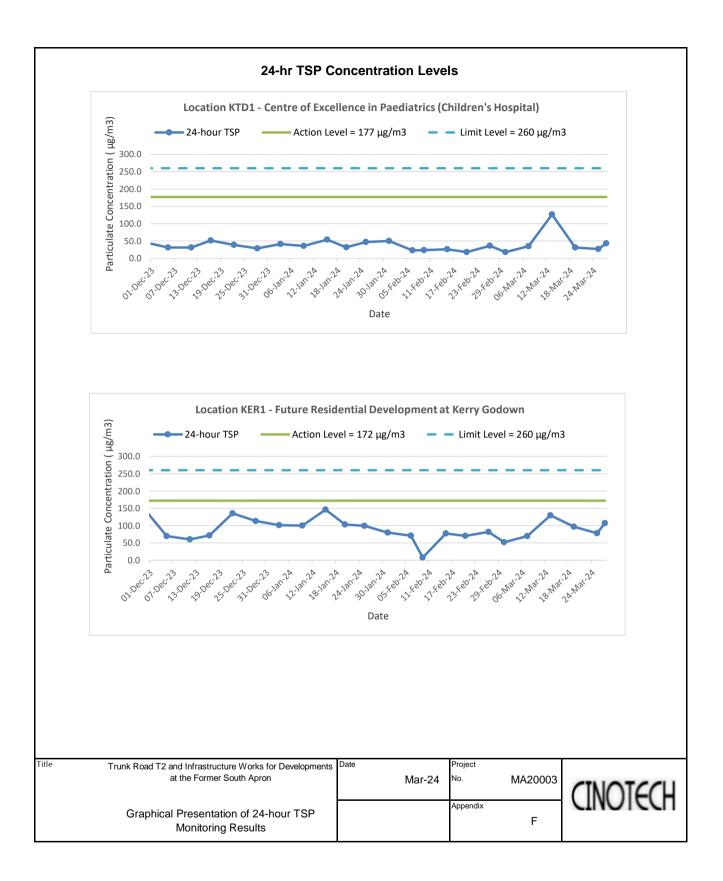
Location KER1 - Future Residential Development at Kerry Godown

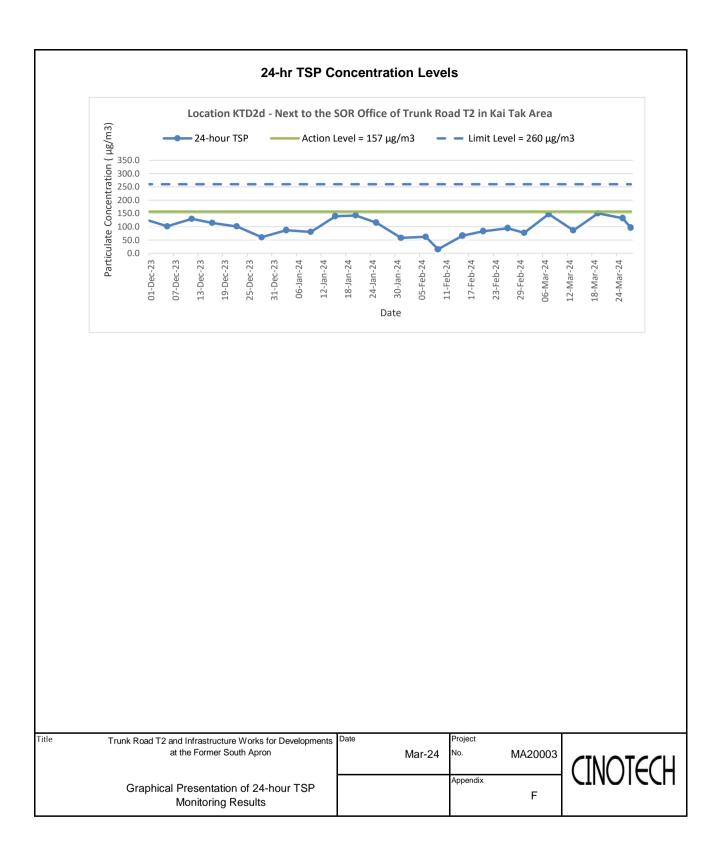
Start Date	Weather	Air Temp.	Atmospheric	Filter W	Filter Weight (g)		Elaps	e Time	Sampling	Sampling Flow Rate (m ³ /min.)		Av. Flow	Total vol.	Conc.	Action Level	Limit Level
otan Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	(µg/m3)	(µg/m3)
1-Mar-24	Cloudy	285.7	767.3	3.3466	3.4388	0.0922	16489.6	16513.6	24.0	1.23	1.23	1.23	1776.0	51.9		
7-Mar-24	Cloudy	291.8	764.3	3.3774	3.5006	0.1231	16513.6	16537.6	24.0	1.22	1.22	1.22	1757.2	70.1		
13-Mar-24	Fine	292.6	764.5	3.6736	3.8993	0.2256	16537.6	16561.6	24.0	1.21	1.21	1.21	1742.0	129.5	172.0	260.0
19-Mar-24	Fine	294.0	766.7	3.3623	3.5314	0.1691	16561.6	16585.6	24.0	1.21	1.21	1.21	1740.6	97.1	172.0	200.0
25-Mar-24	Sunny	299.1	762.8	3.3267	3.4610	0.1343	16585.6	16609.6	24.0	1.20	1.20	1.20	1723.2	77.9		
27-Mar-24	Sunny	296.6	763.2	3.3456	3.5309	0.1854	16609.6	16633.6	24.0	1.20	1.20	1.20	1730.1	107.1		
Note:	Bold Italic means A	Action Level exce	eedance										Min	51.9		
	Bold Italic with und	derline means	Limit Level exceedance										Max	129.5		
													Average	89.0	1	

Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

Start Date	Weather	Air Temp.	Atmospheric	Filter W	Filter Weight (g)		Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol.	Conc.	Action Level	Limit Level
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Initial Final v		Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$	(µg/m3)	(µg/m3)
1-Mar-24	Cloudy	285.7	767.3	3.7165	3.8550	0.1385	17141.7	17165.7	24.0	1.24	1.25	1.25	1793.8	77.2		
7-Mar-24	Cloudy	291.8	764.3	3.3350	3.5981	0.2631	17165.7	17189.7	24.0	1.23	1.23	1.23	1775.5	148.2		
13-Mar-24	Fine	292.6	764.5	3.3200	3.4692	0.1492	17264.7	17288.7	24.0	1.21	1.21	1.21	1742.6	85.6	157.0	260.0
19-Mar-24	Fine	294.0	766.7	3.3964	3.6578	0.2615	17288.7	17312.7	24.0	1.21	1.21	1.21	1742.1	150.1	107.0	200.0
25-Mar-24	Sunny	299.1	762.8	3.3585	3.5860	0.2276	17312.7	17336.7	24.0	1.20	1.20	1.20	1725.9	131.9		
27-Mar-24	Sunny	296.6	763.2	3.3380	3.5043	0.1663	17336.7	17360.7	24.0	1.21	1.20	1.20	1732.0	96.0		
Note:	Bold Italic means A	Action Level exce	edance										Min	77.2		
	Bold Italic with und	derline means	Limit Level exceedance										Max	150.1		
													Average	114.8		







APPENDIX G COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING

Report No.

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

: 00419



Issue Date : 22 Aug 2023

: HP00291 Application No. **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 informatio

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

Date Received	:	14 Aug 2023
Test Period	:	16 Aug 2023 to 16 Aug 2023
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.

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

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

Lee Wai Kit Laboratory Manager

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

:

:



Issue Date : 22 Aug 2023

Report No.:00419Application No.:HP00291

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.

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



Issue Date : 24 Jul 2023

Report No.:00390Application No.:HP00263

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-08-12

Manufacturer: : SVANTEK

Other information	:	Model No.	SVAN 957
		Serial No.	23851
		Microphone No.	22391

Date Received	:	18 Jul 2023
Test Period	:	20 Jul 2023 to 20 Jul 2023
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.

Lee Wai Kit Laboratory Manager

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

:

:



Issue Date : 24 Jul 2023

Report No.:00390Application No.:HP00263

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	93.9	- 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.

Report No.

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

: 00405



Issue Date : 10 Aug 2023

: HP00283 Application No. **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-08-01 Manufacturer: : SVANTEK Other information : Model No. **SVAN 959** Serial No. 11275 Microphone No. 22452

Date Received	:	07 Aug 2023
Test Period	:	09 Aug 2023 to 09 Aug 2023
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.

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

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

Lee Wai Kit Laboratory Manager

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

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Issue Date : 10 Aug 2023

Report No.:00405Application No.:HP00283

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.

Report No.

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

: 00372



Issue Date : 02 May 2023

: HP00246 Application No. **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-12-03 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 570188 Microphone No. 570608

Date Received	:	02 May 2023
Test Period	:	02 May 2023 to 02 May 2023
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.

Lee Wai Kit Laboratory Manager

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

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Issue Date : 02 May 2023

Report No.:00372Application No.:HP00246

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.

Report No.

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

: 00380



10 May 2023

Issue Date :

Application No. : HP00252 **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-13-03 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001637 : 09 May 2023 Date Received Test Period : 09 May 2023 to 09 May 2023 : Performance checking for Sound Level Calibrator **Test Requested** 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

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

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Report No.:00380Application No.:HP00252

<u>Certificate of Calibration</u>

Measuring equipment

Description	Sound Calibrator		
Manufacturer	Brüel & Kjær		
Model No.	TYPE 4231		
Serial No.	2326353		
Equipment No.	N-02-01		
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	114.2	+ 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 -

Issue Date : 10 May 2023

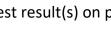
Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk



: 00389 Issue Date : 20 Jul 2023 Report No. Application No. : HP00262 **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 : 18 Jul 2023 Date Received Test Period : 19 Jul 2023 to 19 Jul 2023 : Performance checking for Sound Level Calibrator **Test Requested** 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.

Lee Wai Kit Laboratory Manager



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

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Issue Date : 20 Jul 2023

Report No.:00389Application No.:HP00262

<u>Certificate of Calibration</u>

Measuring equipment

Description	Sound Calibrator		
Manufacturer	Brüel & Kjær		
Model No.	TYPE 4231		
Serial No.	2326353		
Equipment No.	N-02-01		
Description	Sound Meter		
Manufacturer	BSWA Technology		
Model No.	BSWA 308		
Serial No.	570183		
Microphone No.	570605		
	N 40.04		
Equipment No.	N-12-01		

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.

APPENDIX H NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix H - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location CKL1 - Flat 121 Cha Kwo Ling Village								
			Unit: dB (A) (30-min)					
Time	Weather	Measured Noise Level Baseline			Baseline Level	Construction Noise Level		
Time	Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
14:49	Cloudy	74.5	77.9	67.5	72.4	70		
11:33	Fine	75.3	79.3	62.2	72.4	72		
10:00	Fine	74.2	77.8	64.0	72.4	70		
13:00	Sunny	75.0	78.8	60.8	72.4	72		
	Time 14:49 11:33 10:00	Time Weather 14:49 Cloudy 11:33 Fine 10:00 Fine	Time Weather Measure 14:49 Cloudy 74.5 11:33 Fine 75.3 10:00 Fine 74.2	Time Weather Unit: dB Heasured Noise I Leq L10 14:49 Cloudy 74.5 77.9 11:33 Fine 75.3 79.3 10:00 Fine 74.2 77.8	Time Weather Unit: dB (A) (30-min) Measured Noise Level Leq L10 L90 14:49 Cloudy 74.5 77.9 67.5 11:33 Fine 75.3 79.3 62.2 10:00 Fine 74.2 77.8 64.0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		

Location CKL2 - Flat 103 Cha Kwo Ling Village

				Unit: dB (A) (30-min)			
Date	Date Time		Measured Noise Level			Baseline Level	Construction Noise Level
Date	Time	Weather			_		_
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Mar-24	15:29	Cloudy	76.8	79.0	71.6	71.4	75
14-Mar-24	10:57	Fine	76.9	80.5	63.2	71.4	75
20-Mar-24	12:55	Fine	72.9	76.7	62.5	71.4	68
26-Mar-24	13:45	Sunny	71.1	74.3	60.6	71.4	71.1 Measured ≤ Baseline

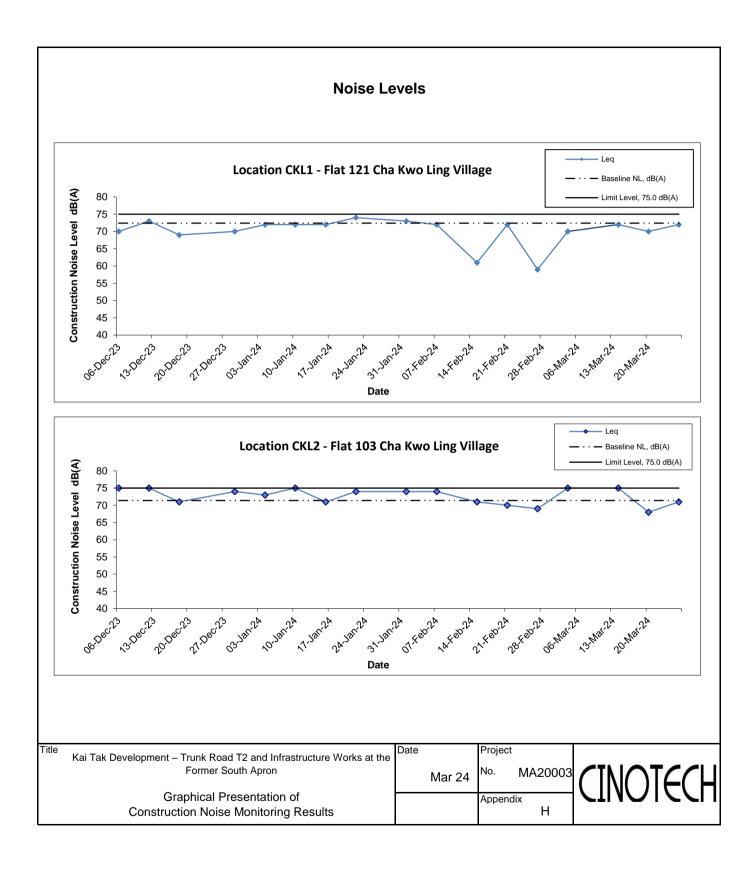
Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)

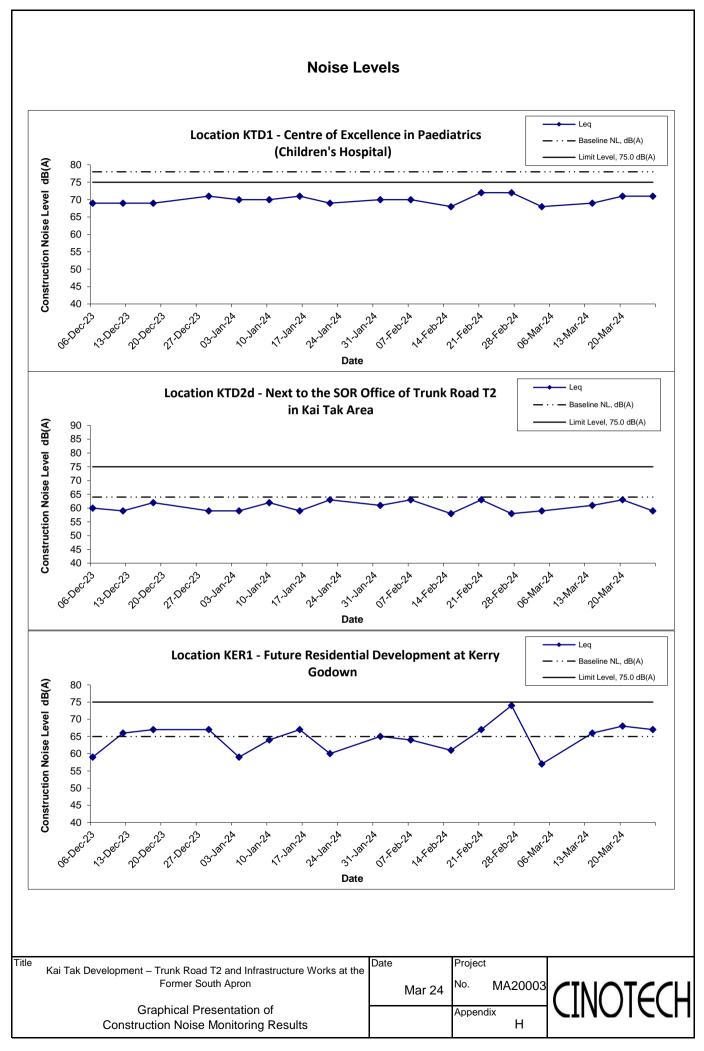
					Unit:	dB (A) (30-min)		
Date	Time	Weather	Meas	sured Noise I	Level	Baseline Level	Construction Noise Level	
Duio	Time	Weather						
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
4-Mar-24	12:22	Cloudy	67.9	69.2	66.6	78.0	67.9 Measured ≦ Baseline	
14-Mar-24	10:38	Fine	68.5	69.8 67.1 78.0		68.5 Measured ≦ Baseline		
20-Mar-24	14:55	Fine	e 71.0 72.5 69.5		78.0	71 Measured ≦ Baseline		
26-Mar-24	16:00	Sunny	70.5 71.9 6		68.4	78.0	70.5 Measured ≦ Baseline	

Location KER1 - Future Residential Development at Kerry Godown

					Unit:	dB (A) (30-min)		
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Date	Time	weather						
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
4-Mar-24	13:39	Cloudy	65.6	66.8	63.4	65.0	57	
14-Mar-24	11:52	Fine	68.7	70.4	64.0	65.0	66	
20-Mar-24	13:55	Fine	69.5	71.0	66.1	65.0	68	
26-Mar-24	17:00	Sunny	68.9	71.7	64.1	65.0	67	

Location KTD2	Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area								
					Unit:	dB (A) (30-min)			
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level		
Duto	Time	Weather							
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
4-Mar-24	11:11	Cloudy	59.4	61.3	56.4	64.0	59 Measured ≤ Baseline		
14-Mar-24	13:00	Fine	65.8	68.5	61.5	64.0	61		
20-Mar-24	13:00	Fine	63.2	65.9	59.6	64.0	63 Measured ≦ Baseline		
26-Mar-24	15:00	Sunny	59.3 61.1		55.3	64.0	59 Measured \leq Baseline		





APPENDIX I SITE AUDIT SUMMARY

Contract No. ED/2018/04

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

Weekly Site Inspection Record Summary Inspection Information 240307 Checklist Reference Number 240307 Date 7 March 2024 (Thursday) Time 09:20 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:240229), all the items have been rectified.	

	Name	Signature	Date
Recorded by	Alex Ng	Alr	7 March 2024
Checked by	Karina Chan	Julle	8 March 2024

Contract No. ED/2018/04 Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

Weekly Site Inspection Record Summary Inspection Information

Inspection Information				
Checklist Reference Number	240314			
Date	14 March 2024 (Thursday)			
Time	09:20 - 12:00			

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
240314-R1	• Drip tray should be provided for chemical / oil containers to prevent leakage at OHVD.	E9
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:240307), all the items have been rectified.	

	Name	Signature	Date
Recorded by	Eric Hung	UMA-	14 March 2024
Checked by	Karina Chan	Zelle	15 March 2024

Contract No. ED/2018/04 Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

Weekly Site Inspection Record Summary Inspection Information

Inspection Information	
Checklist Reference Number	240321
Date	21 March 2024 (Thursday)
Time	09:20 - 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
240321-R1	• Drip tray should be provided for chemical / oil containers to prevent leakage.	<i>E9</i>
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:240314), all the items have been rectified.	

	Name	Signature	Date
Recorded by	Eric Hung	UMA-	21 March 2024
Checked by	Karina Chan	Zelle	22 March 2024

Contract No. ED/2018/04 Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

Weekly Site Inspection Record Summary

Ins	specti	ion I	nfo	rmation	

Checklist Reference Number	240328
Date	28 March 2024 (Thursday)
Time	09:20 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
240328-R2	• More than 20 cement bags should be covered.	C20
240328-R3	• NRMM label should be provided to the PME.	C21
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
240328-R1	Used cement bags should be removed	Eliii
240328-R4	• Oil drum should be removed.	<i>E9</i>
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:240321), all the items have been rectified.	

	Name	Signature	Date
Recorded by	Charles Fung	Chrom	28 March 2024
Checked by	Karina Chan	Jull	29 March 2024

Contract No. ED/2020/03

Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and Associated Works

Site Inspection Record Summary Inspection Information

Checklist Reference Number	240315
Date	15 March 2024 (Friday)
Time	09:30 - 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection	
	I. Others	
	• Follow up on the previous session (Ref No.:230216), no major environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Alex Ng	Ali	15 March 2024
Checked by	Karina Chan	Julle	16 March 2024

Contract No. ED/2020/03

Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and Associated Works

Site Inspection Record Summary Inspection Information Checklist Reference Number

Checklist Reference Number	240321
Date	21 March 2024 (Thursday)
Time	09:30 - 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection	
	I. Others	
	• Follow up on the previous session (Ref No.:230315), no major environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Eric Hung	UNE	21 March 2024
Checked by	Karina Chan	Zalle	22 March 2024

Contract No. ED/2020/03 Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and Associated Works

Site Inspection Record Summary Inspection Information

Checklist Reference Number	240328
Date	28 March 2024 (Friday)
Time	09:30 - 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	 No environmental deficiency was identified during site inspection. 	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	 No environmental deficiency was identified during site inspection 	
	I. Others	
	• Follow up on the previous session (Ref No.:230321), no major environmental deficiency was	
	identified during site inspection.	

	Name	Signature	Date
Recorded by	Charles Fung	Chrom	28 March 2024
Checked by	Checked by Karina Chan		29 March 2024

APPENDIX J EVENT AND ACTION PLANS

.		Construction Dust Monitor Ac	tion	
Event	ET	IEC	ER	Contractor
Action Level				
 Exceedance for one sample 	 Identify source, investigate the causes of complaint and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods agreed with the ER as appropriate.
2. Exceedance by two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC, ER and Contractor on remedial actions required; 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures if required; Advise the ER on the effectiveness of the proposed remedial measures; 	 Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate.

Table J-1Event/Action Plan for Air Construction Dust Monitoring

	Action			
Event	ET	IEC	ER	Contractor
Limit level 1. Exceedance for one sample	 7. If exceedance continues, arrange meeting with IEC, Contractor and ER; 8. If exceedance stops, cease additional monitoring. 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform the IEC, ER, and Contractor; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; Advise the ER and ET on the effectiveness of the proposed remedial measures; 	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to the ER and copy to the ET and IEC within three working days of notification; Implement the agreed proposals; Amend proposal if
	Contractor's remedial actions and keep IEC and ER informed of the results.	5. Supervise implementation of remedial measures.		appropriate.
2. Exceedance for two or more	1. Notify IEC, ER and Contractor;	1. Discuss amongst ER, ET, and Contractor on the potential	1. Confirm receipt of notification of exceedance in	 Take immediate action to avoid further exceedance;
consecutive	2. Identify source;	remedial actions;	writing;	2. Submit proposals for remedial

E	Action				
Event	ET	IEC	ER	Contractor	
samples	3. Repeat measurement to	2. Review Contractor's	2. Notify Contractor;	actions to ER and copy to the	
	confirm findings;	remedial actions whenever	3. In consolidation with the IEC	IEC and ET within three	
	4. Increase monitoring	necessary to assure their	and ET, agree with the	working days of notification;	
	frequency to daily;	effectiveness and advise the	Contractor on the remedial	3. Implement the agreed	
	5. Carry out analysis of	ER and ET accordingly;	measures to be implemented;	proposals;	
	Contractor's working	3. Supervise the	4. Ensure remedial measures	4. Resubmit proposals if	
	procedures with the ER to	implementation of remedial	properly implemented;	problem still not under	
	determine possible mitigation	measures.	5. If exceedance continues,	control;	
	to be implemented;		consider what portion of the	5. Stop the relevant portion of	
	6. Arrange meeting with IEC		work is responsible and	works as determined by the	
	and ER to discuss the		instruct the Contractor to	ER until the exceedance is	
	remedial actions to be taken;		stop that portion of work	abated.	
	7. Assess effectiveness of		until the exceedance is		
	Contractor's remedial actions		abated.		
	and keep IEC, EPD and ER				
	informed of the results;				
	8. If exceedance stops, cease				
	additional monitoring.				

Table J-2		struction Noise Monitoring		
Event		Act	tion	
Event	ET	IEC	ER	Contractor
Action Level	1. Notify IEC, ER and	1. Review the monitoring data	1. Notify Contractor;	1. Submit noise mitigation
	Contractor;	submitted by the ET;	2. Require Contractor to propose	proposals to the ER and copy
	2. Carry out investigation;	2. Review the construction	remedial measures for	to the IEC and ET;
	3. Report the results of	methods and proposed redial	implementation if required.	2. Implement noise mitigation
	investigation to the IEC and	measures by the Contractor,		proposals.
	Contractor;	and advise the ET and ER if		
	4. Discuss jointly with the ER	the proposed remedial		
	and formulate remedial	measures would be		
	measures;	sufficient.		
	5. Increase monitoring			
	frequency to check			
	mitigation effectiveness.			
Limit Level	1. Notify IEC, ER and	1. Discuss amongst ER, ET, and	1. Confirm receipt of	1. Take immediate action to
	Contractor;	Contractor on the potential	notification of failure in	avoid further exceedance;
	2. Identify source;	remedial actions;	writing;	2. Submit proposals for
	3. Repeat measurements to	2. Review the Contractor's	2. Notify Contractor;	remedial actions to the ER
	confirm findings;	remedial actions whenever	3. Require Contractor to	and copy to the ET and IEC
	4. Carry out analysis of	necessary to assure their	propose remedial measures	within 3 working days of
	Contractor's working	effectiveness and advise the	for the analysed noise	notification;

Table J-2Event/Action Plan for Construction Noise Monitoring

E		Act	tion	
Event	ET	IEC	ER	Contractor
	procedures to determine	ER accordingly;	problem;	3. Implement the agreed
	possible mitigation to be	3. Supervise the	4. Ensure remedial measures	proposals;
	implemented;	implementation of remedial	properly implemented;	4. Resubmit proposals if
	5. Record the causes and action	measures.	5. If exceedance continues,	problem still not under
	taken for the exceedances;		consider what portion of the	control;
	6. Increase the monitoring		work is responsible and	5. Stop the relevant portion of
	frequency;		instruct the Contractor to stop	works as determined by the
	7. Assess the effectiveness of		that portion of work until the	ER until the exceedance is
	the Contractor's remedial		exceedance is abated.	abated.
	action with the ER and keep			
	the IEC informed of the			
	results;			
	8. If exceedance stops, cease			
	additional monitoring.			

Event		-	Action	
	ET	IEC	ER	Contractor
Non-conformity	1. Identify Source;	1. Check report;	1. Notify Contractor;	1. Amend working methods;
on one occasion	2. Inform the IEC and the ER;	2. Check Contractor's working	2. Ensure remedial measures	2. Rectify damage and undertake
	3. Discuss remedial actions with	method;	are properly implemented.	any necessary replacement.
	IEC, ER and Contractor	3. Discuss with ET and the		
	4. Monitor remedial actions until	Contractor on possible		
	rectification has been	remedial measures;		
	completed.	4. Advise ER on effectiveness		
		of proposed remedial		
		measures;		
		5. Check implementation of		
		remedial measures		

Table J-3Event/Action Plan for Landscape and Visual

Event		1	Action	
	ET	IEC	ER	Contractor
Repeated	1. Identify source;	1. Check monitoring report;	1. Notify Contractor;	1. Amend working methods;
Non-conformity	2. Inform the IEC and the ER;	2. Check Contractor's working	2. Ensure remedial measures	2. Rectify damage and undertake
	3. Increase monitoring frequency;	method;	are properly implemented.	any necessary replacement.
	4. Discuss remedial actions with	3. Discuss with ET and the		
	the IEC, the ER and the	Contractor on possible		
	Contractor;	remedial measures;		
	5. Monitor remedial actions until	4. Advise ER on effectiveness		
	rectification has been	of proposed remedial		
	completed;	measures;		
	6. If exceedance stops, cease	5. Check implementation of		
	additional monitoring.	remedial measures		

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	d Agent	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		or Requirement		n Stages	Status
						D	С	0			
Air Quality Imp	act										
S2.3.1.1	The specific mitigation comprises the following: watering of the construction areas 12 times per day to reduce dust emissions by	To minimize dust emission during construction works	All relevant works sites, conveyor belts and stockpiles	Contractor and Sub- contractors	APCO / EIAO	Y	Y		۸		
	AP-42). The amount of water to be applied would be 0.91L/m ² for the respective watering frequency;										
	Dust enclosures with watering would be provided along the loading ramps and conveyor belts for unloading the C&D materials to the barge for dust suppression; and								N/A(1)		
	3-sided barriers around the stockpiling areas WA3 and WA4.								٨		
\$2.3.1.2	The dust control measures detailed below shall also be incorporated into the Contract Specification where practicable as an integral part of good construction practice:	To minimize dust emission during construction works	All relevant works sites	Contractor and Sub- contractors	APCO / EIAO	Y	Y		۸		
	Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather;										
	Use of frequent watering for particularly dusty construction areas and areas close to ASRs;								٨		
	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;								٨		

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	n Stages	Status
						D	С	0	
	Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs;								*
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;								٨
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								٨
	Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit;								N/A(1)
	Routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs;								٨
	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;								*
	Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; and								N/A(1)
	Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.								N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		n Stages	Status
						D	C	0	
Noise Impact									
\$3.4.1.1	The use of quieter plant, including Quality Powered Mechanical Equipment (QPME) is specified for the list of equipment: - Concrete lorry mixer - Dump Truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne - Generator, Super Silenced, 70 dB(A) at 7m - Poker, vibratory, Hand-held (electric) - Water Pump, Submersible (Electric) - Mobile Crane - KOBELCO CKS900 - Excavator, wheeled/tracked - HYUNDAI R80CR-9	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		^
	- Excavator, wheeled/fracked - HTUNDALK80CK-9								
\$3.4.1.1	Use of temporary or fixed noise barriers with a surface density of at least 10kg/m ² to screen noise from movable and stationary plant.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		^
\$3.4.1.1	Use of enclosures with covers at top and three sides and a surface density of at least 10kg/m ² to screen noise from generally static noisy plant such as air compressors.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		N/A(1)
\$3.4.1.1	Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		٨
\$3.4.1.1	Proper fitting of silencers and mufflers on the ventilation fans.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)
\$3.4.1.1	Implementation of good site practice: Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period;	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		^
	Mobile plant, if any, should be sited as far from NSRs as possible;								٨
	Plant known to emit noise strongly in one direction should, wherever possible, be properly orientated so that the noise is directed away from the nearby NSRs;								^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	0	
	Use of site hoarding as a noise barrier to screen noise at low level NSRs;								٨
	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum; and	•							۸
	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities.	•							٨
	The advancing speed of the TBM should be restricted to 2m/hr in order to ensure compliance with the daytime ground-borne noise limits.								N/A
Water Quality									
S4.2.1.1	In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures shall include the following: Surface run-off from the construction site, including all Works Areas, will be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. At the establishment of works sites and works areas including the barging point, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to divert the storm water to the silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction and the catch-pits and perimeter channels would be constructed in advance of site formation works and earthworks;	To control water quality impact from construction site runoff and general construction activities	All works sites	Contractor and Sub- contractors	Water Pollution Control Ordinance / ProPECC PN 1/94		Y		^
	Dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas and Works Areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap;								^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	0	
	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The sizes may vary depending upon the flow rate, but for a flow rate of $0.1 \text{m}^3/\text{s}$, a sedimentation basin of 30m^3 would be required and for a flow rate of $0.5\text{m}^3/\text{s}$ the basin would be 150m^3 . All effluent discharged from the construction site should comply with the standards stipulated in the TM-DSS. The detailed design of the sand/silt traps shall be undertaken by the Contractor prior to the commencement of construction;								N/A(1)
	In accordance with ProPECC PN 1/94, the construction works should be programmed to minimise surface excavation works during rainy seasons (April to September), as far as practicable. All exposed earth areas should be completed and vegetated as soon as possible after the 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;								٨
	The overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of inclement weather and the reduction of surface sheet flows;								٨
	All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and grits should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;								۸
	Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;								Λ

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	Implementation Stages	
						D	С	0	
	Open stockpiles of construction materials (for example, aggregates, sand and fill material) 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;								^
	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;								۸
	Precautions to be taken at any time of the year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted and 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;								N/A(1)
	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 sited wheel washing facilities should be provided at the exit of every construction site where practicable. Wash- water 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 wheel-washing bay to public roads should be paved with sufficient backfall toward the wheel- washing bay to prevent vehicle tracking of soil and silty water to public roads and drains;								^
	Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources, specifically Works Areas WA1, WA2, WA4 and WA5 where plant maintenance is proposed. Oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain;								N/A(1)
	The construction solid waste, debris and rubbish on-site should be collected, handled and disposed of properly to avoid causing any water quality impacts. The requirements for solid waste management are detailed in Section 11 Waste Management of this EIA report; and								*
	All fuel tanks and storage areas should be provided with locks and sited 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 nearby WSRs.								۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		n Stages	Status
						D	С	0	
\$4.2.1.1 and 4.3.1.5	There is a need to apply to the EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Minimum distances of 100m should be maintained between the discharge points of construction site effluent and the existing seawater intakes. The beneficial uses of the treated effluent for other on- site activities such as dust suppression, wheel washing and general cleaning etc, can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license	To control water quality impact from effluent discharge from construction site	All works sites	Contractor and Sub- contractors	Water Pollution Control Ordinance		Y		N/A(1)
\$4.2.1.1	Specific mitigation measures for the tunnelling works using TBM, soft ground and mechanical excavation techniques should include the following: The cut-and-cover tunnelling works should be conducted sequentially as far as practicable to limit the amount of construction wastewater generated from the exposed areas during the wet season (April to September);	To minimize construction water quality impact from tunnelling and excavation works	All tunnelling and excavation portion	Contractor and Sub- contractors	TMEIA TMwater ProPECC PN 1/94 WPCO		Y		N/A
	Uncontaminated discharge should pass through settlement tanks prior to discharge; If contaminated groundwater is found during the course of the works, no direct discharge of groundwater from contaminated areas should be adopted. Any contaminated groundwater should be properly treated in compliance with the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit should deploy suitable treatment processes (e.g. oil interceptor/activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited	-							N/A N/A
	If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS;								N/A

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	0	
	The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor;								N/A
	The wastewater with high concentrations of SS should be treated such as by settlement in tanks with sufficient retention time before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater.								N/A
\$4.2.1.1	In order to prevent any accidental release of bentonite slurry from getting into the surrounding environment, the following specific control measures shall be followed to reduce the risk and impacts of accidental spillage: All bentonite slurry should be stored in a container that resistant to corrosion,	To control water quality impact from bentonite slurry	All relevant works sites	Contractor and Sub- contractors	WPCO		Y		٨
	maintained in good conditions and securely closed; The container should be labelled in English and Chinese and note that the container is for storage of bentonite slurry only; The storage container should be placed on an area of impermeable flooring and bunded with capacity to accommodate 110% of the volume of the container size or 20% by volume stored in the area and enclosed with at least 3 sides;								^ N/A(1)
	The storage container should be sufficiently covered to prevent rainfall entering the container or bunded area (water collected within the bund must be tested and disposed of as chemical waste, if necessary);								^
	An emergency clean up kit shall be readily available where bentonite fluid will be stored or used; and								N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n Stages	Status
						D	С	0	
	The handling and disposal of bentonite slurries should be undertaken in accordance within ProPECC PN 1/94. Surplus bentonite slurries used in construction works shall be reconditioned and reused wherever practicable. Residual bentonite slurry shall be disposed of from the site as soon as possible as stipulated in Clause 8.56 of the General Specification for Civil Engineering Works. The Contractor should explore alternative disposal outlets for the residual bentonite slurry (dewatered bentonite slurry to be disposed to a public filling area) and disposal at landfill should be the last resort.								N/A(1)
	The proposed barging point at South Apron will not involve marine works like dredging or modifying the submerged portion of the existing seawall. As such, no direct adverse water quality impacts are anticipated during its construction or operation. However, mitigation measures as outlined above should be applied to minimise water quality impacts from site run-off and temporary open stockpiles of spoil at the proposed barging point, where appropriate. Other good site practices include: All vessels should be sized so that adequate clearance is maintained between	To minimize construction water quality impact from barging point	Barging Point	Contractor and Sub- contractors	EIAO-TM WPCO		Y		N/A(1)
	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;								٨
	Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site; and								N/A(1)
	Loading of barges and hoppers should be controlled to prevent splashing of 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.								N/A
\$4.2.1.1	If chemical toilets and sewage holding tanks are required for handling sewage generated by the construction workforce, a licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize construction water quality impact from sewage and effluent	All works sites	Contractor	WPCO		Y		۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	Status	
						D	С	0	
S4.2.1.1	In order to protect against impacts to the surrounding marine waters of the KTTS and Victoria Harbour in the event of an accidental spillage of fuel or oil, the Contractor will be required to prepare a spill response plan to the satisfaction of AFCD, EPD, FSD, Police, TD and WSD to define procedures for the control, containment and clean-up of any spillage that could occur on the construction site.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
\$4.2.1.1	The Contractor must, also, 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.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	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.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	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:	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		*
	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								N/A(1)
	Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.								۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	. 0			Status
						D	С	0	
S4.2.1.1	The road drainage in the tunnel should pass through oil interceptors to remove oil, and grease before being discharged into the public storm water drainage system;	To mitigate runoff from tunnel during the operational phase	Tunnel	CEDD	WPCO			Y	N/A
	Silt traps and oil interceptors should be cleaned and maintained regularly; and								N/A
	The oily contents of oil interceptors should be transferred to an appropriate disposal facility, or to be collected for reuse, if possible.								N/A
Marine Ecology									
\$5.3.1.1	Good construction practice measures have been recommended to be implemented as follows: Avoid damage and disturbance to the remaining and surrounding natural habitat;	Minimize waste generation during construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3		Y		N/A(1)
	Placement of equipment in designated areas within the existing disturbed land;							-	N/A(1)
	Spoil heaps should be covered at all times;	•						-	N/A(1)
	Construction activities should be restricted to the designated works areas; and								N/A(1)
	Disturbed areas to be reinstated immediately after completion of the works.	1							N/A(1)
Fisheries		1	1	1	1	-	-	T	
\$6.2.1.2	No fisheries specific mitigation measures.								

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	Implementation Stages		Status
						D	С	0	
Landscape and V	Visual						<u> </u>		
\$7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		۸
\$7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		N/A
\$7.2.1.2	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	To prevent unnecessary dust and dirt contaminating the air and adjacent areas.	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
\$7.2.1.2	Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.	To mitigate potential visually obtrusive areas	All relevant works sites	CEDD's Contractor	EIAO TM		Y		٨
\$7.2.1.2	Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.	To mitigate and screen any potential visually obtrusive areas and enhance urban environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		۸
\$7.2.1.2	All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.	To mitigate light pollution and adverse visual impacts on surrounding environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
\$7.2.1.2	Compensatory tree planting shall be incorporated along all roadside amenity areas affected by the construction works. The required numbers and locations of compensatory trees shall be determined and agreed with the Government during Tree Removal Application process under ETWB TCW No. 3/2006.	To reinstate and maximise compensatory tree numbers to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Recommended Measures & Main	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	Status	
						D	С	0	
\$7.2.1.2	Compensatory tree planting shall be incorporated by the Project. The required numbers of compensatory trees shall follow the requirements of ETWB TCW No. 3/2006. Loss of amenity area adjacent to the Kwun Tong By-pass and planting areas in KTD South Apron will be mitigated by the creation of the Kai Tak South Apron: Amenity Area, which will be equal to or larger than the current provision.	To reinstate and maximise compensatory tree	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)
\$7.2.1.2	Trees and shrubs and climbers etc. shall be planted to soften and screen proposed roads, central strip and associated structure, and to enhance streetscape greening effect where appropriate.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	All works area, excavated area and disturbed area for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments.	To reinstate and maximise hard and soft landscape areas to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	Tunnel portals and all above ground structures shall be sensitively designed to ensure the element with colour, texture and tonal quality being compatible to the existing urban context. Trees and shrub planting to minimize the potential adverse landscape and visual impacts shall be included where space permits. Roof top greening and vertical greening shall also be provided.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
Cultural Heritag	e	•			•			I	
S8.2.1.1 and 8.2.1.2	No culture heritage specific mitigation measures								

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	Implementation Stage		Implementation Stages		Status
						D	С	0			
Waste Managem	lent Implication										
\$9.2.1.2	The requirements as stipulated in the ETWB TC(W) No.19/2005 Environmental Management on Construction Sites and the other relevant guidelines should be included in the Particular Specification for the future contractor as appropriate.	To keep trace of the generation, minimization, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A		
\$9.2.1.2	The future contractor should be requested to submit an outline Waste Management Plan (WMP) prior to the commencement of construction work, in accordance with the ETWB TC(W) No.19/2005 so as to provide an overall framework of waste management and reduction. The WMP should include: - Waste management policy; - Record of generated waste; - Waste reduction target; - Waste reduction programme; - Role and responsibility of waste management team; - Benefit of waste management; - Analysis of waste materials; - Reuse, recycling and disposal plans; - Transportation process of waste products; and - Monitoring and action plan.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)		
\$9.2.1.2	The waste management hierarchy should be strictly followed. This hierarchy should be adopted to evaluate the waste management options in order to maximise the extent of waste reduction and cost reduction. The records of quantities of waste generated, recycled and disposed (locations) should be properly documented.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)		
\$9.2.1.2	A trip-ticket system should be established in accordance with DevB TC(W) No. 6/2010 and Waste Disposal (Charges for Disposal of Construction Waste) Regulation to monitor the disposal of public fill and solid wastes at public filling facilities and landfills, and to control fly-tipping. A trip-ticket system would be included as one of the contractual requirements for the future contractor to strictly implement. The Engineer would also regularly audit the effectiveness of the system.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)		

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		nplementation Stages St	
						D	С	0	
\$9.2.1.2	A recording system for the amount of waste generated, recycled and disposed (locations) should be established. The future contractor should also provide proper training to workers regarding the appropriate concepts of site cleanliness and waste management procedures, e.g. waste reduction, reuse and recycling all the time.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	The CEDD should be timely notified of the estimated spoil volumes to be generated and the PFC should be notified and agreement sort on the disposal of surplus inert C&D materials e.g. good quality rock during detailed design of the Trunk Road T2 Project. Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and to ensure acceptability at public filling areas or reclamation sites.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
\$9.2.1.2	Inert C&D materials from road pavement would be reused for backfilling where possible	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
\$9.2.1.2	TBM generated alluvium and other C&D materials should be treated at a slurry treatment plant prior to transferring to Public Fill Reception Facilities.	To minimize, reuse and disposal of C&D materials	TMB works area / during TBM works	Contractor	DevB TC(W) No.6/2010		Y		۸
\$9.2.1.2	The site and surroundings should be kept tidy and litter free.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	nended 5 & Main	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	Status	
						D	С	0	
\$9.2.1.2	No waste is allowed to be burnt on site.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
\$9.2.1.2	Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate.	To implement good site practice for handling, sorting reuse and recycling of wastes	Detailed Design	Design Consultant	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010	Y			N/A(1)
\$9.2.1.2	Prohibit the future contractor to dispose of C&D materials at any sensitive locations e.g. natural habitat, etc. The future contractor should propose the final disposal sites in the WMP for approval before implementation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	Stockpiled C&D materials should be covered by tarpaulin and/or watered as appropriate to prevent windblown dust and surface run off.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
\$9.2.1.2	Excavated C&D materials in trucks should be covered by tarpaulins to reduce the potential for spillage and dust generation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
\$9.2.1.2	Wheel washing facilities should be used by all trucks leaving the site to prevent transferring mud trails onto public roads.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
S9.2.1.2	Excavated marine deposit (sediment) should be disposed of in a gazetted marine disposal ground under the requirements of the DASO or treated for backfilling.	To ensure proper disposal of marine sediment	All areas / throughout construction period	Contractor	ETWB TC(W) No.34/2002		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	С	0	
\$9.2.1.2	Standard formwork or pre-fabrication should be used as far as practicable to minimise the C&D materials arising. The use of more durable formwork or plastic facing for construction works should also be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should be carefully planned in order to avoid over-ordering and wastage.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	The future contractor should recycle as many C&D materials as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
\$9.2.1.2	All falsework should be steel instead of wood as far as practicable.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	С	0	
\$9.2.1.2	Chemical waste producers should register with the EPD and chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: - Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; - Having a capacity of <450L unless the specifications have been approved by the EPD; and - Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. - Clearly labelled and used solely for the storage of chemical wastes; - Enclosed with at least 3 sides; - Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; - Adequate ventilation; - Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and - Incompatible materials are adequately separated.	chemical waste within works sites and works areas	All areas / throughout construction period	Contractor	Code of Practice on the Packaging, Handling and Storage of Chemical Wastes		Y		*
\$9.2.1.2	Waste oils, chemicals or solvents should not be disposed of to drain.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	EIAO TM		Y		۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	0	
\$9.2.1.2	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them. Night soil should be regularly collected by licensed collectors.	To ensure proper disposal of sewage sludge	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins should be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By- laws. In addition, general refuse should be cleared daily and disposed of to the nearest licensed landfill. Burning of refuse on construction sites is prohibited.	To separate the general refuse from other waste types and proper disposal of the refuse	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		۸
\$9.2.1.2	All waste containers should be in a secure area on hardstanding.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		^
\$9.2.1.2	Aluminium cans should be collected and recovered from the waste stream by reputable collectors if they are segregated and easily accessible. Separately labelled bins for their deposition should be provided as far as practicable.	To implement on-site sorting facilitating reuse and recycling of materials as well as proper disposal of waste	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
\$9.2.1.2	future contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	To separate the general refuse from other waste types and proper disposal of the refuse	Site Offices / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementati		n Stages	Status
						D	С	0	
\$9.2.1.2	Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	To implement good site practice for handling, sorting reuse and recycling of wastes	Contract Mobilisation	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
\$9.2.1.2	During construction phase, regular site inspections and supervision of the waste management procedures shall be undertaken as part of the EM&A procedures.	• •	All areas / throughout construction period	Contractor	EIAO TM		Y		^

Remarks: EM	Remarks: EM&A Programme under EP-451/2013							
D	Design							
С	Construction							
Y	Yes							
0	Operation							
^	Compliance of mitigation measure;							
N/A	Not applicable at this stage;							
N/A(1)	Not observed;							
*	Recommendation was made during site audit but improved/retified by the contractor;							
#	Recommendation was made during site audit but not yet improved/retified by the contractor;							
Х	Non-compliance of mitigation measure;							
•	Non-compliance but rectified by the contractor.							

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

Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution

Reporting Month: March 2024

Log Ref.	Location	Received Date	Details of Complaint/war ning/summon and prosecution	Investigation/Mitigation Action	Status
-	-	-	-	-	-

Remarks:

No environmental complaint/warning/summon and prosecution were received in the reporting period.

Table L2 Cumulative Log for Environmental Complaint, Warning, Summon and Notification of Success	ssful Prosecution
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Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
#A01	The Launching Shaft	24 June 2020	A complaint regarding dust nuisance possible caused by the construction works at the Launching Shaft area was received.	 Training regarding the loading and unloading height control was provided to the labourers to ensure dusty materials are transported under a minimum practical height. Water sprays system was installed around the location of complaint to prevent dust generated from wind erosion on the stockpile. Contractor was reminded to further enhance the dust mitigation measures to minimize the dust nuisance. 	Air	Closed
#N01	The Launching Shaft	03 & 13 July 2020	The verbal complaint regarding the noise nuisance generated from D-wall cutter operation nearby the PWCL	 Noise barrier was erected between noise source and the PWCL building. Construction programme was reviewed as to minimize operation of PME nearby the PWCL building Contractor was recommended to implement the noise mitigation measures and other good site practices to minimize the noise nuisance. 	Noise	Closed

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
			building was received by CEDD			
#N03	The Launching Shaft	03 December 2020	A verbal complaint regarding the noise nuisance, generated from the construction works nearby PWCL building, was received by CEDD.	 Contractor has taken the remedial action (i.e. Some of the breakers in which were operated nearby the concerned area were wrapped up with the acoustic insulation sheets) and noise mitigation measures (i.e. Noise barrier was installed adjoining the building to minimize the influence of construction noise, maintenance for all Powered Mechanical Equipment was conducted regularly, review on the construction programme to minimize the operations of PMEs near the PWCL) to minimize the noise impact generated from breaking activities. 	Noise	Closed
#N10	Launching Shaft and Barging Point	28 February 2023	A Complaint of Noise Nuisance caused by the nighttime construction	 The cause of the noise nuisance may cause by the operation of Derrick Barge and the Conveyors. No limit level exceedance was recorded for additional noise monitoring and the weekly construction noise monitoring. 	Noise	Closed

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
			activities was received.	 In addition, the Contractor shall review the construction schedule, priorities the work sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semi-enclosure/noise barrier and provide regularly maintenance for PMEs. 		
		7 March 2023	Follow up complaint from the same complainant was received and he/she informed that the construction noise nuisance at 09:50pm.	 The cause of the noise nuisance may cause by the operation of Derrick Barge and the Conveyors. No limit level exceedance was recorded for additional noise monitoring and the weekly construction noise monitoring. In addition, the Contractor shall review the construction schedule, priorities the work sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semi-enclosure/noise barrier and provide regularly maintenance for PMEs. 	Noise	Closed

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
#W01	Launching Shaft and Barging Point	13 March 2023	A complaint regarding to the silt/dirt being swept into the sea from the operation of barge under Trunk Road T2.	 There is no direct evidence that the Silt/ Dirt being swept into the sea from the barge of T2. The following recommendations are made to further enhance the mitigation measures: Provide regular training to site personnel on proper waste management and appropriate handling procedures. Provide sufficient waste disposal points and regular collection for disposal. Closely monitor the barge operation. The Contractor has implemented the above environmental mitigation measures (As mentioned in Section 2.6) on site to ensure that no silt and household waste being swept into any water body. 	Water	Closed
#N12	Launching Shaft Area, Barging Point, Cheung Yip Street	17 November 2023	A verbal complaint regarding the noise nuisance, generated from the	 The cleaning work using the water jetting unit may be the cause of noise nuisance. No limit level exceedance was recorded for additional noise monitoring and the weekly construction noise monitoring. In addition, the Contractor shall review the construction schedule, priorities the work 	Noise	Closed

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Appendix L – Summary	y ul chivil unnental (complaint, wai min	g, summon and nouncauo	n of successful prosecution

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
			construction works near Cheung Yip Street after 21:00.	sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semi- enclosure/noise barrier and provide regularly maintenance for PMEs.		
#W02	Launching Shaft Area	22 November 2023	A complaint regarding to the number of fish die-off at the Kwun Tong Typhoon Shelter.	 There is no direct evidence that the dead fish floating near the Kwun Tong Pier were caused by the construction activities. The following recommendations are made to contractor to further enhance the mitigation measures: 1) Conduct regular maintenance for wastewater treatment facilities to maintain the quality of effluent. 2) Conduct regular water quality monitoring 3) Carry out regular visual inspection to the Kai Tak Approach Channel (near the outfall of discharge point) to prevent illegal discharge of untreated water. 	Water	Closed

APPENDIX M SUMMARY OF EXCEEDANCE

Appendix M – Summary of Exceedance

Reporting Month: March 2024

(A) Exceedance Report for Air Quality

One (1) Action Level and No Limit Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

Monitoring Station	Start Date	Conc. $(\mu g/m^3)$	Level exceeded
CKL2	13 March 2024	205.3	Action Level

(B) Exceedance Report for Construction Noise

Action Level for Construction Noise

No Action Level exceedance was recorded due to no documented complaint received in this reporting month.

Limit Level for Construction Noise

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

(C) Summary of Landscape and Visual Non-Conformity (NIL in the reporting month)

- Notification of Exceedances

NOE No. 240313_24hrTSP (CKL2) Exceedance Level: Action

Date of Air Quality Monitoring: <u>13 March 2024</u>

Part A – Exceedance Summary Tables

Table I:Parameter(s) – 24-hour TSP

Station	Location	Starting Time	Weather Condition	Conc. (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)	Level exceeded
CKL2	Flat 103 Cha Kwo Ling Village	09:00	Fine	205.3	183.0	260.0	Action

 Note:
 Bold Italic means Action Level exceedance

 Bold Italic with underline
 means Limit Level exceedance

Part B – Major Source of Parameter Monitored

Field Observation(s) and Finding(s)

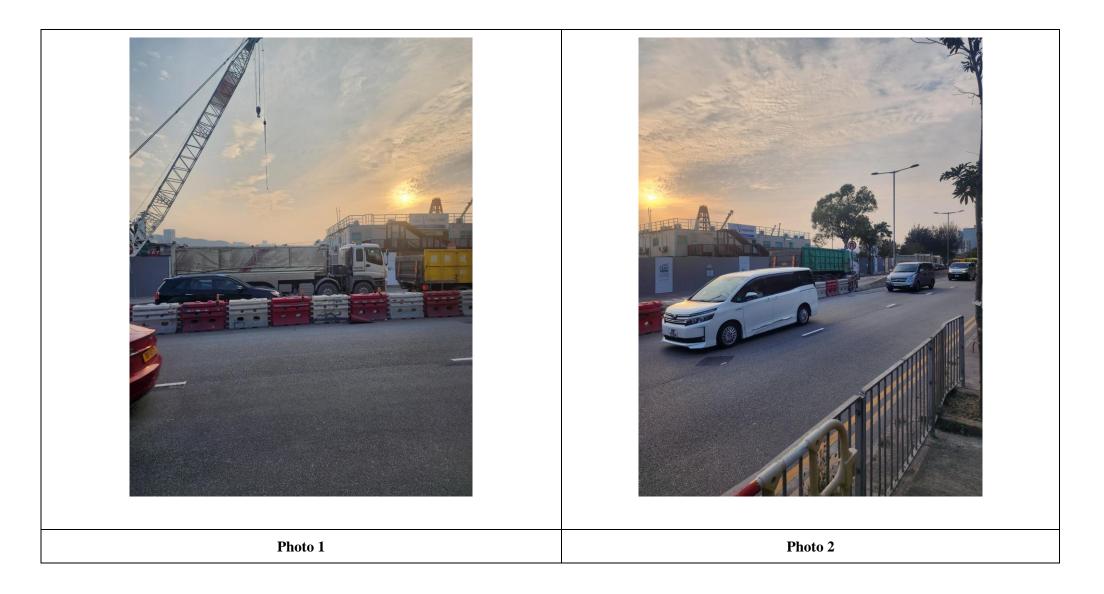
(a)	Statement of exceedance(s)
	24-hour TSP monitoring measured at CKL2 on 13 March 2024 exceeded the action level.
(h)	$C_{\text{auso}} \text{ of } a_{\text{auso}}(s)$

(b) Cause of exceedance(s)

According to the observation of our field staff and the information provided by ER and Contractor, the Investigation result for exceedance identified at CKL2 is/are as follow:

- 1. Fluctuation of road traffic along the Cha Kwo Ling Road, especially the completion of TKOLTT, a numerous of dump trucks from other construction site transport their C&D material through Cha Kwo Ling Road to TKO Area 137 via TKOLTT (Photo 1 & 2).
- 2. Steel work was performed at Portion Q (near CKL1), no dusty activities (i.e Excavation, loading or unloading of C&D material) were performed at this section.

- Notification of Exceedances



- Notification of Exceedances

Part C – Conclusion

Based on the finding(s) and observation(s) above, we deduce the Action Level exceedance of 24-hour TSP recorded at station CKL2 on 13 March 2024 is due to fluctuation of road traffic, therefore, the exceedance is considered as **non-project related**.

Part D – Recommendation

Although the exceedance is considered as non-project related, contractor is reminded that the following construction dust mitigation measures shall always to be implemented on site to reduce/ minimize the generation of dust due to the construction activities.

- 1. Watering of the construction areas 12 times per day to reduce dust emissions.
- 2. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions.
- 3. Open stockpiles shall be avoided or covered.
- 4. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.
- 5. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.
- 6. Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit.
- 7. Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.

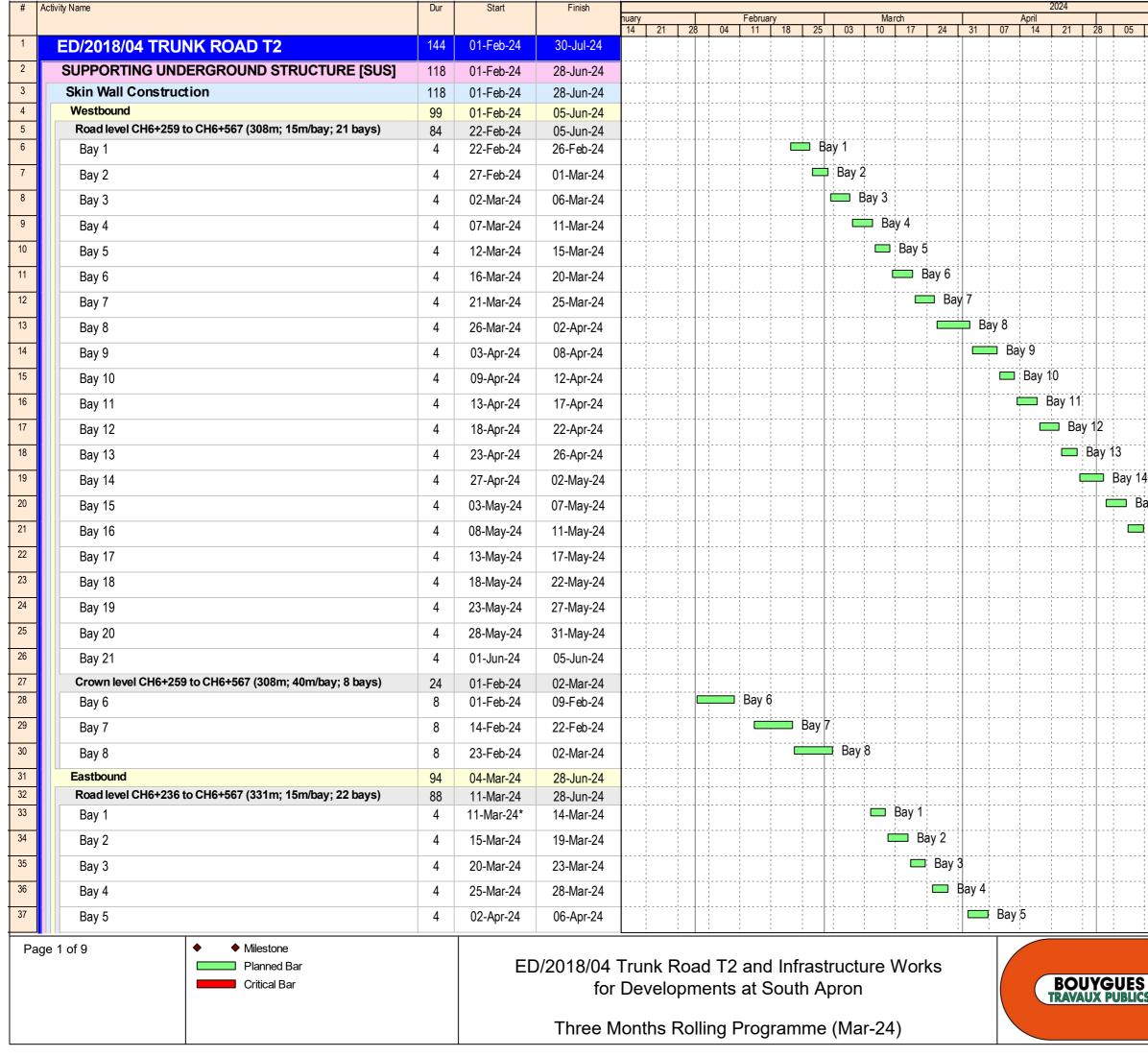
Part E – Follow-up Action Taken

According to the Event and Action Plan of the EM&A Manual of Trunk Road T2 project under EP-451/2013, the follow-up action of this exceedance is/are taken by ET as follow:

- 1. Informed the investigation result to other parties (i.e., IEC and ER).
- 2. ET will always pay attention to the implementation of mitigation measures by Contractor and advise the ER on the effectiveness of such measures.
- 3. A remeasurement was carried out on 20 Mar 2024, no action/limit level exceedance was recorded. The monitoring results is tabulated as below:

Station	Location	Time	Weather Condition	Conc. (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)	Level exceeded
CKL2	Flat 103 Cha Kwo Ling Village	0900 (20 Mar 2024) – 0900 (21 Mar 2024)	Cloudy	157.8	183.0	260.0	N/A

APPENDIX N TENTATIVE CONSTRUCTION PROGRAMME



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Date Revision C	hecked Approved	
31-Jan-24 Rev. A SPa		
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Appendix	кА	

#	Activity Name	Dur	Start	Finish	nuary				Februa	TV.			Ма	rch				Z April	024			
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38	Bay 6	4	08-Apr-24	11-Apr-24				· · ·					: : : :	: : : :				Bay 6				: : : :
39	Bay 7	4	12-Apr-24	16-Apr-24				: : : :				:	: : : :	: : : :	:				iy 7		:	
40	Bay 8	4	17-Apr-24	20-Apr-24				* 2 2 2						* 5 5 5					Bay 8	3		- - - -
41	Bay 9	4	22-Apr-24	25-Apr-24									1 1 1 1				1		E	Bay 9		
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45	Bay 2	4	11-May-24	16-May-24																		·
46	Bay 3	4	17-May-24	21-May-24																		
47	Bay 4	4	22-May-24	25-May-24				 	+				: : : : :									· - + ·
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51	Bay 8	4	11-Jun-24	14-Jun-24									: 									
52	Bay 9	4	15-Jun-24	19-Jun-24					•				: :								 	
53	Bay 10	4	20-Jun-24	24-Jun-24									: 	: 								
54	Bay 11	4	25-Jun-24	28-Jun-24				; ; ; ; ;					: 	; ; ; ; ;								· - 4
55	Crown level CH6+236 to CH6+567 (331m; 40m/bay; 9 bays)	72	04-Mar-24	01-Jun-24																		
56	Bay 1	8	04-Mar-24	12-Mar-24				 					🗖 B	ay 1							 	· - +
57	Bay 2	8	13-Mar-24	21-Mar-24											Bay 2							
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59	Bay 4	8	05-Apr-24	13-Apr-24									: : : :	: : :				Bay 4	1			· - + ·
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62	Bay 7	8	04-May-24	13-May-24									: 									
63	Bay 8	8	14-May-24	23-May-24									: : :	; ; ; ; ;			1					
64	Bay 9	8	24-May-24	01-Jun-24																		·
65	WEST VENTILATION BUILDING [WVB]	143	01-Feb-24	30-Jul-24				: ; ,					: : : :	: ; ; ;	:						, , , , ,	
66	WVB Construction	134	16-Feb-24	30-Jul-24					*													· - +
67	E&M	84	16-Feb-24	30-May-24																		
68	WVB - E&M works (1/F)	84	16-Feb-24*	30-May-24							}⊧ ; ⊺			¦	 							· - 1 1
69	External Works / EVA	132	19-Feb-24	30-Jul-24					+				: ! : :	: : :							 	· - + ·
70	UU works and Backfilling	36	19-Feb-24	03-Apr-24				 	+		• - ;		: :			<u> </u>	IU wor	ks and	Backf	filling	 : : :	· - + ·
71	Access Road Construction	36	05-Apr-24	18-May-24																	<u>.</u>	·
72	Fire Hydrants confirmation from FSD for FSI inspection	0	-	01-Jun-24									: ! : :	: 	:						, , , ,	4
73	EVA Construction	24	20-May-24	17-Jun-24									1 1 1 1 1	- 							 	-
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Page 2 of 9

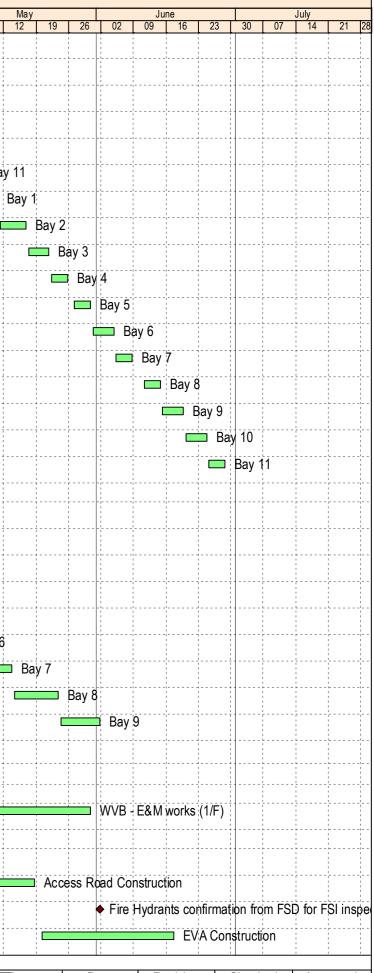
MilestonePlanned Bar

Critical Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme (Mar-24)



Date	Revision	Checked	Approved
31-Jan-24	Rev. A	SPa	

#	Activity Name	Dur	Start	Finish											2024						
					nuary 14	21	28	04	Febru 11	Jary	8 25	03	Mai 10	rch 17	24	31	07	April 14	21	28	05
74	Available CKR access for FSD inspection	36	18-Jun-24	30-Jul-24		1			1	-			-	- 				1 1 1 1	-	-	
75	Essential Criteria for FSI	106	01-Feb-24	15-Jun-24																	
76	Power Engerization	90	05-Feb-24	30-May-24																; 	
77	CLP Final Inspection / CLP Tx Rm - Handover to CLP	0		05-Feb-24				◆ UL					Tx Rm	:	aover			· · ·		: : :	· · · · · · · · · · · · · · · · · · ·
78	CLP Mobilization	45	06-Feb-24	05-Apr-24										1			CLP	Mobili	zation		
79	CLP Installation	45	06-Apr-24	30-May-24		-			- 	-		-		5 5 5 5			1	1		1	
80	CLP Tx Rm - Power On	0		30-May-24										1 1 1 1				1 1 1 1 1		· · · · · · · · · · · · · · · · · · ·	
81	Dangerous Goods Licenses	84	01-Mar-24	15-Jun-24					•			1		4 · · · · · · · · · · · ·	4 + + 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		•			· · · · · · · · · · · · · · · · · · ·	
82	WVB - Genset & Oil Tank delivery on site	0		01-Mar-24		1 1 1 1			5 5 5 5	: : :	8 8 8	♦ WVE	3 - Gen	set & (Dil Tan	k deliv	ery or	n site		: : :	8 8 8 8 8 8 8 8
83	WVB - Genset & Oil Tank Installation and T&C	48	02-Mar-24	02-May-24				 - - -										:			WVB - C
84	Receipt of report of compliance	0		10-May-24				 						3 1 1 1	J		L	L		*	♦F
85	Submission of Application	7	03-May-24	10-May-24																	
86	DG Licenses Inspection (Vent) by FSD	0		20-May-24					+		· · · · · · · · · · · · · · · · · · ·			1 1 1 1 1 1							
87	DG Licenses Inspection (Layout) by FSD	0		07-Jun-24					*					4			• • • • • • • • •				
88	Issuance of Certificate from FSD	0		15-Jun-24					÷												
89	Fireman Lift	87	06-Feb-24	27-May-24										· /							
90	Lift Installation (by OTIS)	51	06-Feb-24	12-Apr-24					1	1				; ;			L	Lift Ir	nstallat	on (by	(OTIS)
91	T&C (by OTIS) & Issue WR1 / Submisison of LE5	24	13-Apr-24	11-May-24													[· · · · · · · · · · · ·	
92	EMSD Inspection	12	13-May-24	27-May-24																	ſ
93	Issuance of Permit by EMSD	0		27-May-24					*					4	+ + + 						
94	Water Supply	106	01-Feb-24	15-Jun-24					+												
95	FS Water (Inside WVB)	106	01-Feb-24	15-Jun-24										; · · · · · · · · · · · ·							
96	Submission WW046 part 1	0		01-Feb-24			•	Subm	ission	ı WM	'046 pa	rt 1									
97	Submission of WW046 Part IV for FS Water	0		30-Apr-24		1		1		1				1				1	1	♦ Si	ubmissio
98	Inspection for FS Water & Issuance of WW046 part V (a) by WSD	12	17-May-24	30-May-24										,							
99	Pipe Sterilization & Water Sampling	6	31-May-24	06-Jun-24					 - - -					 - - -				 - - -			
100	Water Sample Testing	3	07-Jun-24	11-Jun-24					*					4 · · · · · · · · · · · · ·			•	 			
101	Issuance of WW046 Part V(b) from WSD	0		11-Jun-24		;															
102	Issuance of WWO1005 Certificate for FS Water from WSD	0		15-Jun-24				 	 					/	JA		L	L		·	
103	Connect pipe insde WVB to Master Meter Cabinet	4	12-Jun-24	15-Jun-24													 - - -				
104	FS Lead-in Watermain	31	15-Apr-24	23-May-24					+								L 	L			
105	Submission WW046 Part IV for water connection	0		15-Apr-24										 				St	ıbmiss	ion W	N046 Pa
106	Inspection for FS Lead-in watermain & issuance of WW046 part V	12	27-Apr-24	11-May-24					•		· · · · · · · · · · · · · · · · · · ·			4 				I		1	
107	Pipe Sterilization & Water Sampling	6	13-May-24	20-May-24					 		·						 ; ; ;				[
108	Issuance of WW046 Part V(b) from WSD	0		23-May-24				J	4	- L	· L			J	J 		L	· · · · · · · · · · · · · · · · · · ·		·	
109	Water Sample Testing	3	21-May-24	23-May-24										1						1 1 1 1	
110	Final T&C and FSI Inspection	50	31-May-24	30-Jul-24					+					: : : :			L				
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Page 3 of 9

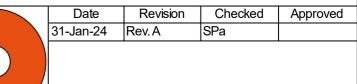
MilestonePlanned BarCritical Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme (Mar-24)

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Part IV	for wa	ter co	nnecti	on	 			: 1 : :		: !	
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#	Activity Name	Dur	Start	Finish											_)24		
					nuary 14	21 2	28	F 04	ebruary	18 25	03		Narch 17	24	31	A 07	April 14	21	28	05
111	Submit Application Form (FS501)	0		17-Jun-24		- 														
112	WVB - Overall T&C	26	31-May-24	02-Jul-24																
113	FSI Acceptance Inspection	24	03-Jul-24	30-Jul-24																
114	Issuance of FS Certificate	0		30-Jul-24						·					+ +					
115	LAUNCHING SHAFT	98	16-Feb-24	17-Jun-24								!								
116	Cell 1 & 2	32	09-May-24	17-Jun-24		·				·										
117	OHVD & Top Slab	32	09-May-24	17-Jun-24																
118	Waterproofing + Backfilling stage 1 (-10.5 mPD)	32	09-May-24	17-Jun-24																
119	Cut & Cover	96	16-Feb-24	14-Jun-24																
120	Roof Slab formworks	12	16-Feb-24	29-Feb-24						· · · · · · · · · · · · · · · · · · ·	Roo	f Slab	formwo	orks						
121	Trimming Roof Slab	24	01-Mar-24	28-Mar-24											Trimmi	ng Roo	of Slab			
122	Roof Slab RC	30	02-Apr-24	08-May-24																🗖 Ro
123	Roof Slab formworks dismantling + waterproofing	18	09-May-24	30-May-24		1 				·		!		: 			- 			
124	LSCC Manhole and Gully construction	12	31-May-24	14-Jun-24																
125	Miscellanneous	36	23-Feb-24	09-Apr-24																
126	Mass fill (Bottom Pipe Ladder)	36	23-Feb-24	09-Apr-24												🗖 Ma	ass fill	Botton	Pipe	Ladder
127	TBM TUNNELLING	133	12-Feb-24	26-Jul-24						·			J					· · · · · · ·		
128	S1282 Eastbound	126	12-Feb-24	18-Jul-24																
129	CKL Seawall removal	151	12-Feb-24	11-Jul-24																
130	Bay 1-3a seawall and spoil removal	108	12-Feb-24	29-May-24											; -					
131	Bay 3b-4 seawall and spoil removal	43	30-May-24	11-Jul-24									·							
132	Utilities Relocation	102	06-Mar-24	11-Jul-24																
133	EB Tunnel Slurry pipe relocation up to CP11 @ 1CP / week	30	06-Mar-24*	13-Apr-24											; ; ; ;		EB T	Innel S	lurry p	oipe relo
134	EB Tunnel Slurry pipe relocation up to CP16 @ 1CP / week	30	15-Apr-24	21-May-24						·										
135	EB Tunnel Slurry pipe relocation up to CP21 @ 1CP / week	42	22-May-24	11-Jul-24																
136	TBM Excavation	65	15-May-24	18-Jul-24																
137	15 May 24 EB TBM re-start CH8632 R0900	0	15-May-24	10-501-24																
138	CH 8632-8661 R0913 - Rock excavation 28.6m @ 1.4m/d	20	15-May-24	03-Jun-24																
139	CH 8661-8687 R0925 - Rock excavation 26.4m @ 1.4m/d	19	30-Jun-24	18-Jul-24																
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140 141	S1281 Westbound	119	30-Mar-24	26-Jul-24						·			·		30 M	ar 24 W		∕l re_st	art CH	18612 R
	30 Mar 24 WB TBM re-start CH8612 R0891	0	30-Mar-24	00.1.1.0/												ы <u>2</u> -т у		vi i c-3(
142	CH 8612-8778 R0966 - Rock excavation 166m @ 1.4m/d	119	30-Mar-24	26-Jul-24																
143	SUB-SEA TUNNEL CROSS PASSAGE [CP]	28	18-May-24	20-Jun-24	_					·										1
144 145	Tympanum Civil Works Westbound	28	18-May-24	20-Jun-24	.								: : : :							: : : : :
145	CP25 - WB - Tympanum Civil works CH8499	28 28	18-May-24 18-May-24	20-Jun-24 20-Jun-24																+
147	INTERNAL STRUCTURES		-							·										
147		79	11-Apr-24	17-Jul-24						·					+					
140	Service Gallery B Eastbound	65 4	11-Apr-24 03-Jul-24	08-Jul-24 08-Jul-24																
	age 4 of 9 Age 4 of 9 Planned Bar Critical Bar			D/2018/04	Dev	velopr	nen	its a	at So	outh A	pro	n		rks	<u> </u>			BOU	YGI X PU	JES IBLICS
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# A	tivity Name	Dur	Start	Finish	nuary				Februa					larch					April	2024			
150	EB ISIG re-start at SG0820E	0	03-Jul-24		14	21	28	04	11	18	25	03	10	17	7 2	4	31	07	14	21	28	05	-
151	EB SG850 completion for CP2.2 installation	0	08-Jul-24																		·		
152	Westbound	0	11-Apr-24	11-Apr-24																			
152	WB ISIG re-start at SG0808W	0	11-Apr-24	11-Apr-24					-									♦ \	VB ISI	G re-st	art at	SG08	808
154	Corbel	67	25-Apr-24	17-Jul-24																	·		
155	Eastbound	07	25-Api-24 17-Jul-24	17-Jul-24 17-Jul-24														; ;		·	·		
156	EB Corbel re-start	0	17-Jul-24	IT-JUI-Z-F														;					- +
157	Westbound	0	25-Apr-24	25-Apr-24																			
158	WB Corbel re-start	0	25-Apr-24	20710124																♦ W	VB Co	rbel i	re-st
159	Thermal Barrier	76	15-Apr-24	16-Jul-24																			
160	Road Level	76	15-Apr-24	16-Jul-24																	·		
161	Eastbound	76	15-Apr-24	16-Jul-24																			
162	NCPS	76	15-Apr-24	16-Jul-24					- -	; ;									· <u></u>				
163	EB NCP Fire Board up to CP11 @ 13.2m/d	38	15-Apr-24	30-May-24								:											
164	EB NCP Fire Board up to CP16 @ 13.2m/d	38	31-May-24	16-Jul-24		1				1					1			1					
165	CKL Pilot Tunnel	96	15-Feb-24	13-Jun-24														?					
166	Westbound	96	15-Feb-24	13-Jun-24																	·		
167	WB Pilot TBM bulkhead construction 1st bulkhead + water filling	48	15-Feb-24*	15-Apr-24						:	;	:		:	:				■ WE	8 Pilot 1	TBM b	oulkhe	ead
168	WB Pilot TBM bulkhead construction 2nd bulkhead (alap)	48	16-Apr-24	13-Jun-24	1																		
169	CHA KWO LING TUNNEL	143	02-Feb-24	30-Jul-24																			
170	Eastbound	101	25-Mar-24	29-Jul-24																			
171	Type A1/A2 Lining	32	25-Mar-24	06-May-24													L .				· · · · ·		
172	EB Type A1 to C1-C2 fwks adjustment 1st stage	16	25-Mar-24	16-Apr-24						L							L.		🗖 E	3 Туре	A1 to	C1-0	C2 fv
173	EB Type A1 to C1-C2 fwks adjustment 2nd stage	8	26-Apr-24	06-May-24																·····		= E	ВТу
174	Type C Wall & Crown	8	17-Apr-24	25-Apr-24																			
175	EB Type C1 Crown (1 bay 8d/bay)	8	17-Apr-24	25-Apr-24	1															Ē	В Ту	pe C'	1 Cro
176	Type C OHVD	18	09-Jul-24	29-Jul-24																			
177	EB Type C1 & 2 OHVD slab fwks assembly	18	09-Jul-24	29-Jul-24																			
178	Westbound	121	02-Feb-24	04-Jul-24																			
179	Type A2	28	02-Feb-24	08-Mar-24																			
180	WB Type A2 Crown (4 bays @ 4d/bay)	16	02-Feb-24	23-Feb-24			1	1	:	1 1	WB	Туре А	2 Cro	own (4 bays	s@4	d/bay	/)					- +
181	WB Type A2 Crown Fwks dismantling	12	24-Feb-24	08-Mar-24	+						÷		WB	Туре	A2 C	rown	Fwks	s dism	antlin	3			
182	Туре А	93	09-Mar-24	04-Jul-24											· · · ·		· · · · · ·				·		
183	WB Type A1 OHVD Fwk assembly	24	09-Mar-24	10-Apr-24												i		– V	VВТур	e A1 C	OHVD	Fwk	ass
184	WB Type A1 OHVD Slab	45	11-Apr-24	04-Jun-24																	·		
185																							
	WB Type A1 OHVD Slab fwk dismantling	24	05-Jun-24	04-Jul-24						: : : : :													: : : : : :
186 187	CKL Internal Structures Fire Board - Crown (TBC)	123	29-Feb-24	30-Jul-24	 					: : : :	·									·			
187	Branch Tunnnel Fire Board	50 22	29-Feb-24 29-Feb-24*	02-May-24 25-Mar-24	 					: - - :						Bran	ch Tu	innne	Fire E	Board			
189					 					- - 												EB T	Vno
109	EB Type A Fire Board	22	06-Apr-24	02-May-24		1			: : :	- - 	:	: : :	8	8	1 1 1	1	1	1		1			ype
Pag	e 5 of 9 ← Milestone □ Planned Bar □ Critical Bar		EC	0/2018/04 for Three N	Dev	velo	pm	ents	at S	Sout	h A	pron	1		orks				G	BOU	IYG UX PI	UE(UBLN	S

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		31-Ja	n-24	Rev.	A		SP	а				



#	Activity Name	Dur	Start	Finish					Ech	1001			Ma	roh					2024			Ĺ
					nuary 14	21	28	04	Febru 11		25	03	Mai 10	rcn 17	24	31	07	April 14	21	28	05	-
190	Fire Board - Road Level (TBC)	51	30-May-24	30-Jul-24		•		-	• • •	-				• • •								_
191	Branch Tunnnel Fire Board	22	30-May-24*	25-Jun-24									1 1 1 1	 - - -		:						-
192	EB Type A Fire Board	22	04-Jul-24	29-Jul-24										F	J		• • • • • • • • • • • • • • • • • • •	4 5 5 5 5 5 5 5 5 5 5				
193	WB Type A Fire Board	22	05-Jul-24	30-Jul-24																		-
194	Footbridge - FB-03	72	26-Apr-24	23-Jul-24										 	 - 							
195	FT-03 - Bearing Manufacturing	72	26-Apr-24	23-Jul-24										 - - - -				 1 1 1				_
196	EAST VENTILATION BUILDING [EVB]	126	16-Feb-24	20-Jul-24		· · ·			÷								· · · · · · · · · · · · · · · · · · ·					
197	EVB Construction	119	16-Feb-24	12-Jul-24																		
198	Building Structure	84	18-Mar-24	02-Jul-24		· · · · · · · · · · · · · · · · · · ·							1			:		· · · · · · · · · · · · · · · · · · ·				
199	EVB - RC works (G/F Walls & Roof Slab)	84	18-Mar-24	02-Jul-24		1 1 1 1			1 1 1 1			1 1 1 1 1	1					1				
200	ABWF	85	29-Feb-24	14-Jun-24		·								/								
201	EVB - ABWF works (LG3)	12	29-Feb-24	13-Mar-24		5 5 5 5	: : :		: : :				E	VB - I		1	(LG3)					1
202	EVB - ABWF works (LG2)	13	14-Mar-24	28-Mar-24												EVB-	ABWF	works	s (LG2)			
203	EVB - ABWF works (LG1)	60	02-Apr-24	14-Jun-24										· · · · · · · · · · · · · · · · · · ·								_
204	E&M	119	16-Feb-24	12-Jul-24	-				•					«								
205	EVB - E&M works (B)	60	16-Feb-24	30-Apr-24		: : :					:	1	1	1	1	:	:	1		EV	/B - E8	31
206	EVB - E&M works (LG2)	24	02-Apr-24	30-Apr-24		- - - -			+					: : : :			· · · · · · · · ·	1 1 1 1 1		EV	/B - E8	81
207	EVB - E&M works (LG3)	60	14-Mar-24	29-May-24					 					· · · · · · · · · · · · · · · · · · ·				1				_
208	EVB - E&M works (LG1)	60	30-Apr-24	12-Jul-24																		
209	Footbridge FB03	30	25-May-24	29-Jun-24										 								
210	Installation of Structural Frames	30	25-May-24	29-Jun-24									: : :									
211	Essential Criteria for FSI	31	14-Jun-24	20-Jul-24	-				*					4		******		- - - - - - - - - - - - - - - - - - -				
212	Power Engerization	18	14-Jun-24	05-Jul-24										· ·								
213	CLP Rm - ABWF works	18	14-Jun-24	05-Jul-24		5 5 5 5	1 1 1 1	1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	5 5 5 5	1 1 1 1	1 1 1 1 1	1 1 1 1	1 1 1 1	: : :	1 1 1 1		1		
214	Dangerous Goods Licenses	18	29-Jun-24	20-Jul-24					•					*				 				
215	Fuel Tank Room - ABWF works	18	29-Jun-24	20-Jul-24					·			1		 1 1 1	1					1		
216	E&M INSTALLATION	124	28-Feb-24	30-Jul-24					+					: : : :				1 1 1 1				
217	E&M	124	28-Feb-24	30-Jul-24					÷													
218	DPR + SUS (Westbound + Eastbound)	72	30-Apr-24	26-Jul-24					•					, ; ;	 : :	;		 1 1 1				
219	Westbound	48	30-Apr-24	27-Jun-24					· · · · · · · ·			1	1 1 1 1							1		
220	WB CPS E&M Bracket	24	30-Apr-24*	29-May-24		1								1	1	1	1 1 1 1	1				
221	WB NCPS E&M Bracket	24	30-May-24	27-Jun-24					1						1		1	1 1 1 1		1	1	
222	Eastbound	48	30-May-24	26-Jul-24					*									 				
223	EB CPS E&M Bracket	24	30-May-24	27-Jun-24		1				1			1	: : :	1		: : :	1		1		
224	EB NCPS E&M Bracket	24	28-Jun-24	26-Jul-24										 - - - -								
225	1st section CH6703-7109 - (406m) WB CPS & NCPS + EB CPS	118	29-Feb-24	24-Jul-24										,	,					· · · · · · · · · · · · · · · · · · ·		
226	E&M Installation (BYME)	118	29-Feb-24	24-Jul-24			ļ									<u>.</u>						
227	CP side	64	20-Mar-24	08-Jun-24		- 			; 				- - 			; ;						
228	2nd Fixing	64	20-Mar-24	08-Jun-24					-)oble			ما مالح				
229	Cable delivery arrival site	0		20-Mar-24*		- 5 5			-	-		- - 	- 8 8	• (able	penver	y arriva	ai site		1		_

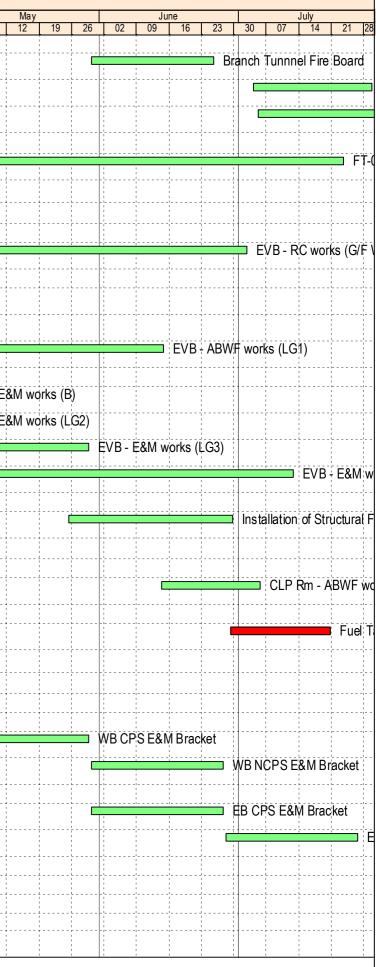
Page 6 of 9

MilestonePlanned Bar

Critical Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Mar-24)



Date	Revision	Checked	Approved
31-Jan-24	Rev. A	SPa	

BOUYGUES TRAVAUX PUBLICS

# Ac	tivity Name	Dur	Start	Finish		-								202	24		
					huary 14 21 2		ebruary 11 18	25	03	March	17 2	4 3	31 07	April 14	21 2	28 05	
230	Cable Laying - CPS	10	20-Mar-24	03-Apr-24									Cable	Laying - (CPS		-
231	Cable Fixing - CPS	24	05-Apr-24	03-May-24												🗖 Cab	ole F
232	Cable Joint works - CPS	20	17-May-24	08-Jun-24													· - +
233	OHVD Soffit	96	20-Mar-24	18-Jul-24									· · · · ·	·			·
234	1st Fixing	34	20-Mar-24	03-Mav-24													· -
235	OHVD Soffit Fire Board completion (BTP)	0		20-Mar-24*							♦ OH\	/D Sofi	fit Fire B	oard com	pletion	(BTP)	
236	Black paint painting	6	20-Mar-24	26-Mar-24								Black	k paint p	ainting			
237	Linear Heat Detection Cable bracket, Containment Installation - (28	27-Mar-24	03-May-24			· · · · · · · · · · · · · · · · · · ·			·						🗖 Line	∋ar⊦
238	2nd Fixing	38	04-May-24	19-Jun-24									·				+
239	Tunnel Damper Wiring Works - OHVD	30	04-May-24	08-Jun-24										· - <mark>-</mark>			
240	Final Circuit Installation - OHVD	24	22-May-24	19-Jun-24													· - +
241	Final Fixing	24	20-Jun-24	18-Jul-24									·				
242	Tunnel Lighting Installation - OHVD	24	20-Jun-24	18-Jul-24									· · · · · · · · · · · · · · · · · · ·				
243	Non CP side	118	29-Feb-24	24-Jul-24													+
244	1st Fixing	12	30-Apr-24	14-May-24													
245	NCPS Bracket completion	0		14-May-24									1				
246	E&M Bracket	12	30-Apr-24*	14-May-24													
247	2nd Fixing	118	29-Feb-24	24-Jul-24													· - +
248	High Voltage cable delivery arrival at site	0		29-Feb-24*				•	· .	•	able de	• F	arrival at	1	8 8 8 8	8	: : :
249	HV Cable Pulling - NCPS (Parapet location)	30	29-Feb-24	08-Apr-24				-		:		:	——————————————————————————————————————	IV Cable F	Pulling	NCPS	(Par
250	Cable Laying - NCPS	10	16-May-24	27-May-24													
251	Cable Fixing - NCPS	14	28-May-24	13-Jun-24							·		·				
252	Smartone / CSL / GOFS by others	24	14-Jun-24	12-Jul-24					· · · · · · · · · · · · ·		·		·	·			·
253	Cable Joint works - NCPS	20	02-Jul-24	24-Jul-24						·	·		·				· - 4
254	2nd section CH7109-7607 - (498m) WB CPS & NCPS + EB CPS										· · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			· - +
255	E&M Installation (BYME)	124 124	28-Feb-24 28-Feb-24	30-Jul-24 30-Jul-24						·							· - +
256	CP side	82	28-Feb-24	08-Jun-24													· - +
257	1st Fixing	24	28-Feb-24	26-Mar-24													- -
258	E&M Bracket installation	24	28-Feb-24*	26-Mar-24								E&M	Bracket	installatio	on :		: : : :
259 260	2nd Fixing	54	05-Apr-24	08-Jun-24										Cab	ابد ا مار	ng - CPS	\$
	Cable Laying - CPS	10	05-Apr-24	16-Apr-24													.
261	Cable Fixing - CPS	24	17-Apr-24	16-May-24									, , , , ,				-
262	Cable Joint works - CPS	20	17-May-24	08-Jun-24							-		-		-		-
263	OHVD Soffit	110	15-Mar-24	30-Jul-24					· · · · · · · · · · · ·								
264 265	1st Fixing OHVD Soffit Fire Board completion (BTP)	46 0	15-Mar-24	13-May-24 15-Mar-24*						♦ C		offit Fir	re Board	completio	on (BTF)	· - +
266			07.14 04													<u></u>	· - ÷
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267	Linear Heat Detection Cable bracket, Containment Installation - (30	08-Apr-24	13-May-24													
268	2nd Fixing	38	17-May-24	02-Jul-24									·				
269	Tunnel Damper Wiring Works - OHVD	30	17-May-24	21-Jun-24					-		-		-				1
Page	 7 of 9 Milestone Planned Bar Critical Bar 		E	for	Trunk Roa r Developn Months Ro	ments a	at South	n Ap	oron					B		(GUE (PUBLI	S ICS

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# Act	tivity Name	Dur	Start	Finish	011001		_	Ech	hruppy			More	h			٨٠٠	2024			M	21/			lu-	0		- Lei	ulv.
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270	Final Circuit Installation - OHVD	24	03-Jun-24	02-Jul-24		-														-						Fina	al Circu	uit Installat
271	Final Fixing	24	03-Jul-24	30-Jul-24																								
272	Tunnel Lighting Installation - OHVD	24	03-Jul-24	30-Jul-24		8		-					1			:			1									
273	Non CP side	92	09-Apr-24	29-Jul-24																								
274	1st Fixing	12	16-May-24	29-May-24																- +								; ; ;
275	NCPS Bracket completion	0		29-May-24	1										-										t completio	on		
276	E&M Bracket	12	16-May-24	29-May-24		8		8					1	-		-	-		1 1 1 1 1 1 1	. [-		E&M Br	acket	8			1
277	2nd Fixing	92	09-Apr-24	29-Jul-24				· · · · · · · · · · · · · · · · · · ·								1	:					·;						·
278	HV Cable Pulling - NCPS (Parapet location)	30	09-Apr-24	14-May-24		-					5 5 5												ling - N	CPS (F	Parapet loo	cation)		
279	Cable Laying - NCPS	10	30-May-24	11-Jun-24																				🗖 Ca	ible Laying	g - NCPS		
280	Cable Fixing - NCPS	14	14-Jun-24	29-Jun-24				·····																		Cable	Fixing	g - NCPS
281	Cable Joint works - NCPS	20	02-Jul-24	24-Jul-24																- +								(
282	Smartone / CSL / GOFS by others	24	02-Jul-24	29-Jul-24				· · · · · · · · · · · · · · · · · · ·	·																			
283	TCSS (Gtech)	70	17-Apr-24	11-Jul-24				· · · · · · · · · · · ·																				
284	TCSS access date CPS	0	17-Apr-24	11 001 21		· · · · · · · · · · · · · · · · · · ·											TCSS	S acc	ess date	CPS					·			
285	TCSS access date OHVD soffit	0	14-May-24																	•	TCSS a	ccess	date O	HVD s	offit			
286	TCSS access date NCPS	0	12-Jun-24																	- +				♦ T(CSS acces	ss date NC	CPS	
287	CPS	48	17-Apr-24	14-Jun-24				 ;												- 1 					· · · · · · · · · · · · · · · · · · ·			
288	TCSS installation CPS	48	17-Apr-24	14-Jun-24																					TCSS ins	tallation C	PS	
289	OHVD Soffit	48	14-May-24	11-Jul-24																					· · · · · · · · · · · · · · · · · · ·			
290	TCSS installation OHVD soffit	48	14-May-24	11-Jul-24																							🗖 T(CSS instal
291	3rd section CH7607-8107 - (500m) WB CPS & NCPS + EB CPS	119	29-Feb-24	25-Jul-24				•••••																	· · · · · · · · · · · · · · · · · · ·			
292	E&M Installation (BYME)	119	29-Feb-24	25-Jul-24																								
293	CP side	78	27-Mar-24	04-Jul-24																· · · · · · · · · · · · · · · · · · ·								
294 295	1st Fixing	24	27-Mar-24	27-Apr-24				· · · · · · · · · · · · · · · · · · ·											&M Bra	okot ir	ctallati							·
	E&M Bracket installation	24	27-Mar-24	27-Apr-24														C			15 tallati	лı						
296 297	2nd Fixing	54	29-Apr-24	04-Jul-24				· · · · · · · · · · · · · · · · · · ·												1 Cał	ole Layi	na - Cl	ρς		· · · · · · · · · · · · · · · · · · ·			
	Cable Laying - CPS	10	29-Apr-24	10-May-24																- <u></u>		ig O		0-1-1				
298	Cable Fixing - CPS	24	11-May-24	08-Jun-24		:					:													Cable	e Fixing - (1
299	Cable Joint works - CPS	20	11-Jun-24	04-Jul-24																						C	able Jo	oint works
300	OHVD Soffit	106	15-Mar-24	25-Jul-24							· · · · · · · · · · · · · · · · · · ·														· · · · · · · · · · · · · · · · · · ·			
301	1st Fixing	52	15-Mar-24	21-May-24										0.44									· · · · · · · · · ·					,
302	OHVD Soffit Fire Board completion (BTP)	0		15-Mar-24*								• (JHVD	Sottit	Fire Boar	:												
303	Black paint painting	6	08-Apr-24	13-Apr-24	1	1	1	1	1	1	1 1 1 1		1	1 1 1 1		— E	llack pa	aint pa		1	1 1 1 1	1		1	1			1
304	Linear Heat Detection Cable bracket, Containment Installation -	(30	15-Apr-24	21-May-24		·		· · · · · · · · · · · · · · · · · · ·											1	1	Ľ	inear l	Heat De	tectior	n Cable br	acket, Cor	ntainm	nent Installa
305	2nd Fixing	38	11-Jun-24	25-Jul-24																					· · · · · · · · · · · · · · · · · · ·			
306	Tunnel Damper Wiring Works - OHVD	30	11-Jun-24	16-Jul-24																								Tunnel
307	Final Circuit Installation - OHVD	24	27-Jun-24	25-Jul-24																					[+		
308	Non CP side	108	29-Feb-24	12-Jul-24				· · · · · · · · · · · · · · · · · · ·																				
309	1st Fixing		30-May-24	13-Jun-24																- +					· · · · · · · · · · · · · · · · · · ·			

Page 8 of 9

MilestonePlanned BarCritical Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme (Mar-24)

	Date	Revision	Checked	Approved
	31-Jan-24	Rev. A	SPa	
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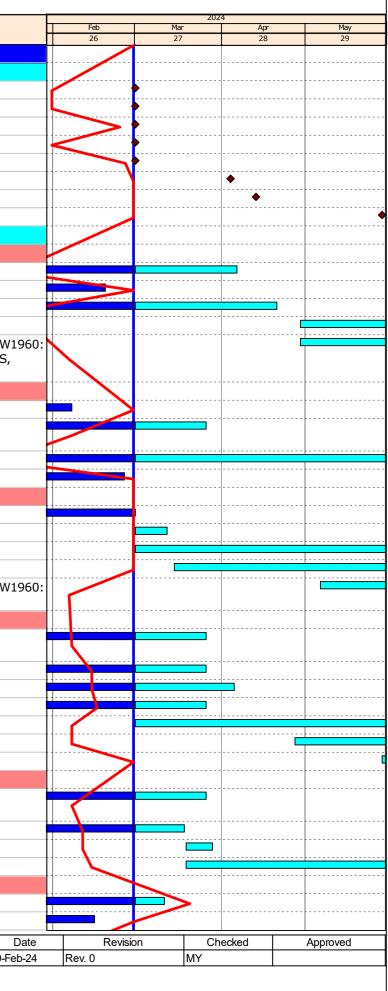
Three Months Rolling Programme (Mar-24)

CONTRACT NO. ED/2020/03 TRUNK ROAD T2 TRAFFIC CONTROL SURVEILLANCE SYSTEM AND ASSOCIATED WORKS THREE MONTH ROLLING PROGRAMME

	UNTH KULLING PRUGRAMIME								
ivity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
Trunk Road T	2 - Traffic Control & Surveillance System & Associated Works	433	01-Mar-24	09-Jan-25	03-Aug-23	31-Oct-26	01-Mar-23		
Access Date	S	88	01-Mar-24	28-May-24	23-May-24	24-Sep-26			
AC1000	Portion 1 - South Apron Up to SUS	0	01-Mar-24		27-May-24				
AC1010	Portion 2 - LSCC, WVB & Adit, EVB	0	01-Mar-24		24-Sep-26				
AC1020	Portion 3 - CKL Branch Tunnel in TKO-LTT Site	0	01-Mar-24		04-Jan-25				
AC1030	Portion 4 - TKO-LTT (LT Interchange)	0	01-Mar-24		23-May-24				
AC1050	Portion 2 - LS - CKL Tunnel CH 6+568 to CH 7+100	0	01-Mar-24		28-Sep-24				
AC1040	Underpass S21	0	04-Apr-24		26-Apr-25				
AC1060	Portion 2 - LS - CKL Tunnel CH 7+100 to CH 7+600	0	13-Apr-24		29-Aug-24				
AC1070	Portion 2 - LS - CKL Tunnel CH 7+600 to CH 8+100	0	28-May-24		15-0ct-24				
Summary by	Cost Center	433	01-Mar-24	09-Jan-25	03-Aug-23	31-Oct-26	01-Mar-23		
Cost Center	· B - Central System	232	01-Mar-24	08-Aug-24	01-Nov-23	14-Mar-25	01-Aug-23		
SC1060	Configuration for Central System	76	01-Mar-24	06-Apr-24	16-Sep-24	16-Sep-24	01-Aug-23		EM1150: SS
SC1040	FAT Plan Submission & Approval for Central System	81			· · ·		20-Sep-23	19-Feb-24	DS4300: SS
SC1050	FAT of Central System	59	01-Mar-24	20-Apr-24	01-Nov-23	30-Sep-24	31-Oct-23		EM1150: FS
SC1070	SCT Plan Submission & Approval for Central System	84	29-Apr-24	08-Aug-24	02-Dec-24	14-Mar-25			DS2940: SS
SC1080	Site Installation of Central System	71	29-Apr-24	24-Jul-24	08-Oct-24	17-Feb-25			SW1100: SS, SW1120: SS, SW1
									SS, SW1090: SS, SW1670: SS, SW1770: SS
Cost Center	C - Traffic Control Devices	160	01-Mar-24	30-Jun-24	16-Aug-24	16-Aug-24	15-Jun-23		
SC1170	FAT Plan Submission & Approval for Traffic Control Devices	66					15-Jun-23	07-Feb-24	DS4250: SS, DS8040: SS
SC1150	Installation Drawing Preparation, Submission & Approval for Traffic Control Devices	72	01-Mar-24	26-Mar-24	16-Aug-24	16-Aug-24	31-Aug-23		DS5890: SS
SC1190	Equipment Manufacturing & Delivery for Traffic Control Devices	135	01-Mar-24	30-Jun-24	16-Aug-24	16-Aug-24	16-Sep-23		EM1320: SS
SC1181	FAT of Traffic Control Devices (LED Signage)	0					30-Nov-23	26-Feb-24	EM1321: FS
Cost Center	D - Communication System	206	01-Mar-24	24-Jul-24	01-Mar-24	14-Mar-25	01-Oct-23		
SC1320	Equipment Manufacturing & Delivery for Communication System	104	01-Mar-24	01-Mar-24	15-Sep-24	15-Sep-24	01-Oct-23		EM1040: SS
SC1310	FAT of Communication System	10	01-Mar-24	12-Mar-24	01-Mar-24	27-Sep-24			EM1040: FS
SC1340	SCT Plan Submission & Approval for Communication System	84	01-Mar-24	11-Jun-24	24-0ct-24	14-Mar-25			DS3020: SS
SC1350	SAT Plan Submission & Approval for Communication System	80	15-Mar-24	20-Jun-24	07-Nov-24	13-Feb-25			DS3580: SS
SC1330	Site Installation of Communication System	66	06-May-24	24-Jul-24	08-Oct-24	17-Feb-25			SW1100: SS, SW1120: SS, SW1 SS
Cost Center	· E - CCTV System	383	01-Mar-24	09-Jan-25	01-Nov-23	31-Oct-26	01-Mar-23		
SC1410	Installation Drawing Preparation, Submission & Approval for CCTV System	99	01-Mar-24	26-Mar-24	31-Oct-26	31-Oct-26	01-Mar-23		DS5970: SS
SC1450	Equipment Manufacturing & Delivery for CCTV System	89	01-Mar-24	26-Mar-24	03-Aug-24	03-Aug-24	01-Aug-23		EM1050: SS
SC1440	FAT of CCTV System	96	01-Mar-24	05-Apr-24	01-Nov-23	13-Aug-24	31-Oct-23		EM1050: FS
SC1430	FAT Plan Submission & Approval for CCTV System	72	01-Mar-24	26-Mar-24	03-Aug-24	03-Aug-24	13-Dec-23		DS4050: SS
SC1460	SCT Plan Submission & Approval for CCTV System	84	01-Mar-24	11-Jun-24	03-Sep-24	09-Jan-25			DS3060: SS
SC1480	SAT Plan Submission & Approval for CCTV System	84	27-Apr-24	07-Aug-24	01-Nov-24	12-Feb-25			DS3620: SS
SC1470	Site Installation of CCTV System	188	28-May-24	09-Jan-25	10-Sep-24	05-Mar-25			SW1060: SS, SW1940: SS
	F - PABX System	222	01-Mar-24	28-Jun-24	21-Sep-24	12-Mar-25	27-Jul-23		
SC1560	Installation Drawing Preparation, Submission & Approval for PABX System	68	01-Mar-24	26-Mar-24	08-Oct-24	08-Oct-24	27-Jul-23		DS6010: SS
SC1580	Equipment Manufacturing & Delivery for PABX System	105	01-Mar-24	18-Mar-24	21-Sep-24	21-Sep-24	01-Aug-23		EM1060: SS
SC1570	FAT of PABX System	10	19-Mar-24	28-Mar-24	22-Sep-24	01-Oct-24			EM1060: FS
SC1600	SCT Plan Submission & Approval for PABX System	84	19-Mar-24	28-Jun-24	18-Oct-24	12-Mar-25			DS3100: SS
	· G - ET System	252	01-Mar-24	31-Aug-24	22-Jun-24	12-Mar-25	01-Aug-23		
SC1710	Equipment Manufacturing & Delivery for ET System	105	01-Mar-24	11-Mar-24	10-Dec-24	10-Dec-24	01-Aug-23		EM1070: SS
SC1680	FAT Plan Submission & Approval for ET System	72					07-Sep-23	15-Feb-24	DS4150: SS
		aining Work 🔶	Milestone	•	1	1	-		
	Actua	al Work							29-Feb
	Critics CTECH Services (Hong Kong) Limited	al Activity							Page 1 of 10



Appendix III B - Three Month Rolling Programme



Acti	<i>v</i> ity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	
	SC1690	Installation Drawing Preparation, Submission & Approval for ET System	72	01-Mar-24	27-May-24	22-Jun-24	27-Dec-24			DS6050: SS	
	SC1700	FAT of ET System	10	12-Mar-24	21-Mar-24	17-Sep-24	20-Dec-24			EM1070: FS	
	SC1730	SCT Plan Submission & Approval for ET System	84	12-Mar-24	21-Jun-24	17-Sep-24	11-Jan-25			DS3140: SS	
	SC1740	SAT Plan Submission & Approval for ET System	84	24-May-24	31-Aug-24	29-Nov-24	12-Mar-25			DS3700: SS	
		H - PA System	279	01-Mar-24	04-Sep-24	23-Sep-24	10-Apr-25	01-Aug-23			
	SC1840	Equipment Manufacturing & Delivery for PA System	89					01-Aug-23	27-Feb-24	EM1080: SS	
	SC1820	Installation Drawing Preparation, Submission & Approval for PA System	72	01-Mar-24	26-Mar-24	23-Sep-24	23-Sep-24	31-Aug-23		DS6090: SS	
	SC1830	FAT of PA System	0					26-Feb-24	28-Feb-24	EM1080: FS	
	SC1850	SCT Plan Submission & Approval for PA System	84	01-Mar-24	11-Jun-24	03-Oct-24	12-Feb-25			DS3180: SS	
	SC1870	SAT Plan Submission & Approval for PA System	84	28-May-24	04-Sep-24	28-Dec-24	10-Apr-25			DS3740: SS	
		I - Radio System	243	01-Mar-24	04-Sep-24	01-Feb-24	08-Mar-25	01-Aug-23			
	SC1970	Equipment Manufacturing & Delivery for Radio System	119	01-Mar-24	14-Mar-24	02-Oct-24	02-Oct-24	01-Aug-23		EM1090: SS	
	SC1950	FAT Plan Submission & Approval for Radio System	60	01-Mar-24	14-Mar-24	02-Oct-24	02-Oct-24	28-Dec-23		DS4350: SS	
	SC1960	FAT of Radio System	14	01-Mar-24	28-Mar-24	01-Feb-24	16-Oct-24	31-Jan-24		EM1090: FS	
	SC1930	Installation Drawing Preparation, Submission & Approval for Radio System	60	01-Mar-24	11-May-24	22-Jul-24	23-Oct-24			DS6130: SS	
	SC1980	SCT Plan Submission & Approval for Radio System	84	01-Mar-24	11-Jun-24	27-Aug-24	08-Mar-25			DS3220: SS	
	SC2000	SAT Plan Submission & Approval for Radio System	84	28-May-24	04-Sep-24	22-Nov-24	05-Mar-25			DS3780: SS	
		J - Detection System	176	01-Mar-24	11-Jun-24	01-Nov-23	31-Oct-26	24-May-23			
	SC2060	Installation Drawing Preparation, Submission & Approval for Detection System	124	01-Mar-24	12-Mar-24	31-Oct-26	31-Oct-26	24-May-23		DS6170: SS	
	SC2100	Equipment Manufacturing & Delivery for Detection System	90	01-Mar-24	20-May-24	30-Jul-24	30-Jul-24	01-Aug-23		EM1100: SS	
	SC2090	FAT of Detection System	87	01-Mar-24	03-Jun-24	01-Nov-23	13-Aug-24	31-0ct-23		EM1100: FS	
	SC2080	FAT Plan Submission & Approval for Detection System	66	01-Mar-24	20-May-24	11-May-24	30-Jul-24			DS4450: SS	
	SC2110	SCT Plan Submission & Approval for Detection System	84	01-Mar-24	11-Jun-24	09-Sep-24	17-Jan-25			DS3260: SS	
		K - Manual Fallback System	238	01-Mar-24	15-Aug-24	09-Sep-24	14-Mar-25	01-Aug-23			
	SC2220	FAT of Manual Fallback System	60	01-Mar-24	30-Mar-24	09-Sep-24	09-Sep-24	01-Aug-23		EM1640: SS	
	SC2190	Installation Drawing Preparation, Submission & Approval for Manual Fallback System	60	01-Mar-24	26-Mar-24	08-Jan-25	08-Jan-25	31-Aug-23		DS6210: SS	
	SC2210	FAT Plan Submission & Approval for Manual Fallback System	72					20-Sep-23	15-Feb-24	DS4750: SS	
	SC2200	Post FAT Configuration for Manual Fallback System	90	31-Mar-24	28-Jun-24	10-Sep-24	08-Jan-25			EM1540: FS	
	SC2250	SCT Plan Submission & Approval for Manual Fallback System	84	08-Apr-24	18-Jul-24	17-Sep-24	14-Mar-25			DS3300: SS	
	SC2270	SAT Plan Submission & Approval for Manual Fallback System	84	07-May-24	15-Aug-24	18-Oct-24	25-Jan-25			DS3860: SS	
		L - Speed Enforcement System	108	01-Mar-24	10-Jul-24	23-Sep-24	11-Apr-25			D.0(200, 00	
	SC2340	Installation Drawing Preparation, Submission & Approval for Speed Enforcement System	60	01-Mar-24	11-May-24	23-Sep-24	01-Mar-25			DS6290: SS	
	SC2370	SCT Plan Submission & Approval for Speed Enforcement System	84	01-Mar-24	11-Jun-24	30-Nov-24	22-Mar-25			DS3380: SS	
	SC2380	Reliability Test Plan Submission & Approval for Speed Enforcement System	84	29-Mar-24	10-Jul-24	30-Dec-24	11-Apr-25			DS3940: SS	
		M - Power Distribution System	160	01-Mar-24	31-May-24	28-Sep-23	12-Aug-24	30-Aug-23			
	SC2460	Installation Drawing Preparation, Submission & Approval for Power Distribution System	60	01-Mar-24	26-Mar-24	27-Jun-24	27-Jun-24	30-Aug-23		DS6370: SS	
	SC2470	Equipment Manufacturing & Delivery for Power Distribution System	98	01-Mar-24	31-May-24	28-Sep-23	12-Aug-24	27-Sep-23		DS2592: FS	
		N - Government Optical Fibre System	233	01-Mar-24	31-May-24	03-Aug-23	19-Nov-24	02-Aug-23			
	SC2560	Equipment Manufacturing & Delivery for Government Optical Fibre System	111	01-Mar-24	31-May-24	03-Aug-23	19-Nov-24	02-Aug-23		DS2650: FS 200	
	SC2550	Installation Drawing Preparation, Submission & Approval for Government Optical Fibre System	60	01-Mar-24	11-May-24	07-Sep-24	19-Nov-24			DS6330: SS	
	Operation Fa	acilities	99	01-Mar-24	21-Aug-24	22-May-24	20-Jan-25	01-Aug-23			
	SC2660	FAT of Operation Facilities	78	01-Mar-24	21-Aug-24	31-Aug-24	31-Aug-24	01-Aug-23		EM1560: SS	
	SC2630	Installation Drawing Preparation, Submission & Approval for Operation Facilities	60	01-Mar-24	11-May-24	09-Nov-24	20-Jan-25			DS6250: SS	
											-
		Dama	aining Work 🔶	Milestone							L



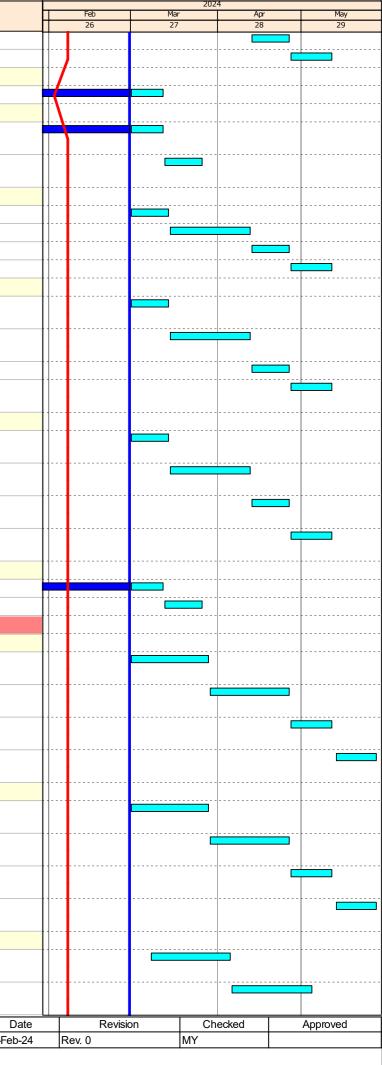
Remaining Work 🔶 Actual Work Critical Activity

Milestone



Activity ID Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details			20	24	
									E H	Feb 26	Mar 27	Apr 28	May 29
SC2650 FAT Plan Submission & Approval for Operation Facilities	81	01-Mar-24	06-Jun-24	22-May-24	26-Aug-24			DS4600: SS					
Design & Submissions	278	01-Mar-24	16-Aug-24	11-Mar-24	25-Jun-25	29-Aug-23							
FSP Submissions (42 Working Days after Commencement of FSP)	278	01-Mar-24	16-Aug-24	11-Mar-24	25-Jun-25	29-Aug-23							
FSP Batch 1 Submission	278	01-Mar-24	16-Aug-24	11-Mar-24	25-Jun-25	29-Aug-23							
Central System	278	01-Mar-24	16-Aug-24	11-Mar-24	25-Jun-25	29-Aug-23							
Traffic Plan Review & Combine	140	01-Mar-24	16-Aug-24	11-Mar-24	26-Aug-24								
DS7300 Traffic Plan Review & Combine Workshop	140	01-Mar-24	16-Aug-24		-			DS1830: FS 22					
IT Security Risk Assessment Plan	30	01-Mar-24	01-Mar-24										
DS7440 Approval on IT Security Risk Assessment Plan	30		01-Mar-24			29-Aug-23		DS7430: FS					
Interface Coordination & Integration with Other Parties	96	01-Mar-24	25-Jun-24	08-Apr-24	· · ·								
Interfacing Coordination with CKR (KTE)	73	01-Mar-24	28-May-24		•								
Detail Interfacing Management Plan (DIMP)	73	01-Mar-24	28-May-24	17-Jun-26	•								
DS6610 Prepare & Submit DIMP with CKR (KTE)	73	01-Mar-24	-	17-Jun-26				DS6600: FS 96					
Interfacing Coordination with CKR (BEM)	73	01-Mar-24	28-May-24		11-Sep-26								
Detail Interfacing Management Plan (DIMP)	73	01-Mar-24	_	17-Jun-26	-								
DS6690 Prepare & Submit DIMP with CKR (BEM)	73	01-Mar-24	28-May-24					DS6600: FS 96					
Interfacing Coordination with TKO-LTT (Civil)	76	01-Mar-24	31-May-24		10-Sep-26								
Detail Interfacing Management Plan (DIMP)	76	01-Mar-24	31-May-24	12-Jun-26	10-Sep-26								
DS6770 Prepare & Submit DIMP with TKO-LTT (Civil)	76		31-May-24					DS6760: FS 96					
Interfacing Coordination with TKO-LTT (TCSS)	76	01-Mar-24	31-May-24										
Detail Interfacing Management Plan (DIMP)	76	01-Mar-24	31-May-24		14-Sep-26								
DS6850 Prepare & Submit DIMP with TKO-LTT (TCSS)	76	01-Mar-24	31-May-24		14-Sep-26			DS6840: FS 108					
Interfacing Coordination with T2	96	01-Mar-24	25-Jun-24		01-Aug-24								
Preliminary Interfacing Management Plan (PIMP)	72	01-Mar-24	27-May-24	08-Apr-24	04-Jul-24								
DS6890 Prepare & Submit PIMP with T2	24	01-Mar-24	28-Mar-24	08-Apr-24	06-May-24			DS2680: FS 211					
DS6900 Comment on PIMP with T2	24	29-Mar-24	26-Apr-24	07-May-24	04-Jun-24			DS6890: FS			[
DS6910 Resubmit PIMP with T2	12	27-Apr-24	11-May-24	05-Jun-24	19-Jun-24			DS6900: FS					
DS6920 Approval of PIMP with T2	12	13-May-24	27-May-24	20-Jun-24	04-Jul-24			DS6910: FS					
Detail Interfacing Management Plan (DIMP)	24	28-May-24	25-Jun-24	05-Jul-24	01-Aug-24								
DS6930 Prepare & Submit DIMP with T2	24	28-May-24	25-Jun-24	05-Jul-24	01-Aug-24			DS6920: FS					[
Drawing & Installation Method Statement Submissions	162	01-Mar-24	08-Jun-24	06-Apr-24	31-Oct-26	10-Aug-23							
Installation Drawing Submission	159	01-Mar-24	05-Jun-24	•	31-Oct-26	08-Sep-23							
DS2695 Prepare & Submit Schedule of Installation Drawing	30	01-Mar-24	05-Apr-24	06-Apr-24				DS1050: FS 103					
DS2705 Approval of Schedule of Installation Drawing	50	06-Apr-24	05-Jun-24	13-May-24	12-Jul-24			DS2695: FS					
Traffic Control Devices	99	01-Mar-24	26-Mar-24	23-Jul-24	16-Aug-24	07-Oct-23							
DS5910 Resubmit Installation Drawing for Traffic Control Devices	12	01-Mar-24	12-Mar-24	23-Jul-24	02-Aug-24	07-Oct-23		DS5900: FS					
DS5920 Approval of Installation Drawing for Traffic Control Devices	12	13-Mar-24	26-Mar-24	03-Aug-24	16-Aug-24			DS5910: FS, SC1150: FF					
CCTV System	32	01-Mar-24	26-Mar-24	06-Oct-26	31-Oct-26	13-Dec-23					<u></u>		
DS8020 Resubmit Installation Drawing for CCTV System	26	01-Mar-24	12-Mar-24	06-Oct-26	16-Oct-26	13-Dec-23		DS8010: FS					
DS8030 Approval of Installation Drawing for CCTV System	12	13-Mar-24	26-Mar-24	17-Oct-26	31-Oct-26			DS8020: FS, SC1410: FF					
PABX System	101	01-Mar-24	26-Mar-24	11-Sep-24	08-Oct-24	08-Sep-23					<u></u>		
DS6030 Resubmit Installation Drawing for PABX System	12	01-Mar-24	12-Mar-24	11-Sep-24	23-Sep-24	08-Sep-23		DS6020: FS			·····		
DS6040 Approval of Installation Drawing for PABX System	12	13-Mar-24	26-Mar-24	24-Sep-24	08-Oct-24			DS6030: FS, SC1560: FF					
ET System	72	01-Mar-24	27-May-24	22-Jun-24	27-Dec-24						<u></u>		
DS6050 Prepare & Submit Installation Drawing for ET System	24	01-Mar-24	28-Mar-24	22-Jun-24	20-Jul-24			DS2770: SS 19				<u> </u>	
DS6060 Comment on Installation Drawing for ET System	24	29-Mar-24	26-Apr-24	01-Nov-24	28-Nov-24		1	DS6050: FS			[
DS6070 Resubmit Installation Drawing for ET System	12	27-Apr-24	11-May-24	29-Nov-24	12-Dec-24			DS6060: FS					
DS6080 Approval of Installation Drawing for ET System	12	13-May-24	27-May-24					DS6070: FS, SC1690: FF					
PA System	99	01-Mar-24	26-Mar-24	28-Aug-24	-	12-0ct-23							
DS6110 Resubmit Installation Drawing for PA System	12	01-Mar-24	12-Mar-24	28-Aug-24	-	12-0ct-23		DS6100: FS	I				
DS6120 Approval of Installation Drawing for PA System	12	13-Mar-24	26-Mar-24	09-Sep-24	23-Sep-24			DS6110: FS, SC1820: FF					
Radio System	60	01-Mar-24	11-May-24	22-Jul-24	23-Oct-24								
DS6130 Prepare & Submit Installation Drawing for Radio System	12	01-Mar-24	14-Mar-24	22-Jul-24	03-Aug-24			DS2154: FS					
DS6140 Comment on Installation Drawing for Radio System	24	15-Mar-24	12-Apr-24	26-Aug-24	23-Sep-24			DS6130: FS					
									Date	Revisi	on CI	hecked	Approved
	aining Work	Milestone	9							Rev. 0	MY		
	al Work										I	I	
GTECH Services (Hong Kong) Limited	al Activity							Page 3 of 10					

Activi	ity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
	DS6150	Resubmit Installation Drawing for Radio System	12	13-Apr-24	26-Apr-24	24-Sep-24	08-Oct-24			DS6140: FS
	DS6160	Approval of Installation Drawing for Radio System	12	27-Apr-24	11-May-24	09-Oct-24	23-0ct-24			DS6150: FS, SC1930: FF
	Detection S		12	01-Mar-24	12-Mar-24	21-Oct-26	31-Oct-26	26-Nov-23		
	DS6200	Approval of Installation Drawing for Detection System	12	01-Mar-24	12-Mar-24	21-0ct-26	31-0ct-26	26-Nov-23		DS6190: FS, SC2060: FF
		back Control System	16	01-Mar-24	26-Mar-24	12-Dec-24	08-Jan-25	07-Oct-23		
	DS6230	Resubmit Installation Drawing for Manual Fallback Control System	12	01-Mar-24	12-Mar-24	12-Dec-24	23-Dec-24	07-Oct-23		DS6220: FS
	DS6240	Approval of Installation Drawing for Manual Fallback Control System	12	13-Mar-24	26-Mar-24	24-Dec-24	08-Jan-25			DS6230: FS, SC2190: FF
	Operation F	acility	60	01-Mar-24	11-May-24	09-Nov-24	20-Jan-25			
	DS6250	Prepare & Submit Installation Drawing for Operation Facility	12	01-Mar-24	14-Mar-24	09-Nov-24	22-Nov-24			DS2532: FS
	DS6260	Comment on Installation Drawing for Operation Facility	24	15-Mar-24	12-Apr-24	23-Nov-24	20-Dec-24			DS6250: FS
	DS6270	Resubmit Installation Drawing for Operation Facility	12	13-Apr-24	26-Apr-24	21-Dec-24	06-Jan-25			DS6260: FS
	DS6280	Approval of Installation Drawing for Operation Facility	12	27-Apr-24	11-May-24	07-Jan-25	20-Jan-25			DS6270: FS, SC2630: FF
	Speed Enfo	rcement System	60	01-Mar-24	11-May-24	23-Sep-24	01-Mar-25			
	DS6290	Prepare & Submit Installation Drawing for Speed Enforcement System	12	01-Mar-24	14-Mar-24	23-Sep-24	07-Oct-24			DS2472: FS
	DS6300	Comment on Installation Drawing for Speed Enforcement System	24	15-Mar-24	12-Apr-24	02-Jan-25	01-Feb-25			DS6290: FS
	DS6310	Resubmit Installation Drawing for Speed Enforcement System	12	13-Apr-24	26-Apr-24	03-Feb-25	15-Feb-25			DS6300: FS
	DS6320	Approval of Installation Drawing for Speed Enforcement System	12	27-Apr-24	11-May-24	17-Feb-25	01-Mar-25			DS6310: FS, SC2340: FF
	Governmen	t Optical Fibre System	60	01-Mar-24	11-May-24	07-Sep-24	19-Nov-24			
	DS6330	Prepare & Submit Installation Drawing for Government Optical Fibre System	12	01-Mar-24	14-Mar-24	07-Sep-24	21-Sep-24			DS2650: FS, DS2592: SS
	DS6340	Comment on Installation Drawing for Government Optical Fibre System	24	15-Mar-24	12-Apr-24	23-Sep-24	22-0ct-24			DS6330: FS
	DS6350	Resubmit Installation Drawing for Government Optical Fibre System	12	13-Apr-24	26-Apr-24	23-Oct-24	05-Nov-24			DS6340: FS
	DS6360	Approval of Installation Drawing for Government Optical Fibre System	12	27-Apr-24	11-May-24	06-Nov-24	19-Nov-24			DS6350: FS, SC2550: FF
	Power Distr	ribution System	38	01-Mar-24	26-Mar-24	01-Jun-24	27-Jun-24	20-Jan-24		
	DS6401	Resubmit Installation Drawing for Power Distribution System	12	01-Mar-24	12-Mar-24	01-Jun-24	13-Jun-24	20-Jan-24		DS6400: FS
	DS6402	Approval of Installation Drawing for Power Distribution System	12	13-Mar-24	26-Mar-24	14-Jun-24	27-Jun-24			DS6401: FS, SC2460: FF
	Installation N	lethod Statement Submission	134	01-Mar-24	08-Jun-24	23-May-24	31-Dec-24	10-Aug-23		
	Traffic Cont	rol Devices	72	01-Mar-24	27-May-24	23-May-24	16-Aug-24			
	DS2780	Prepare & Submit Installation Method Statement for Installation of TCSS Field Equipment	24	01-Mar-24	28-Mar-24	23-May-24	20-Jun-24			DS5890: FS 2
	DS2790	Comment on Installation Method Statement for Installation of TCSS Field Equipment	24	29-Mar-24	26-Apr-24	21-Jun-24	19-Jul-24			DS2780: FS
	DS2800	Resubmit Installation Method Statement for Installation of TCSS Field Equipment	12	27-Apr-24	11-May-24	20-Jul-24	02-Aug-24			DS2790: FS
	DS2810	Approval of Installation Method Statement for Installation of TCSS Field Equipment	12	13-May-24	27-May-24	03-Aug-24	16-Aug-24			DS2800: FS
	CCTV Came	era & VD Camera	72	01-Mar-24	27-May-24	27-May-24	20-Aug-24			
	DS6410	Prepare & Submit Installation Method Statement for CCTV Camera & VD Camera	24	01-Mar-24	28-Mar-24	27-May-24	24-Jun-24			DS5990: FS, DS6190: FS 2
	DS6420	Comment on Installation Method Statement for CCTV Camera & VD Camera	24	29-Mar-24	26-Apr-24	25-Jun-24	23-Jul-24			DS6410: FS
	DS6430	Resubmit Installation Method Statement for CCTV Camera & VD Camera	12	27-Apr-24	11-May-24	24-Jul-24	06-Aug-24			DS6420: FS
	DS6440	Approval of Installation Method Statement for CCTV Camera & VD Camera	12	13-May-24	27-May-24	07-Aug-24	20-Aug-24			DS6430: FS
	PABX, ET &	PA Systems	72	08-Mar-24	03-Jun-24	29-Jun-24	23-Sep-24			
	DS6450	Prepare & Submit Installation Method Statement for PABX, ET & PA Systems	24	08-Mar-24	05-Apr-24	29-Jun-24	27-Jul-24			DS6010: FS, DS6050: SS 6, DS6090: FS
	DS6460	Comment on Installation Method Statement for PABX, ET & PA Systems	24	06-Apr-24	04-May-24	29-Jul-24	24-Aug-24			DS6450: FS
			aining Work 🔶 I Work	Milestone	9					 29-Fel
			al Activity							Page 4 of 10

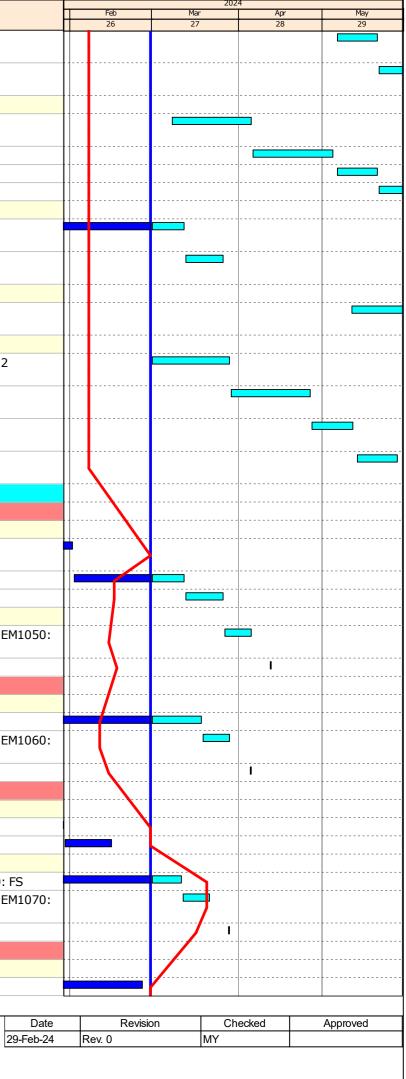


Activ	vity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
	DS6470	Resubmit Installation Method Statement for PABX, ET & PA Systems	12	06-May-24	20-May-24	26-Aug-24	07-Sep-24			DS6460: FS
	DS6480	Approval of Installation Method Statement for PABX, ET & PA Systems	12	21-May-24	03-Jun-24	09-Sep-24	23-Sep-24			DS6470: FS
	Radio Syste	em	72	08-Mar-24	03-Jun-24	29-Jul-24	23-Oct-24			
	DS6490	Prepare & Submit Installation Method Statement for Radio System	24	08-Mar-24	05-Apr-24	29-Jul-24	24-Aug-24			DS6130: SS 6
	DS6500	Comment on Installation Method Statement for Radio System	24	06-Apr-24	04-May-24	26-Aug-24	23-Sep-24			DS6490: FS
	DS6510	Resubmit Installation Method Statement for Radio System	12	06-May-24	20-May-24	24-Sep-24	08-Oct-24			DS6500: FS
	DS6520	Approval of Installation Method Statement for Radio System	12	21-May-24	03-Jun-24	09-Oct-24	23-Oct-24			DS6510: FS
		ribution System	73	01-Mar-24	26-Mar-24	01-Jun-24	27-Jun-24	10-Aug-23		
	DS6550	Resubmit Installation Method Statement for Power Distribution System	6	01-Mar-24	12-Mar-24	01-Jun-24	13-Jun-24	10-Aug-23		DS6540: FS
	DS6560	Approval of Installation Method Statement for Power Distribution System	12	13-Mar-24	26-Mar-24	14-Jun-24	27-Jun-24			DS6550: FS
	SEC System		24	11-May-24	08-Jun-24	03-Dec-24	31-Dec-24			
	DS7380	Prepare & Submit Installation Method Statement for SEC System	24	11-May-24	08-Jun-24	03-Dec-24	31-Dec-24			DS6290: FS 47
	Detection S		72	01-Mar-24	27-May-24	27-May-24	20-Aug-24			
	DS7470	Prepare & Submit Installation Method Statement for Detection System	24	01-Mar-24	28-Mar-24	27-May-24	24-Jun-24			DS5990: FS, DS6190: FS 2
	DS7480	Comment on Installation Method Statement for Detection System	24	29-Mar-24	26-Apr-24	25-Jun-24	23-Jul-24			DS7470: FS
	DS7490	Resubmit Installation Method Statement for Detection System	12	27-Apr-24	11-May-24	24-Jul-24	06-Aug-24			DS7480: FS
	DS7500	Approval of Installation Method Statement for Detection System	12	13-May-24	27-May-24	07-Aug-24	20-Aug-24			DS7490: FS
		missions, Equipment Procurement & Manufacturing	191	01-Mar-24	30-Jun-24	17-Apr-24	18-Oct-26	01-Aug-23		
	CCTV Syster		34	01-Mar-24	12-Apr-24	10-Jul-24	20-Aug-24	12-Jan-24		
	FAT Plan Su		24	01-Mar-24	26-Mar-24	10-Jul-24	03-Aug-24	12-Jan-24		
	DS4060	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	24					12-Jan-24	01-Feb-24	
	DS4070	Resubmission of FAT Plan for CCTV System	12	01-Mar-24	12-Mar-24		20-Jul-24	02-Feb-24		DS4060: FS
	DS4080	Approval of FAT Plan for CCTV System	12	13-Mar-24	26-Mar-24	22-Jul-24	03-Aug-24			DS4070: FS, SC1430: FF
		FAT & Manufacturing	14	27-Mar-24	12-Apr-24	04-Aug-24	20-Aug-24			
		FAT of CCTV System	10	27-Mar-24	05-Apr-24	04-Aug-24	13-Aug-24			DS4080: FS, SC1440: FF, EM105 FS, SC1450: FS
	DS4090	Submit CCTV System FAT Test Report	1	12-Apr-24	12-Apr-24	20-Aug-24	20-Aug-24			EM1480: FS 6
	PABX System		122	01-Mar-24	05-Apr-24	04-Sep-24	08-Oct-24	01-Aug-23		
		FAT & Manufacturing	122	01-Mar-24	05-Apr-24	04-Sep-24	08-Oct-24	01-Aug-23		
	EM1060 EM1490	Manufacturing & Delivery of PABX System FAT of PABX System	105 10	01-Mar-24 19-Mar-24	18-Mar-24 28-Mar-24	04-Sep-24 22-Sep-24	21-Sep-24 01-Oct-24	01-Aug-23		DS2750: FS, DS7570: FS DS4130: FS, SC1570: FF, EM106
	DS4140	Submit PABX System FAT Test Report	1	05-Apr-24	05-Apr-24	08-Oct-24	08-0ct-24			FS, SC1580: FS EM1490: FS 6
	ET System	Submit FADA System AT Test Report	127	01-Mar-24	28-Mar-24	06-Sep-24	27-Dec-24	01-Aug-23		LM1490.130
	FAT Plan Su	Ibmission	94			00 360 24	27 Dec 24	02-Nov-23	15-Feb-24	
	DS4170	Resubmission of FAT Plan for ET System	12					02-Nov-23		DS4160: FS
	DS4180	Approval of FAT Plan for ET System	12					30-Jan-24		DS4170: FS, SC1680: FF
		FAT & Manufacturing	85	01-Mar-24	28-Mar-24	06-Sep-24	27-Dec-24	01-Aug-23		
	EM1070	Manufacturing & Delivery of ET System	105	01-Mar-24	11-Mar-24	06-Sep-24	16-Sep-24	01-Aug-23		DS2770: FS 118, DS7580: FS
	EM1500	FAT of ET System	10	12-Mar-24	21-Mar-24	11-Dec-24	20-Dec-24			DS4180: FS, SC1700: FF, EM107 FS, SC1710: FS
	DC4100	Submit ET System FAT Test Report	1	28-Mar-24	28-Mar-24	27-Dec-24	27-Dec-24			EM1500: FS 6
	DS4190	•	102	01-Mar-24	01-Mar-24	23-Sep-24	23-Sep-24	01-Aug-23		
	PA System		183	01-Mar-24	01-1101-24	23-3ep-24	23 SCP 24	01 / lag 20		
	PA System	FAT & Manufacturing	183	01-Mar-24 01-Mar-24	01-Mar-24 01-Mar-24	23-Sep-24	23-Sep-24	01-Aug-23		
	PA System Equipment F	FAT & Manufacturing Manufacturing & Delivery of PA System							26-Feb-24	DS7590: FS, DS2292: FS



Milestone

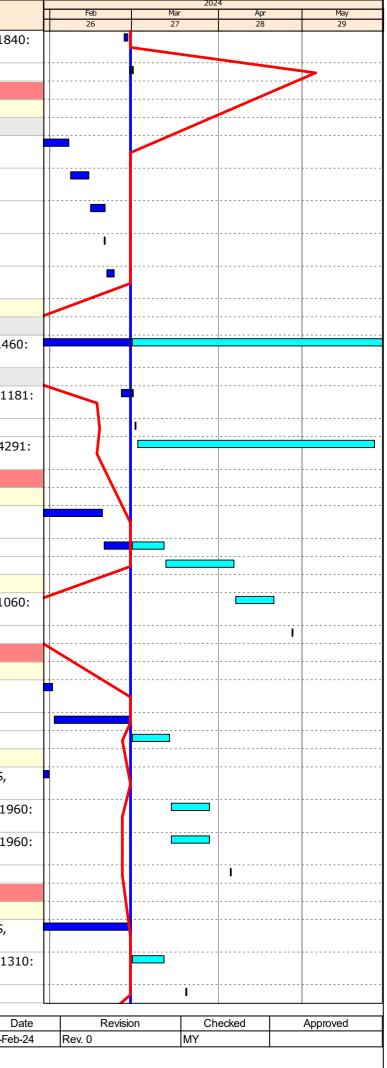
Page 5 of 10



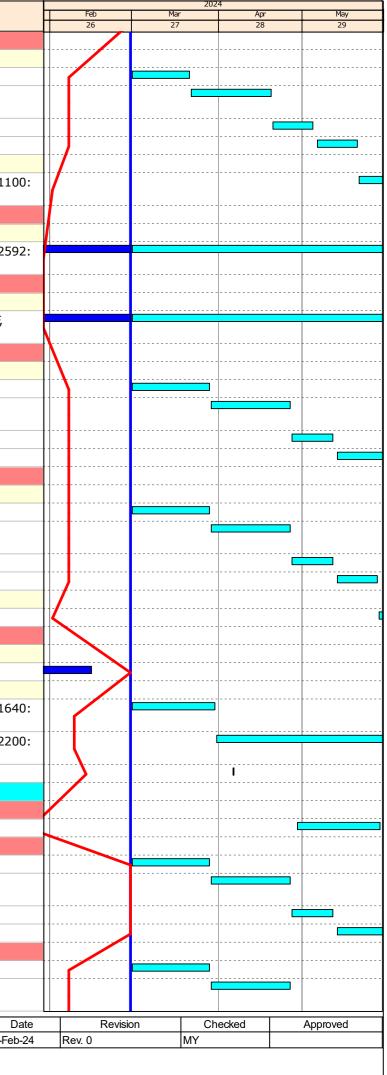
tivity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
EM1510	FAT of PA System	14					27-Feb-24	28-Feb-24	SC1830: FF, EM1080: FS, SC184 FS, DS4232: FS
DS4240	Submit PA System FAT Test Report	1	01-Mar-24	01-Mar-24	23-Sep-24	23-Sep-24	29-Feb-24		EM1510: FS 6
Traffic Contro	ol Devices	93	01-Mar-24	30-Jun-24	17-Apr-24	16-Aug-24	10-Oct-23		
FAT Plan Sul		74					23-Jan-24	23-Feb-24	
LED Signag		74					23-Jan-24	23-Feb-24	
DS8070	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	12					23-Jan-24		DS8060: FS, SC1170: FF
DS8080	Resubmission of FAT Plan for Traffic Control Devices (LED Signage)	12					08-Feb-24	14-Feb-24	DS8070: FS
DS8090	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	12					15-Feb-24	20-Feb-24	DS8080: FS
DS8100	Resubmission of FAT Plan for Traffic Control Devices (LED Signage)	12					20-Feb-24	20-Feb-24	DS8090: FS
DS8110	Approval of FAT Plan for Traffic Control Devices (LED Signage)	12					21-Feb-24	23-Feb-24	DS8100: FS
Equipment F	AT & Manufacturing	71	01-Mar-24	30-Jun-24	17-Apr-24	16-Aug-24	10-Oct-23		
PVMS		85	01-Mar-24	30-Jun-24	17-Apr-24	16-Aug-24	10-Oct-23		
EM1030	Post-FAT Manufacturing & Delivery of Traffic Control Devices (PVMS)	85	01-Mar-24	30-Jun-24	17-Apr-24	16-Aug-24	10-Oct-23		DS4290: FF, SC1190: FF, EM146 FS
LED Signag	je	71	01-Mar-24	26-May-24	22-May-24	16-Aug-24	26-Feb-24		
EM1461	FAT of Traffic Control Devices (LED Signage)	13	01-Mar-24	01-Mar-24	22-May-24	22-May-24	26-Feb-24		EM1460: FS, EM1320: FS, SC118 FS, DS8110: FS
DS4291	Submit Traffic Control Devices FAT Test Report (LED Signage)	1	02-Mar-24	02-Mar-24	23-May-24	23-May-24			EM1461: FS
EM1650	Post-FAT Manufacturing & Delivery of Traffic Control Devices (LED	85	03-Mar-24	26-May-24	24-May-24	16-Aug-24			EM1461: FS, SC1190: FF, DS429
Central Syste	Signage)	50	01-Mar-24	27-Apr-24	12-Aug-24	07-0ct-24	27-Jan-24		FS
FAT Plan Sul		32	01-Mar-24 01-Mar-24	06-Apr-24	12-Aug-24 12-Aug-24	16-Sep-24	27-Jan-24 27-Jan-24		
DS4330	Comment on FAT Plan/ Workshops (System Briefing & Comment	21	01-1101-24	00-Api-24	12-Aug-24	10-3ep-24	27-Jan-24	19-Feb-24	DS4320: FS, SC1040: FF
034330	Discussion)	21					27 Jun 24	17100 24	034320.13, 301040.11
DS8120	Resubmission of FAT Plan for Central System	12	01-Mar-24	12-Mar-24	12-Aug-24	22-Aug-24	20-Feb-24		DS4330: FS
DS8130	Approval of FAT Plan for Central System	21	13-Mar-24	06-Apr-24	23-Aug-24	16-Sep-24			DS8120: FS
Equipment F	AT & Manufacturing	18	07-Apr-24	27-Apr-24	17-Sep-24	07-Oct-24			
EM1580	FAT of Central System	14	07-Apr-24	20-Apr-24	17-Sep-24	30-Sep-24			SC1050: FF, EM1150: FS, SC106 FS, DS8130: FS
DS4340	Submit Central System FAT Test Report	1	27-Apr-24	27-Apr-24	07-Oct-24	07-Oct-24			EM1580: FS 6
Radio Systen		117	01-Mar-24	05-Apr-24	17-Sep-24	23-Oct-24	01-Aug-23		
FAT Plan Sul		29	01-Mar-24	14-Mar-24	17-Sep-24	02-Oct-24	12-Jan-24		
DS4360	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	24					12-Jan-24		DS4350: FS
							02-Feb-24	29-Feb-24	DS4360: FS
DS4370	Resubmission of FAT Plan for Radio System	12					02-160-24		
DS4380	Approval of FAT Plan for Radio System	12	01-Mar-24	14-Mar-24	17-Sep-24	02-Oct-24			DS4370: FS, SC1950: FF
DS4380			01-Mar-24 15-Mar-24	14-Mar-24 05-Apr-24	17-Sep-24 03-Oct-24	02-Oct-24 23-Oct-24	01-Aug-23 01-Aug-23	31-Jan-24	DS2150: FS 122, DS7620: FS,
DS4380 Equipment F	Approval of FAT Plan for Radio System FAT & Manufacturing	12 117					01-Aug-23	31-Jan-24	DS2150: FS 122, DS7620: FS, DS2154: FS EM1090: FS, SC1970: FS, SC19
DS4380 Equipment F EM1090	Approval of FAT Plan for Radio System AT & Manufacturing Manufacturing & Delivery of Radio System	12 117 119	15-Mar-24	05-Apr-24	03-Oct-24	23-0ct-24	01-Aug-23	31-Jan-24	DS2150: FS 122, DS7620: FS, DS2154: FS EM1090: FS, SC1970: FS, SC190 FF, DS4380: FS EM1090: FS, SC1970: FS, SC190
DS4380 Equipment F EM1090 EM1520 EM1610	Approval of FAT Plan for Radio System FAT & Manufacturing Manufacturing & Delivery of Radio System FAT of Radio Distribution Network FAT of Radio O&M (Mobile & Portable)	12 117 119 14 14	15-Mar-24 15-Mar-24 15-Mar-24	05-Apr-24 28-Mar-24 28-Mar-24	03-Oct-24 03-Oct-24 03-Oct-24	23-Oct-24 16-Oct-24 16-Oct-24	01-Aug-23	31-Jan-24	DS2150: FS 122, DS7620: FS, DS2154: FS EM1090: FS, SC1970: FS, SC190 FF, DS4380: FS EM1090: FS, SC1970: FS, SC190 FF, DS4380: FS
DS4380 Equipment F EM1090 EM1520 EM1610 DS4390	Approval of FAT Plan for Radio System FAT & Manufacturing Manufacturing & Delivery of Radio System FAT of Radio Distribution Network FAT of Radio O&M (Mobile & Portable) Submit Radio System FAT Test Report	12 117 119 14 14 1	15-Mar-24 15-Mar-24 15-Mar-24 05-Apr-24	05-Apr-24 28-Mar-24 28-Mar-24 05-Apr-24	03-Oct-24 03-Oct-24 03-Oct-24 23-Oct-24	23-Oct-24 16-Oct-24 16-Oct-24 23-Oct-24	01-Aug-23 01-Aug-23	31-Jan-24	DS2150: FS 122, DS7620: FS, DS2154: FS EM1090: FS, SC1970: FS, SC190 FF, DS4380: FS EM1090: FS, SC1970: FS, SC190
DS4380 Equipment F EM1090 EM1520 EM1610 DS4390 Communication	Approval of FAT Plan for Radio System FAT & Manufacturing Manufacturing & Delivery of Radio System FAT of Radio Distribution Network FAT of Radio O&M (Mobile & Portable) Submit Radio System FAT Test Report	12 117 119 14 14 14 1 103	15-Mar-24 15-Mar-24 15-Mar-24 05-Apr-24 01-Mar-24	05-Apr-24 28-Mar-24 28-Mar-24 05-Apr-24 20-Mar-24	03-Oct-24 03-Oct-24 03-Oct-24 23-Oct-24 16-Sep-24	23-Oct-24 16-Oct-24 16-Oct-24 23-Oct-24 07-Oct-24	01-Aug-23 01-Aug-23 01-Oct-23	31-Jan-24	DS2150: FS 122, DS7620: FS, DS2154: FS EM1090: FS, SC1970: FS, SC196 FF, DS4380: FS EM1090: FS, SC1970: FS, SC196 FF, DS4380: FS
DS4380 Equipment F EM1090 EM1520 EM1610 DS4390 Communicat	Approval of FAT Plan for Radio System FAT & Manufacturing Manufacturing & Delivery of Radio System FAT of Radio Distribution Network FAT of Radio O&M (Mobile & Portable) Submit Radio System FAT Test Report ion System	12 117 119 14 14 1	15-Mar-24 15-Mar-24 15-Mar-24 05-Apr-24	05-Apr-24 28-Mar-24 28-Mar-24 05-Apr-24	03-Oct-24 03-Oct-24 03-Oct-24 23-Oct-24	23-Oct-24 16-Oct-24 16-Oct-24 23-Oct-24	01-Aug-23 01-Aug-23		DS2150: FS 122, DS7620: FS, DS2154: FS EM1090: FS, SC1970: FS, SC196 FF, DS4380: FS EM1090: FS, SC1970: FS, SC196 FF, DS4380: FS
DS4380 Equipment F EM1090 EM1520 EM1610 DS4390 Communication Equipment F	Approval of FAT Plan for Radio System FAT & Manufacturing Manufacturing & Delivery of Radio System FAT of Radio Distribution Network FAT of Radio O&M (Mobile & Portable) Submit Radio System FAT Test Report ion System FAT & Manufacturing	12 117 119 14 14 14 1 103 103	15-Mar-24 15-Mar-24 15-Mar-24 05-Apr-24 01-Mar-24	05-Apr-24 28-Mar-24 28-Mar-24 05-Apr-24 20-Mar-24	03-Oct-24 03-Oct-24 03-Oct-24 23-Oct-24 16-Sep-24	23-Oct-24 16-Oct-24 16-Oct-24 23-Oct-24 07-Oct-24	01-Aug-23 01-Aug-23 01-Oct-23 01-Oct-23		DS2150: FS 122, DS7620: FS, DS2154: FS EM1090: FS, SC1970: FS, SC196 FF, DS4380: FS EM1090: FS, SC1970: FS, SC196 FF, DS4380: FS EM1610: FS 6, EM1520: FS 6 DS2350: FS 144, DS7630: FS,

Critical Activity

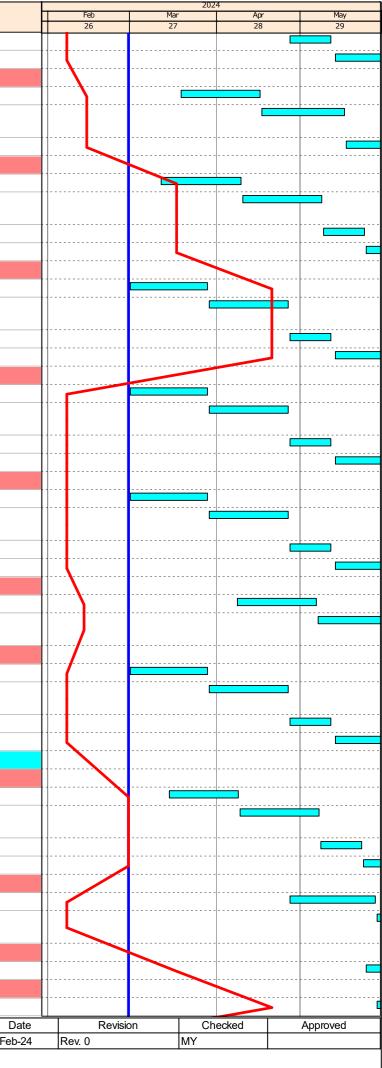




Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
Detection S	ystem	78	01-Mar-24	03-Jun-24	11-May-24	13-Aug-24			
FAT Plan St	ubmission	66	01-Mar-24	20-May-24	11-May-24	30-Jul-24		Í	
DS4450	Submission of Detection System FAT Plan	18	01-Mar-24	21-Mar-24	11-May-24	01-Jun-24			DS2232: FS
DS4460	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	24	22-Mar-24	19-Apr-24	03-Jun-24	02-Jul-24			DS4450: FS
DS4470	Resubmission of FAT Plan for Detection System	12	20-Apr-24	04-May-24	03-Jul-24	16-Jul-24			DS4460: FS
DS4480	Approval of FAT Plan for Detection System	12	06-May-24	20-May-24	17-Jul-24	30-Jul-24			DS4470: FS, SC2080: FF
Equipment	FAT & Manufacturing	14	21-May-24	03-Jun-24	31-Jul-24	13-Aug-24			
EM1530	FAT of Detection System	14	21-May-24	03-Jun-24	31-Jul-24	13-Aug-24			DS4480: FS, SC2090: FF, EM110 FS, SC2100: FS
Power Distr	ribution System	89	01-Mar-24	31-May-24	13-May-24	12-Aug-24	01-Dec-23		
Equipment	Manufacturing	89	01-Mar-24	31-May-24	13-May-24	12-Aug-24	01-Dec-23		
EM1620	Manufacturing & Delivery of Power Distribution System Equipment	89	01-Mar-24	31-May-24	13-May-24	12-Aug-24	01-Dec-23		SC2470: FF, DS7650: FS, DS259 FS
Governmen	nt Optical Fibre System	105	01-Mar-24	31-May-24	20-Aug-24	19-Nov-24	01-Dec-23		
Equipment	Manufacturing	105	01-Mar-24	31-May-24	20-Aug-24	19-Nov-24	01-Dec-23		
EM1630		105	01-Mar-24	31-May-24	20-Aug-24	19-Nov-24	01-Dec-23		DS2650: FS 200, SC2560: FF, DS7660: FS
Operation F	acilities	81	01-Mar-24	06-Jun-24	22-May-24	26-Aug-24			
FAT Plan S	ubmission	81	01-Mar-24	06-Jun-24	22-May-24	26-Aug-24			
DS4600	Submission of Operation Facility FAT Plan	24	01-Mar-24	28-Mar-24	, 22-May-24	19-Jun-24			DS2532: FS
DS4610	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Mar-24	26-Apr-24	20-Jun-24	18-Jul-24			DS4600: FS
DS4620	Resubmission of FAT Plan for Operation Facility	12	27-Apr-24	11-May-24	19-Jul-24	01-Aug-24			DS4610: FS
DS4630	Approval of FAT Plan for Operation Facility	21	13-May-24	06-Jun-24	02-Aug-24	26-Aug-24			DS4620: FS, SC2650: FF
Speed Enfor	rcement System	83	01-Mar-24	10-Jun-24	10-Jul-26	18-Oct-26			
FAT Plan St		72	01-Mar-24	27-May-24	10-Jul-26	03-Oct-26			
DS4670	Submission of SES Bench Test Plan	24	01-Mar-24	28-Mar-24	10-Jul-26	06-Aug-26			DS4650: FS
DS4690	Comment of SES Bench Test Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Mar-24	26-Apr-24	07-Aug-26	03-Sep-26			DS4670: FS
DS4710	Resubmission of SES Bench Test Plan	12	27-Apr-24	11-May-24	04-Sep-26	17-Sep-26			DS4690: FS
DS4720	Approval of SES Bench Test Plan	12	13-May-24	, 27-May-24	18-Sep-26	03-Oct-26			DS4710: FS
	FAT & Manufacturing	14	28-May-24	, 10-Jun-24	05-Oct-26	18-0ct-26			
	SEC System Bench Test	14	28-May-24	10-Jun-24	05-Oct-26	18-Oct-26			EM1570: FS 60, DS4720: FS
Manual Fall	back Control System	100	01-Mar-24	28-Jun-24	11-Aug-24	08-Jan-25	27-Jan-24		
FAT Plan S	ubmission	12			<u> </u>		27-Jan-24	15-Feb-24	
DS4780	Approval of FAT Plan for Manual Fallback Control System	12					27-Jan-24	15-Feb-24	DS4770: FS, SC2210: FF
	FAT & Manufacturing	99	01-Mar-24	28-Jun-24	11-Aug-24	08-Jan-25			
EM1540	FAT of Manual Fallback Control System	30	01-Mar-24	30-Mar-24	11-Aug-24	09-Sep-24			DS4780: FS, SC2220: FF, EM164 FS, DS7690: FS
EM1110	Post-FAT Configuration of Manual Fallback Control System	90	31-Mar-24	28-Jun-24	11-Oct-24	08-Jan-25			EM1540: FS, DS4790: FF, SC220 FF
DS4790	Submit Manual Fallback Control System FAT Test Report	1	06-Apr-24	06-Apr-24	16-Sep-24	16-Sep-24			EM1540: FS 6
SCT Plan Su		93	01-Mar-24	21-Jun-24	27-Aug-24	22-Mar-25			
Central Syst	tem	24	29-Apr-24	28-May-24	02-Dec-24	30-Dec-24			
DS2940	Submission of Central System SCT Plan	24	29-Apr-24	28-May-24	02-Dec-24	30-Dec-24			DS4340: FS
	ation System	84	01-Mar-24	11-Jun-24	24-0ct-24	14-Mar-25			
DS3020	Submission of Communication System SCT Plan	24	01-Mar-24	28-Mar-24	24-0ct-24	20-Nov-24			EM1040: FS
DS3030	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Mar-24	26-Apr-24	31-Dec-24	28-Jan-25			DS3020: FS
DS3040	Resubmission of SCT Plan for Communication System	12	27-Apr-24	11-May-24	01-Feb-25	14-Feb-25			DS3030: FS
DS3050	Approval of SCT Plan for Communication System	24	13-May-24	11-Jun-24	15-Feb-25	14-Mar-25			DS3040: FS, SC1340: FF
CCTV Syste	050 Approval of SCT Plan for Communication System		01-Mar-24	11-Jun-24	03-Sep-24	09-Jan-25			
DS3060	Submission of CCTV System SCT Plan	84 24	01-Mar-24	28-Mar-24	03-Sep-24	02-Oct-24			EM1050: FS
DS3070	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Mar-24	26-Apr-24	30-Oct-24	26-Nov-24			DS3060: FS
	Actua	aining Work 🔶 al Work al Activity	♦ Milestone	3					Page 7 of 10



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
DS3080	Resubmission of SCT Plan for CCTV System	12	27-Apr-24	11-May-24	27-Nov-24	10-Dec-24			DS3070: FS
DS3090	Approval of SCT Plan for CCTV System	24	13-May-24	11-Jun-24	11-Dec-24	09-Jan-25			DS3080: FS, SC1460: FF
PABX Syster		60	19-Mar-24	30-May-24	18-Oct-24	12-Feb-25			
DS3100	Submission of PABX System SCT Plan	24	19-Mar-24	16-Apr-24	18-0ct-24	14-Nov-24			EM1060: FS
DS3110	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	17-Apr-24	16-May-24	28-Dec-24	25-Jan-25			DS3100: FS
DS3120	Resubmission of SCT Plan for PABX System	12	17-May-24	30-May-24	27-Jan-25	12-Feb-25			DS3110: FS
ET System	S3140 Submission of ET System SCT Plan		12-Mar-24	21-Jun-24	17-Sep-24	11-Jan-25			
DS3140	Submission of ET System SCT Plan	24	12-Mar-24	09-Apr-24	17-Sep-24	17-Oct-24			EM1070: FS
DS3150	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	10-Apr-24	08-May-24	01-Nov-24	28-Nov-24			DS3140: FS
DS3160	Resubmission of SCT Plan for ET System	12	09-May-24	23-May-24	29-Nov-24	12-Dec-24			DS3150: FS
DS3170	Approval of SCT Plan for ET System	24	24-May-24	21-Jun-24	13-Dec-24	11-Jan-25			DS3160: FS, SC1730: FF
PA System		84	01-Mar-24	11-Jun-24	03-Oct-24	12-Feb-25			
DS3180	Submission of PA System SCT Plan	24	01-Mar-24	28-Mar-24	03-Oct-24	31-Oct-24			EM1080: FS
DS3190	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Mar-24	26-Apr-24	29-Nov-24	27-Dec-24			DS3180: FS
DS3200	Resubmission of SCT Plan for PA System	12	27-Apr-24	11-May-24	28-Dec-24	11-Jan-25			DS3190: FS
DS3210	Approval of SCT Plan for PA System	24	13-May-24	11-Jun-24	13-Jan-25	12-Feb-25			DS3200: FS, SC1850: FF
Radio Syster		84	01-Mar-24	11-Jun-24	27-Aug-24	08-Mar-25			
DS3220	Submission of Radio System SCT Plan	24	01-Mar-24	28-Mar-24	27-Aug-24	24-Sep-24			EM1090: SS 30
DS3230	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Mar-24	26-Apr-24	24-Dec-24	22-Jan-25			DS3220: FS
DS3240	Resubmission of SCT Plan for Radio System	12	27-Apr-24	11-May-24	23-Jan-25	08-Feb-25			DS3230: FS
DS3250	Approval of SCT Plan for Radio System	24	13-May-24	11-Jun-24	10-Feb-25	08-Mar-25			DS3240: FS, SC1980: FF
Detection Sy		84	01-Mar-24	11-Jun-24	09-Sep-24	17-Jan-25			
DS3260	Submission of Detection System SCT Plan	24	01-Mar-24	28-Mar-24	09-Sep-24	08-Oct-24			EM1100: FS
DS3270	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Mar-24	26-Apr-24	07-Nov-24	04-Dec-24			DS3260: FS
DS3280	Resubmission of SCT Plan for Detection System	12	27-Apr-24	11-May-24	05-Dec-24	18-Dec-24			DS3270: FS
DS3290	Approval of SCT Plan for Detection System	24	13-May-24	11-Jun-24	19-Dec-24	17-Jan-25			DS3280: FS, SC2110: FF
Manual Fallb	back Control System	48	08-Apr-24	04-Jun-24	17-Sep-24	28-Jan-25			
DS3300	Submission of Manual Fallback Control System SCT Plan	24	08-Apr-24	06-May-24	17-Sep-24	17-Oct-24			DS4790: FS
DS3310	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	07-May-24	04-Jun-24	31-Dec-24	28-Jan-25			DS3300: FS
Speed Enfor	rcement System	84	01-Mar-24	11-Jun-24	30-Nov-24	22-Mar-25			
DS3380	Submission of Speed Enforcement System SCT Plan	24	01-Mar-24	28-Mar-24	30-Nov-24	28-Dec-24			EM1130: FS
DS3390	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Mar-24	26-Apr-24	09-Jan-25	08-Feb-25			DS3380: FS
DS3400	Resubmission of SCT Plan for Speed Enforcement System	12	27-Apr-24	11-May-24	10-Feb-25	22-Feb-25			DS3390: FS
DS3410	Approval of SCT Plan for Speed Enforcement System	24	13-May-24	11-Jun-24	24-Feb-25	22-Mar-25			DS3400: FS, SC2370: FF
SAT Plan Sub	omissions	84	15-Mar-24	25-Jun-24	18-Oct-24	13-Mar-25			
Communica	tion System	80	15-Mar-24	20-Jun-24	07-Nov-24	13-Feb-25			
DS3580	Submission of Communication System SAT Plan	20	15-Mar-24	08-Apr-24	07-Nov-24	29-Nov-24			DS3020: SS 12
DS3590	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	09-Apr-24	07-May-24	30-Nov-24	28-Dec-24			DS3580: FS
DS3600	Resubmission of SAT Plan for Communication System	12	08-May-24	22-May-24	30-Dec-24	13-Jan-25			DS3590: FS
DS3610	Approval of SAT Plan for Communication System	24	23-May-24	20-Jun-24	14-Jan-25	13-Feb-25			DS3600: FS, SC1350: FF
CCTV Syste		48	27-Apr-24	25-Jun-24	01-Nov-24	27-Dec-24			
DS3620	Submission of CCTV System SAT Plan	24	27-Apr-24	27-May-24	01-Nov-24	28-Nov-24			DS3060: FS 24
DS3630	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	28-May-24	25-Jun-24	29-Nov-24	27-Dec-24			DS3620: FS
ET System		24	24-May-24	21-Jun-24	29-Nov-24	27-Dec-24			
DS3700	Submission of ET System SAT Plan	24	24-May-24	21-Jun-24	29-Nov-24	27-Dec-24			DS3140: FS 36
PA System		24	28-May-24	25-Jun-24	28-Dec-24	25-Jan-25			
DS3740	Submission of PA System SAT Plan	24	28-May-24	25-Jun-24	28-Dec-24	25-Jan-25			DS3180: FS 48
	Actua	aining Work 🔶 al Work al Activity	♦ Milestone	•					29-Fel Page 8 of 10



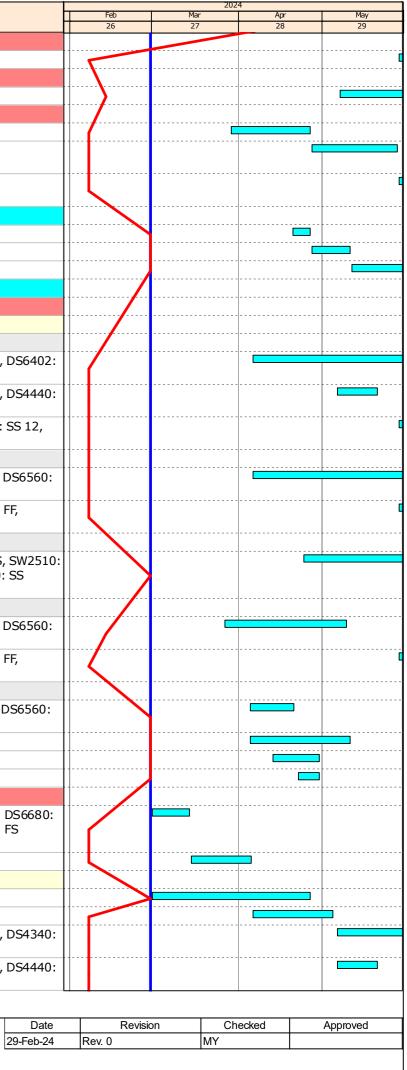
	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
Radio System	1	24	28-May-24	25-Jun-24	22-Nov-24	19-Dec-24			
DS3780	Submission of Radio System SAT Plan	24	28-May-24	25-Jun-24	22-Nov-24	19-Dec-24			DS3220: FS 48
Manual Fallba	ack Control System	24	07-May-24	04-Jun-24	18-Oct-24	14-Nov-24			
DS3860	Submission of Manual Fallback Control System SAT Plan	24	07-May-24	04-Jun-24	18-Oct-24	14-Nov-24			DS3300: FS
Speed Enford	ement System	60	29-Mar-24	11-Jun-24	30-Dec-24	13-Mar-25			
DS3940	Submission of Speed Enforcement System Reliability Test Plan	24	29-Mar-24	26-Apr-24	30-Dec-24	27-Jan-25			DS3380: FS
DS3950	Comment on Reliability Test Plan/ Workshops (System Briefing & Comment Discussion)	24	27-Apr-24	27-May-24	28-Jan-25	27-Feb-25			DS3940: FS
DS3960	Resubmission of Reliability Test Plan for Speed Enforcement System	12	28-May-24	11-Jun-24	28-Feb-25	13-Mar-25			DS3950: FS
Training Docu	ment & O&M Manual Submission for T2/TKOLTT TCSS	65	20-Apr-24	09-Jul-24	06-May-25	22-Jul-25			
DS3980	Submit Document for System Description	6	20-Apr-24	26-Apr-24	06-May-25	12-May-25			DS3580: SS 30
DS4010	Submit System Administration Manual	11	27-Apr-24	10-May-24	13-May-25	24-May-25			DS3980: FS
DS4020	Submit Training Manual	48	11-May-24	09-Jul-24	26-May-25	22-Jul-25			DS4010: FS
Site Installatio	n and Testing & Commissioning	235	01-Mar-24	09-Dec-24	23-May-24	31-Oct-26			
Installation &	Testing Related to Stage 2 of Works	213	27-Mar-24	09-Dec-24	28-Jun-24	31-Oct-26			
Installation		213	27-Mar-24	09-Dec-24	28-Jun-24	31-Oct-26			
Portion 4 -	FKO-LTT (LT Interchange)	78	06-Apr-24	10-Jul-24	28-Jun-24	16-Jan-25		_	
	Install Cable Containments	48	06-Apr-24	03-Jun-24	28-Jun-24	23-Aug-24			SW1030: FS, DS6560: FS, DS64 FS
SW1960	Install Equipment in Kiosk C	12	06-May-24	20-May-24	06-Nov-24	19-Nov-24			SW1050: FS, DS4340: FS, DS44 FS
SW1940	Install CCTV Camera	36	28-May-24	10-Jul-24	04-Dec-24	16-Jan-25			SW1040: SS 12, SW1930: SS 12 DS4090: FS, DS6440: FS
Portion 1 - S	South Apron Up to SUS	66	06-Apr-24	25-Jun-24	03-Jul-24	17-Sep-24			
SW2000	Install Cable Containments - the 1st Section	48	06-Apr-24	03-Jun-24	03-Jul-24	27-Aug-24			SW1220: FS, SC2480: FF, DS656 FS, DS6402: FS
SW2010	Install CCTV Camera	24	28-May-24	25-Jun-24	21-Aug-24	17-Sep-24			SW2000: SS 42, SC1470: FF, DS4090: FS, DS6440: FS
Portion 2 -	Funnel Section, Service Gallery, WVB & EVB	190	24-Apr-24	09-Dec-24	09-Sep-24	31-Oct-26			
SW2080	Install Cable Containments	190	24-Apr-24	09-Dec-24	09-Sep-24	31-Oct-26			SW2300: SS, SW2400: SS, SW2 SS, SW2600: SS, SW2720: SS
Portion 3 - 0	CKL Branch Tunnel in TKO-LTT Site	79	27-Mar-24	02-Jul-24	28-Jan-25	20-Mar-25			
	Install Cable Containments	36	27-Mar-24	09-May-24	07-Feb-25	20-Mar-25			SW1860: FS, SC2480: FF, DS656 FS, DS6402: FS
SW2220	Install CCTV Camera	29	28-May-24	02-Jul-24	28-Jan-25	05-Mar-25			SW1860: SS 12, SC1470: FF, DS4090: FS, DS6440: FS
Underpass	S21	30	05-Apr-24	10-May-24	26-Apr-25	03-Jun-25			
SW2260	Install Cable Containment	14	05-Apr-24	20-Apr-24	26-Apr-25	14-May-25			AC1040: SS, SC2480: FF, DS656 FS, DS6402: FS
SW2280	Laying of Leaky Cable	30	05-Apr-24	10-May-24	26-Apr-25	03-Jun-25			SW2260: SS
	Laying of Power Cable From TCSS Cabinet in T2 Area	14	13-Apr-24	29-Apr-24	17-May-25	03-Jun-25			SW2260: SS 7
	Install YAGI Antenna	7	22-Apr-24	29-Apr-24	26-May-25	03-Jun-25			SW2260: FS
	CO-LTT (LT Interchange)	108	01-Mar-24	10-Jul-24	23-May-24	19-Nov-24			
SW1020	Inpect Civil Provisions & Submit Inspection Report	12	01-Mar-24	14-Mar-24	23-May-24	05-Jun-24			AC1030: SS, DS6600: FS, DS66 FS, DS6760: FS, DS6840: FS
SW1030	Rectify Civil Provision Defects by Others	18	15-Mar-24	05-Apr-24	06-Jun-24	27-Jun-24			SW1020: FS
		108	01-Mar-24	10-Jul-24	28-Jun-24	19-Nov-24			
SW1040	Install Cable Containments	48	01-Mar-24	26-Apr-24	28-Jun-24	23-Aug-24			DS6400: FS, DS6540: FS
SW1040	Install Equipment Racks	24	06-Apr-24	04-May-24	07-Sep-24	07-Oct-24			SW1030: FS
SW1050 SW1100	Install Server Equipment	36	06-May-24	18-Jun-24	08-Oct-24	19-Nov-24			SW1050: FS, DS4440: FS, DS43 FS
SW1120	Install Equipment in Kiosk C	12	06-May-24	20-May-24	06-Nov-24	19-Nov-24			SW1050: FS, DS4340: FS, DS44 FS



Remaining Work

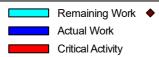
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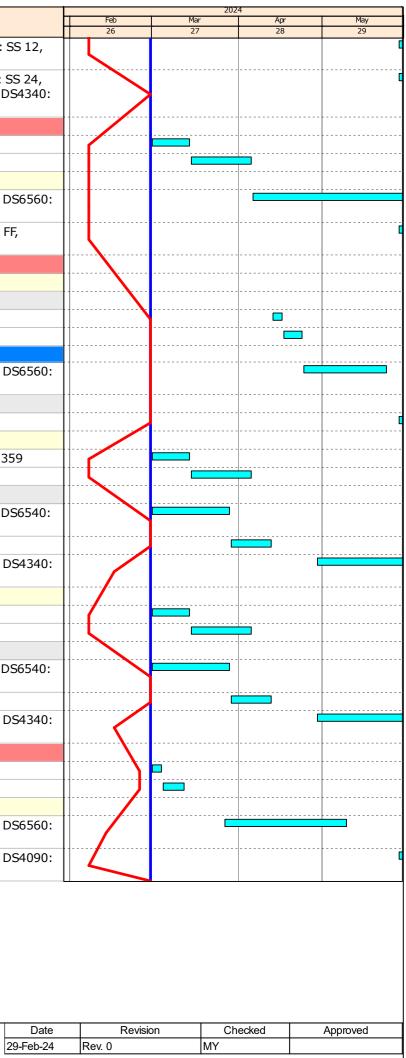


Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
SW1060	Install CCTV Camera	36	28-May-24	10-Jul-24	10-Sep-24	24-Oct-24			SW1040: SS 12, SW1930: SS 12 DS4090: FS, DS6440: FS
SW1090	Install Video Wall Equipment (Administration Building)	21	28-May-24	21-Jun-24	26-Oct-24	19-Nov-24			SW1040: FS 24, SW1930: SS 24 SC1330: FF, DS4440: FS, DS434 FS, DS4440: FF
Portion 1 - So	outh Apron Up to SUS	96	01-Mar-24	25-Jun-24	27-May-24	17-Sep-24			
SW1210	Inspect Civil Provisions & Submit Inspection Report	12	01-Mar-24	14-Mar-24	27-May-24	08-Jun-24			AC1000: SS
SW1220	Rectify Civil Provision Defects by Others	18	15-Mar-24	05-Apr-24	11-Jun-24	02-Jul-24			SW1210: FS
		66	06-Apr-24	25-Jun-24	03-Jul-24	17-Sep-24			
SW1230	Install Cable Containments - the 1st Section	48	06-Apr-24	03-Jun-24	03-Jul-24	27-Aug-24			SW1220: FS, SC2480: FF, DS650 FS, DS6402: FS
SW1240	Install CCTV Camera	24	28-May-24	25-Jun-24	21-Aug-24	17-Sep-24			SW1230: SS 42, SC1470: FF, DS4090: FS, DS6440: FS
Portion 2 - Tu	nnel Section, Service Gallery, WVB & EVB	85	01-Mar-24	12-Jun-24	29-Aug-24	31-Oct-26			
Tunnel Sect	on	39	13-Apr-24	30-May-24	29-Aug-24	17-0ct-24			
	tion - CH 7+100 to CH 7+600	33	13-Apr-24	23-May-24	29-Aug-24	08-Oct-24			
SW2880	Inspect Civil Provisions & Submit Inspection Report	3	13-Apr-24	16-Apr-24	29-Aug-24	31-Aug-24			AC1060: SS
	Rectify Civil Provision Defects by Others	6	17-Apr-24	· ·	02-Sep-24				SW2880: FS
Installation		24	24-Apr-24	23-May-24	09-Sep-24	08-Oct-24			
	Install Cable Containment	24	24-Apr-24	23-May-24		08-Oct-24			SC2480: FF, SW2890: FS, DS650 FS, DS6402: FS
	tion - CH 7+600 to CH 8+100	3	28-May-24	30-May-24	15-Oct-24	17-0ct-24			
	Inspect Civil Provisions & Submit Inspection Report	3	28-May-24	-	15-Oct-24	17-0ct-24			AC1070: SS
	tion Building	85	01-Mar-24	12-Jun-24	16-Oct-24	31-Oct-26			
SW1360	Inspect Civil Provisions & Submit Inspection Report	12	01-Mar-24	14-Mar-24	24-Sep-26	09-Oct-26			AC1010: SS, KD1010: FS 359
SW1370	Rectify Civil Provision Defects by Others	18	15-Mar-24	05-Apr-24	10-Oct-26	31-Oct-26			SW1360: FS
Installation		85	01-Mar-24	12-Jun-24	16-0ct-24	20-Jan-25			
SW1650	Install Cable Containments	24	01-Mar-24	28-Mar-24	16-0ct-24	12-Nov-24			SC2480: FF, DS6400: FS, DS654 FS
SW1660	Position Equipment Rack	12	29-Mar-24	12-Apr-24	23-Nov-24	06-Dec-24			SW1650: FS
SW1670	Install Network Equipment	36	29-Apr-24	12-Jun-24	07-Dec-24	20-Jan-25			SW1660: FS, SC1330: FF, DS434 FS, DS4440: FS
East Ventila	tion Building	85	01-Mar-24	12-Jun-24	16-Oct-24	31-Oct-26			
SW2960	Inspect Civil Provisions & Submit Inspection Report	12	01-Mar-24	14-Mar-24	24-Sep-26	09-Oct-26			AC1010: SS, KD1010: FS
SW2970	Rectify Civil Provision Defects by Others	18	15-Mar-24	05-Apr-24	10-Oct-26	31-Oct-26			SW2960: FS
Installation	Works	85	01-Mar-24	12-Jun-24	16-Oct-24	20-Jan-25			
SW1750	Install Cable Containments	24	01-Mar-24	28-Mar-24	16-Oct-24	12-Nov-24			SC2480: FF, DS6400: FS, DS654 FS
SW1760	Position Equipment Rack	12	29-Mar-24	12-Apr-24	23-Nov-24	06-Dec-24			SW1750: FS
SW1770	Install Network Equipment	36	29-Apr-24	12-Jun-24	07-Dec-24	20-Jan-25			SW1760: FS, SC1330: FF, DS434 FS, DS4440: FS
Portion 3 - Cl	L Branch Tunnel in TKO-LTT Site	101	01-Mar-24	02-Jul-24	04-Jan-25	14-Mar-25			
SW1850	Inspect Civil Provisions & Submit Inspection Report	3	01-Mar-24	04-Mar-24	04-Jan-25	07-Jan-25			AC1020: SS
SW1860	Rectify Civil Provision Defects by Others	7	05-Mar-24	12-Mar-24	08-Jan-25	15-Jan-25			SW1850: FS
	Vorks	79	27-Mar-24	02-Jul-24	16-Jan-25	14-Mar-25			
SW1890	Install Cable Containments	36	27-Mar-24	09-May-24	01-Feb-25	14-Mar-25			SW1860: FS, SC2480: FF, DS650 FS, DS6402: FS
SW1870	Install CCTV Camera	29	28-May-24	02-Jul-24	16-Jan-25	21-Feb-25			SW1860: FS, SC1470: FF, DS409 FS, DS6440: FS





GTECH Services (Hong Kong) Limited



APPENDIX O WASTE GENERATED IN THE REPORTING MONTH



Name of Department: CEDD

Monthly Summary Waste Flow Table for 2024 (KT)

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Contract No. ED/2018/04

	Ac	tual Quantiti	es of Inert C	Actual	Quantities of	f C&D Waste	s Generated I	Monthly			
Month	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	10.162	0.000	0.000	10.162	0.000	0.000	131.520	0.600	0.000	0.000	0.101
February	6.052	0.000	0.000	6.052	0.000	0.000	49.890	0.660	0.000	0.000	0.104
March	0.888	0.000	0.000	0.888	0.000	0.000	4.000	0.000	0.000	0.000	0.089
April											
May											
June											
Sub-total	17.102	0.000	0.000	17.102	0.000	0.000	185.410	1.260	0.000	0.000	0.294
July											
August											
September											
October											
November											
December											
Total	17.102	0.000	0.000	17.102	0.000	0.000	185.410	1.260	0.000	0.000	0.294

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).

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		Actual Quan	tities of Inert C&	D Materials Gener	ated Monthly				Actual Quar	ntities of C&D W	Vaste Generated Mo	nthly		
Month	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)	(in '000m ³)
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														
May-24														
Jun-24														
Sub-total														
Jul-24														
Aug-24														
Sep-24														
Oct-24														
Nov-24														
Dec-24														
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Monthly Summary Waste Flow Table For 2024

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.