Civil Engineering and Development Department

Trunk Road T2

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

February 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

CINOTECH CONSULTANTS LTD

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



Ref.: CEDKTDT2EM00_0_0590L.24

11 March 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 (February 2024) for EP-451/2013

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for February 2024 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 11 March 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

Q:\Projects\CEDKTDT2EM00\02 Proj_Mgt\02 Corr\CEDKTDT2EM00_0_0590L.24.doc

Ramboll Hong Kong Limited 英環香港有限公司

21/F, BEA Harbour View Centre, 56 Gloucester Road, Wan Chai, Hong Kong Tel: 852.3465 2888 Fax: 852.3465 2899 www.ramboll.com

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	
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 Department Monitoring Methodology Results and Observations Comparison of EM&A Result with EIA Prediction	11 14
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	
	Monitoring Requirement	
5	MARINE ECOLOGY	
6	FISHERIES	
7	LANDSCAPE AND VISUAL	21
8	CULTURAL HERITAGE	24
9	WASTE MANAGEMENT	

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 48th 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 February 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 CP TBM Excavation 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 Sub-sea E&M Bracket installation Sub-sea E&M Bracket drilling Eastbound cavern excavation 		
ED/2020/03	Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	N/A		

Notes:

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

N/A: Not applicable

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

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	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	<ul><li><i>Air Quality</i></li><li>Water spraying regularly on construction site area to avoid dust</li></ul>
Works for Developments at	<ul> <li>Excavated dusty materials were covered by impervious sheets.</li> </ul>
South Apron	Noise
	<ul> <li>Air compressor was operated with door closed and have valid noise labels.</li> <li>Use of Quality Powered Mechanical Equipment (QPME)</li> <li>Erecting noise barriers on site to minimize noise impact generated from breaking activities.</li> </ul>
	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	N/A
System (TCSS)	
and Associated	
Works ⁽¹⁾	
Notes:	

#### 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 (February 2024) and the investigation results and/or follow-up actions:

Air Quality Monitoring

- No 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/Prosecution in the Reporting Month					
Event	Event Details		Follow-up/ Remedial Actions	Status/	
Event	Number	<b>Brief Description</b>		Remarks	
Complaints	0				
Received	0	-	-	-	
Notification of					
Summons and	0				
Prosecutions	0	-	-	-	
Received					
Public					
Engagement	0	-	-	-	
Activities					

#### 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 Reporting Period

Contract No. and Project Title	Site Activities (March 2024)	Key Environmental Issues
ED/2018/04 - Trunk	1) West Ventilation Building RC Structure,	
Road T2 and	ABWF, E&M	
Infrastructure Works	2) Launching Shaft / Cut & Cover RC	
for Developments at	Structure	
South Apron	3) Westbound TBM Tunnelling	$(\mathbf{A})/(\mathbf{P})/(\mathbf{C})/(\mathbf{D})$
	4) Eastbound TBM Tunnelling	(A) / (B) / (C) / (D)
	5) EB Service Gallery Installation	
	6) WB Service Gallery Installation	
	7) CP Tympanum Construction	
	8) CP TBM Excavation	

	9) Cross Passage Finishing	
	10) Sub-sea Corbel Construction	
	11) Sub-sea Crown Fire Board	
	12) Sub-sea Road Level Fire Board	
	13) Sub-sea OHVD Soffit Fire Board	
	14) Sub-sea Parapet Installation	
	15) SUS Remaining Internal Wall	
	16) SUS Fire Board Road Level	
	17) Tunnel Segment delivery	
	18) Sub-sea OHVD Slab Installation	
	19) MiMEP Installation	
	20) Sub-sea E&M Bracket installation	
	21) Sub-sea E&M installation	
	22) Sub-sea E&M drilling	
	23) Eastbound cavern excavation	
ED/2020/03 - Trunk		
Road T2 - Traffic		
Control And	1) WVB Cabinets lifting	
Surveillance System	1) w v D Caulicis intilig	
(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:

Monitoring Station ID	Review Status	Follow-up Action/ Recommendation
KTD 2d	ET has reviewed the status and location	
KER1	of KER1, KTD 1, KTD2d, CKL1 and CKL2. To conclude, the environmental	
KTD 1	monitoring conducted at KER1, KTD 1, KTD2d, CKL 1 and CKL 2 are appropriate, and the monitoring results	N/A
CKL 1	reflect how the sensitive receiver(s)	

Table V	Summary	Table for	<b>Review</b>	of Status and	Location	of Monitoring Stations
	Summary		ILUVIUW V	or status and	Lucation	

CKL 2	is/are impacted by the construction 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 3 27th 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 48th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in February 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)

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

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

Table 1.1Key Project Contacts

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	• West Ventilation Building RC Structure,
	Infrastructure Works for	ABWF, E&M
	Developments at South	• Launching Shaft / Cut & Cover RC
	Apron	Structure
		<ul> <li>Westbound TBM Tunnelling</li> </ul>
		<ul> <li>Eastbound TBM Tunnelling</li> </ul>
		• EB Service Gallery Installation
		WB Service Gallery Installation
		<ul> <li>CP Tympanum Construction</li> </ul>
		CP TBM Excavation
		<ul> <li>Cross Passage Finishing</li> </ul>
		<ul> <li>Sub-sea Corbel Construction</li> </ul>
		<ul> <li>Sub-sea Crown Fire Board</li> </ul>
		<ul> <li>Sub-sea Road Level Fire Board</li> </ul>
		<ul> <li>Sub-sea OHVD Soffit Fire Board</li> </ul>
		Sub-sea Parapet Installation
		<ul> <li>SUS Remaining Internal Wall</li> </ul>
		Sub-sea OHVD Slab Installation

		<ul> <li>SUS Fire Board installation</li> <li>Tunnel Segment delivery</li> <li>MiMEP Module Installation</li> <li>Sub-sea E&amp;M Bracket installation</li> <li>Sub-sea E&amp;M Bracket drilling</li> <li>Eastbound cavern excavation</li> </ul>
ED/2020/03	Trunk Road T2 – Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	N/A

Notes:

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

N/A: Not applicable

- 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 February 2024.

#### **Status of Environmental Licensing and Permitting**

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

Contract	Permit / License No.	Valid Period		Status	
No.	r ernnt / License No.	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	
ED/2020/03	Ref. No.: 483143	15 Aug 2022	N/A	Valid	
Billing Account for Construction Waste Disposal					
ED/2018/04	A/C No.: 7036016	09 Dec 2019	N/A	Valid	

#### Table 1.3 Summary of Environmental License and Permit

Trunk Road T2 Monthly EM&A Report – February 2024

Wonting EWICA Report - February 202				
Contract	Permit / License No.	Valid Period		Status
No.	Termit / Excense 10.	From	То	Status
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 Launching Shaft and Barging Point): GW- RE1513-23	7 Dec 2023	21 Feb 2024	Expired on 21 Feb 2024
	CNP No. (For Portion Q): GW- RE1557-23	21 Dec 2023	20 Apr 2024	Valid
ED/2018/04	CNP No. (For Depressed Road): GW-RE0037-24	26 Jan 2024	28 Feb 2024	Expired on 28 Feb 2024
	CNP No. (For Launching Shaft and Barging Point): GW- RE0187-24	22 Feb 2024	21 Jun 2024	Valid
	CNP No. (For Depressed Road): GW-RE0160-24	28 Feb 2024	29 Apr 2024	Valid
Wastewater I	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
	WT00036228-2020 (For Launching Shaft)	10 Nov 2021	31 Jul 2025	Valid
Chemical Waste Producer License				
ED/2018/04	WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid
Marine Dum	ping 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.

<b>Monitoring Stations</b>	Location	
KTD1Centre 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,	5	
	11 v 5 Sumptor	1956, 10595, 1316, 5280)	5	
Calibrator TISC		TISCH Model: TE-5025A (Serial no. 3864)	1	
	Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1	
	wind Anemonieter	(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 ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

#### Maintenance/Calibration

- 2.13 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 No 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 no 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)	<ul> <li>Project related construction activities (i.e., Loading and unloading of C&amp;D wastes, drilling, crushing of material);</li> <li>Vehicle movement in the site;</li> </ul>
KER 1 – Future Residential Development at Kerry Godown	<ul> <li>Construction activities at the nearby construction sites of New Acute Hospital; and,</li> <li>Road traffic along Shing Fung Road, Shing Cheong Road, Cheung Yip Street, Kai Hing Road and Kwun Tong Bypass.</li> </ul>
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	<ul> <li>Project related construction activities (i.e., Loading and unloading of C&amp;D material, crushing of material);</li> <li>Vehicle movement in the site; and,</li> <li>Non-project related construction activities (i.e excavating work, Loading and unloading of C&amp;D wastes at the nearby construction site of Additional District Cooling System at Kai Tak Development, Paul Y. Engineering.)</li> </ul>
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 (February 2024), μg/m ³
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	36.0
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A ⁽¹⁾	N/A ⁽¹⁾	94.3
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	81.8
CKL1 - Flat 121 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	117.9
CKL2 - Flat 103 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	113.8

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 KTD1 & KER1 were lower than the prediction in the EIA Report, AEIAR-174/2013 (as approved in 2013). No Action and 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**.

1 abit 5.2	requercy and raraneters of Noise Wontoring				
Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
KTD1					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**.

Equipment	Model	Quantity
	BSWA 308 (Serial no. 580287, 580238)	
Integrating Sound Lavel Mater	SVAN 957 (Serial no. 23852)	5
Integrating Sound Level Meter	SVAN 959 (Serial no. 11275)	5
	SVAN 979 (Serial no. 27189)	
	AWA6021A (Serial no.	
Calibrator	1023253,1023064)	4
Canorator	ST-120 (Serial no.,181001636)	
	SV 30A (Serial no. 10965)	

Table 3.3Noise Monitoring Equipment

## 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**.

 Table 3.4
 Other Noise Source Identified during Noise Monitoring

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

Monitoring Stations	Major Noise Source	
	Road traffic along Kai Hing Road.	
KER 1	• 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	<b>Baseline Noise Level and Noise Limit Level for Monitoring Stations</b>
-----------	---------------------------------------------------------------------------

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 (February 2024), Leq (30min) dB(A)
KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD1	74	72.1
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	74.0
CKL1 - Flat 121 Cha Kwo Ling Village	CKL4	71	73.0
CKL2 - Flat 103 Cha Kwo Ling Village	CKL5	69	74.0

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<br/>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 01, 08, 15, 22 & 29 February 2024 in the reporting month. Site inspection of the IEC was conducted on 15 February 2024. No non-compliance was observed during the site audit.
  - ED/2020/03 Site audit was conducted on 16 February 2024 in the reporting month.

#### **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
Air Quality	29 Feb 2024	Cement bags should be covered when not in used.	To be reported in the next reporting month.
Noise	N/A	There was no observation in the reporting period.	N/A
Water Quality	25 Jan 2024	Stagnant water was observed at WVB.	The stagnant water was removed.
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	25 Jan 2024	Accumulation of rubbish were observed.	The rubbish was removed.

 Table 10.1
 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
	1 Feb 2024	Drip tray should be provided for oil/chemical containers to prevent leakage. (Top of WVB)	The chemical containers were removed.
	8 Feb 2024	Waste chemical containers were observed in the WVB.	The waste chemical containers had been removed.
	8 Feb 2024	General refuses were observed at the rooftop of WVB.	The waste had been removed.
	15 Feb 2024	Drip tray should be provided to prevent chemical leakage. (OHVD).	The chemical containers had been removed.
	29 Feb 2024	Accumulation of rubbish was observed at tunnel entrance.	To be reported in the next reporting month.
	29 Feb 2024	Drip tray should be provided for chemical containers and accumulation of containers were observed.	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

• No Action and 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 (January 2024)	9 February 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<br/>next Reporting Period

Contract No. and Project Title	Site Activities (March 2024)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	<ol> <li>West Ventilation Building RC Structure, ABWF, E&amp;M</li> <li>Launching Shaft / Cut &amp; Cover RC Structure</li> <li>Westbound TBM Tunnelling</li> <li>Eastbound TBM Tunnelling</li> <li>EB Service Gallery Installation</li> <li>WB Service Gallery Installation</li> <li>WB Service Gallery Installation</li> <li>CP Tympanum Construction</li> <li>CP TBM Excavation</li> <li>Cross Passage Finishing</li> <li>Sub-sea Corbel Construction</li> <li>Sub-sea Road Level Fire Board</li> <li>Sub-sea Parapet Installation</li> <li>SUS Remaining Internal Wall</li> <li>SUS Fire Board Road Level</li> <li>Tunnel Segment delivery</li> <li>Sub-sea OHVD Slab Installation</li> <li>MiMEP Installation</li> </ol>	<ul> <li>Wheel washing bay at site exits;</li> <li>Temporary noise barriers for PMEs;</li> <li>Sedimentation tank for settling muddy water; and</li> <li>Make sure open stockpiles are covered during rainstorm.</li> </ul>

Contract No. and Project Title	Site Activities (March 2024)	Key Environmental Issues
	<ul> <li>20. Sub-sea E&amp;M Bracket installation</li> <li>21. Sub-sea E&amp;M installation</li> <li>22. Sub-sea E&amp;M drilling</li> <li>23. Eastbound cavern excavation</li> </ul>	
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	1. WVB Cabinets lifting	

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 48th 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 No Action and 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 5 (Five) ET joint weekly environmental site inspections were conducted for the Contact No. ED/2018/04 in the reporting month.
- 13.6 1 (One) 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.

#### Water Quality

• The stagnant water should be removed regularly.

#### Waste / Chemical Management

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

FIGURES


**Cinotech Consul** 

te I In

Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

Ventilation Building

Ante		1192 - 53 1192 - 53		
V)			SUM: "11." L	)'.´````
		/6 2		ť ~
	1:10000@A3		March 20	
СК		DATE DRAWN	TL	
LE CK 3 No.	1:10000@A3	DATE	TL	REV











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 (February 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Feb	2-Feb	3-Feb
				Noise		
4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb
		24-hr TSP	Noise		24-hr TSP	
11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb
				24-hr TSP Noise		
18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb
		24-hr TSP	Noise			
25-Feb	26-Feb	27-Feb	28-Feb	29-Feb		
	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 (March 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Mar	2-Mar
					24-hrs TSP	Noise
3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mai
				24-hrs TSP	Noise	
10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar
17.54	10 M	10 M	24-hrs TSP	Noise	22.14	214
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 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

### 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				

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
			Noise			
5-May	6-May	7-May	8-May	9-May	10-May	11-May
	24-hr TSP	Noise				24-hr TSP
12-May	13-May	14-May	15-May	16-May	17-May	18-May
	Noise				24-hr TSP	
19-May	20-May	21-May	22-May	23-May	24-May	25-May
				24-hr TSP	Noise	
26-May	27-May	28-May	29-May	30-May	31-May	
			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)

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	<b>*</b>		HVS
Point	$\Delta H$ (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	$\Delta W$ (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 = $43 \text{ CFM}$			
		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	

	Ori	ifice Transfer Sta	ndard Informa	ation	
Serial No.	3864	Slope, mc	0.05928	Intercept, bc	-0.03491
Last Calibration Date:	16-Jan-23	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$	] ^{1/2}
Next Calibration Date:	16-Jan-24		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x} ] \}$	$\left( Pa/760\right) x \left( 298/Ta\right) ]^{1/2} \ \text{-bc} \}  / $	mc

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	$\Delta H$ (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (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
Slope , mw = Correlation	coefficient* =		Intercept, bw = -	-0.530	2
		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	e Residential Dev	velopment at Kerry Godov	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		

	Ori	ifice Transfer Sta	ndard Informa	ation	
Serial No.	3864	Slope, mc	0.05928	Intercept, bc	-0.03491
Last Calibration Date:	16-Jan-23	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$	$]^{1/2}$
Next Calibration Date:	16-Jan-24		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x} ] \}$	$\left( Pa/760\right) x \left( 298/Ta\right) ]^{1/2} \ \text{-bc} \} \ /$	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	$\Delta W$ (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	coefficient < 0.990	<b>0.9997</b> ), check and recalibrate.	Intercept, bw	-0.272	24
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	, dag	Date: 10-Jan-24



File No. MA20003/44/0021

Project No.	KTD1 - Centre	of Excellence in	n Paediatrics (Children's H	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		

	Ori	ifice Transfer Sta	ndard Informa	ation	
Serial No.	3864	Slope, mc	0.05928	Intercept, bc	-0.03491
Last Calibration Date:	16-Jan-23	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$	$]^{1/2}$
Next Calibration Date:	16-Jan-24		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x} ] \}$	$\left( Pa/760\right) x \left( 298/Ta\right) ]^{1/2} \ \text{-bc} \} \ /$	mc

		Calibration o	f TSP Sampler		
Calibration		Orfice			HVS
Point	$\Delta H$ (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	$\Delta W$ (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 =	• ession of Y on X 0.0536 coefficient* =	0.9956	Intercept, bw	-0.316	3
*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

.



File No. MA20003/41/0022

Project No.	KTD 2D - Nez	t to the SOR Off	fice of Trunk Road T2 in I	Kai Tak Area		
Date:	10-	Jan-24	Next Due Date:	10-Mar-24	Operator:	SK
Equipment No.:	A	01-41	Model No.:	TE 5170	Serial No.	5280
-						
			Ambient Condit	ion		
Temperatu	ıre, Ta (K)	299.9	Pressure, Pa (mml	Hg)	762.1	
		0	rifice Transfer Standard	I Information		

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

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	$\Delta H$ (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (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
Slope , mw = Correlation	coefficient* =	0.9941 ), check and recalibrate. Set Point C	-	-0.454	3
From the Regres	sion Equation, the	urve, take Qstd = 43 CFM z "Y" value according to <b>mw x Qstd + bw = [$\Delta W$</b> $z$ $v x Qstd + bw )^2 x (760 / Pa) x ($			
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

15 viro	n m	ent	al	J			Di Janua	ALIBRATION UE DATE: ary 15, 2025
	Ge	rtifa	cate				tion	
			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	
	<b>QSTD</b>	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
Pa: actual baro							re, 9.2.17, page 3	
and the second se					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

# CIN@TECH 🤳

### **Certificate of Calibration - Wind Monitoring Station**

Description:	<u>Yau Lai Estate, Bik Lai House</u>	
Manufacturer:	Davis Instruments	
Model No.:	<u>Davis7440</u>	
Serial No.:	<u>MC01010A44</u>	
Equipment No.:	<u>SA-03-04</u>	
Date of Calibration	<u>18-Aug-2023</u>	
Next Due Date	<u>18-Feb-2024</u>	

### 1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.5	2.4	0.1
4.0	3.9	0.1

### 2. Performance check of Wind Direction

Wind Direction (°)		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

# CIN@TECH 🤳

### **Certificate of Calibration - Wind Monitoring Station**

<u>Yau Lai Estate, Bik Lai House</u>	
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 Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.5	1.7	-0.2
2.5	2.4	0.1
4.0	3.8	0.2

### 2. Performance check of Wind Direction

Wind Direction (°)		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 (°C) ¹	Mean Relative Humidity	Precipitation (mm) ³
	• • • • •	$(\%)^2$	• • • •
1-Feb-24	21.1	92	0.2
2-Feb-24	21.7	88	Trace
3-Feb-24	19.6	85	Trace
4-Feb-24	19.8	92	Trace
5-Feb-24	20.4	86	Trace
6-Feb-24	19.1	86	0.6
7-Feb-24	16.8	90	Trace
8-Feb-24	13.0	84	2.2
9-Feb-24	12.7	77	0.6
10-Feb-24	14.4	72	0.5
11-Feb-24	17.4	60	0.0
12-Feb-24	18.1	55	0.0
13-Feb-24	19.2	71	0.0
14-Feb-24	21.0	78	0.0
15-Feb-24	22.3	70	0.0
16-Feb-24	20.4	77	Trace
17-Feb-24	19.5	82	Trace
18-Feb-24	21.6	87	0.0
19-Feb-24	22.7	88	0.0
20-Feb-24	23.9	87	0.0
21-Feb-24	24.5	82	0.0
22-Feb-24	23.6	87	0.0
23-Feb-24	20.4	85	Trace
24-Feb-24	18.8	73	Trace
25-Feb-24	17.1	71	0.0
26-Feb-24	18.2	76	Trace
27-Feb-24	17.6	73	Trace
28-Feb-24	18.3	85	Trace
29-Feb-24	18.7	85	Trace

### Appendix D - Weather Conditions During Impact Monitoring Period

### (Reporting Month:February 2024)

**Remarks:** 

Source - Hong Kong Observatory

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

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

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
2 Feb 2024	5:00 AM	SSE	0.4
2 Feb 2024	6:00 AM	SSE	0.5
2 Feb 2024	7:00 AM	SSE	0.5
2 Feb 2024	8:00 AM	SSE	0.1
2 Feb 2024	9:00 AM	ESE	0.4
2 Feb 2024	10:00 AM	SE	0.6
2 Feb 2024	11:00 AM	S	1.1
2 Feb 2024	12:00 PM	SW	0.7
2 Feb 2024	1:00 PM	SW	1.0
2 Feb 2024	2:00 PM	SW	1.5
2 Feb 2024	3:00 PM	SW	1.5
2 Feb 2024	4:00 PM	W	2.4
2 Feb 2024	5:00 PM	W	2.7
2 Feb 2024	6:00 PM	W	2.1
2 Feb 2024	7:00 PM	WSW	1.1
2 Feb 2024	8:00 PM	SSW	1.0
2 Feb 2024	9:00 PM	WSW	2.0
2 Feb 2024	10:00 PM	WNW	2.2
2 Feb 2024	11:00 PM	W	2.0
3 Feb 2024	12:00 AM	WSW	0.9
3 Feb 2024	1:00 AM	SW	1.6
3 Feb 2024	2:00 AM	SW	1.5
3 Feb 2024	3:00 AM	S	0.9
3 Feb 2024	4:00 AM	S	0.5
3 Feb 2024	5:00 AM	S	0.5
3 Feb 2024	6:00 AM	SSW	0.9
3 Feb 2024	7:00 AM	S	0.7
3 Feb 2024	8:00 AM	S	0.2
3 Feb 2024	9:00 AM	S	0.9

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
3 Feb 2024	10:00 AM	SSE	0.8
3 Feb 2024	11:00 AM	SE	1.1
3 Feb 2024	12:00 PM	SSW	1.4
3 Feb 2024	1:00 PM	SSE	1.2
3 Feb 2024	2:00 PM	ESE	0.9
3 Feb 2024	3:00 PM	ESE	1.4
3 Feb 2024	4:00 PM	ESE	1.2
3 Feb 2024	5:00 PM	SSE	0.9
3 Feb 2024	6:00 PM	SSE	0.8
3 Feb 2024	7:00 PM	SSE	0.3
3 Feb 2024	8:00 PM	W	1.0
3 Feb 2024	9:00 PM	WSW	1.3
3 Feb 2024	10:00 PM	SE	0.4
3 Feb 2024	11:00 PM	SSW	0.6
4 Feb 2024	12:00 AM	WNW	1.2
4 Feb 2024	1:00 AM	SSW	0.4
4 Feb 2024	2:00 AM	S	0.9
4 Feb 2024	3:00 AM	S	0.9
4 Feb 2024	4:00 AM	SSW	0.9
4 Feb 2024	5:00 AM	SSW	0.4
4 Feb 2024	6:00 AM	SSE	0.6
4 Feb 2024	7:00 AM	S	1.4
4 Feb 2024	8:00 AM	WNW	1.8
4 Feb 2024	9:00 AM	SSW	0.8
4 Feb 2024	10:00 AM	SW	1.2
4 Feb 2024	11:00 AM	SSE	1.0
4 Feb 2024	12:00 PM	SSE	0.9
4 Feb 2024	1:00 PM	SE	0.9
4 Feb 2024	2:00 PM	SSE	0.4

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
4 Feb 2024	3:00 PM	SE	0.6
4 Feb 2024	4:00 PM	E	0.9
4 Feb 2024	5:00 PM	ESE	0.8
4 Feb 2024	6:00 PM	SE	0.6
4 Feb 2024	7:00 PM	SSW	0.6
4 Feb 2024	8:00 PM	SE	0.3
4 Feb 2024	9:00 PM	SSE	0.5
4 Feb 2024	10:00 PM	SE	0.6
4 Feb 2024	11:00 PM	S	1.2
5 Feb 2024	12:00 AM	S	0.6
5 Feb 2024	1:00 AM	S	0.9
5 Feb 2024	2:00 AM	S	0.5
5 Feb 2024	3:00 AM	SSE	0.4
5 Feb 2024	4:00 AM	SSE	0.4
5 Feb 2024	5:00 AM	S	0.6
5 Feb 2024	6:00 AM	S	0.5
5 Feb 2024	7:00 AM	S	0.9
5 Feb 2024	8:00 AM	SSW	1.7
5 Feb 2024	9:00 AM	S	1.1
5 Feb 2024	10:00 AM	SE	0.5
5 Feb 2024	11:00 AM	SE	0.9
5 Feb 2024	12:00 PM	SSE	1.3
5 Feb 2024	1:00 PM	S	0.4
5 Feb 2024	2:00 PM	SSW	0.5
5 Feb 2024	3:00 PM	W	0.9
5 Feb 2024	4:00 PM	SSW	1.0
5 Feb 2024	5:00 PM	SSE	0.5
5 Feb 2024	6:00 PM	S	0.7
5 Feb 2024	7:00 PM	SE	0.3

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
5 Feb 2024	8:00 PM	SSW	0.7
5 Feb 2024	9:00 PM	SSW	0.3
5 Feb 2024	10:00 PM	SSE	0.2
5 Feb 2024	11:00 PM	WNW	0.6
6 Feb 2024	12:00 AM	WSW	0.3
6 Feb 2024	1:00 AM	SSW	1.0
6 Feb 2024	2:00 AM	SW	0.9
6 Feb 2024	3:00 AM	SW	0.5
6 Feb 2024	4:00 AM	S	0.8
6 Feb 2024	5:00 AM	SSW	1.4
6 Feb 2024	6:00 AM	SW	1.2
6 Feb 2024	7:00 AM	SSE	0.5
6 Feb 2024	8:00 AM	SSE	0.4
6 Feb 2024	9:00 AM	S	0.5
6 Feb 2024	10:00 AM	WSW	1.4
6 Feb 2024	11:00 AM	S	1.0
6 Feb 2024	12:00 PM	SW	1.7
6 Feb 2024	1:00 PM	SE	1.6
6 Feb 2024	2:00 PM	SE	1.5
6 Feb 2024	3:00 PM	S	1.2
6 Feb 2024	4:00 PM	W	2.0
6 Feb 2024	5:00 PM	W	1.8
6 Feb 2024	6:00 PM	WNW	1.7
6 Feb 2024	7:00 PM	NW	1.9
6 Feb 2024	8:00 PM	W	1.0
6 Feb 2024	9:00 PM	SSW	0.7
6 Feb 2024	10:00 PM	SSW	1.0
6 Feb 2024	11:00 PM	S	0.7
7 Feb 2024	12:00 AM	SSW	1.0

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
7 Feb 2024	1:00 AM	SSE	0.9
7 Feb 2024	2:00 AM	S	1.3
7 Feb 2024	3:00 AM	SSW	0.7
7 Feb 2024	4:00 AM	SSW	0.7
7 Feb 2024	5:00 AM	SSE	0.4
7 Feb 2024	6:00 AM	SE	0.6
7 Feb 2024	7:00 AM	SSE	0.7
7 Feb 2024	8:00 AM	SE	0.2
7 Feb 2024	9:00 AM	S	0.3
7 Feb 2024	10:00 AM	SE	0.4
7 Feb 2024	11:00 AM	SE	0.4
7 Feb 2024	12:00 PM	SSE	0.7
7 Feb 2024	1:00 PM	S	0.7
7 Feb 2024	2:00 PM	S	1.3
7 Feb 2024	3:00 PM	S	1.9
7 Feb 2024	4:00 PM	SSE	2.1
7 Feb 2024	5:00 PM	S	2.3
7 Feb 2024	6:00 PM	S	1.6
7 Feb 2024	7:00 PM	SSE	1.7
7 Feb 2024	8:00 PM	SSE	2.1
7 Feb 2024	9:00 PM	S	1.9
7 Feb 2024	10:00 PM	S	1.9
7 Feb 2024	11:00 PM	S	2.0
8 Feb 2024	12:00 AM	SW	2.1
8 Feb 2024	1:00 AM	S	2.3
8 Feb 2024	2:00 AM	S	2.0
8 Feb 2024	3:00 AM	SSW	2.4
8 Feb 2024	4:00 AM	S	1.5
8 Feb 2024	5:00 AM	S	2.1

February 2024 Wind Speed and Directions			
8 Feb 2024	6:00 AM	SSW	2.1
8 Feb 2024	7:00 AM	SSW	1.5
8 Feb 2024	8:00 AM	S	1.5
8 Feb 2024	9:00 AM	SSW	1.7
8 Feb 2024	10:00 AM	SSW	1.6
8 Feb 2024	11:00 AM	SSW	1.4
8 Feb 2024	12:00 PM	S	1.8
8 Feb 2024	1:00 PM	SSW	1.8
8 Feb 2024	2:00 PM	SSW	1.8
8 Feb 2024	3:00 PM	SSE	1.6
8 Feb 2024	4:00 PM	S	1.8
8 Feb 2024	5:00 PM	S	1.5
8 Feb 2024	6:00 PM	SSW	1.5
8 Feb 2024	7:00 PM	SSW	2.1
8 Feb 2024	8:00 PM	SSW	1.9
8 Feb 2024	9:00 PM	S	2.0
8 Feb 2024	10:00 PM	SSW	2.4
8 Feb 2024	11:00 PM	S	1.9
9 Feb 2024	12:00 AM	SSW	2.0
9 Feb 2024	1:00 AM	S	2.0
9 Feb 2024	2:00 AM	SSW	2.0
9 Feb 2024	3:00 AM	S	1.9
9 Feb 2024	4:00 AM	S	1.8
9 Feb 2024	5:00 AM	SSW	2.0
9 Feb 2024	6:00 AM	S	1.9
9 Feb 2024	7:00 AM	SSW	2.2
9 Feb 2024	8:00 AM	SW	2.1
9 Feb 2024	9:00 AM	SSW	2.2
9 Feb 2024	10:00 AM	SSW	2.1

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
9 Feb 2024	11:00 AM	SSE	1.9
9 Feb 2024	12:00 PM	S	2.1
9 Feb 2024	1:00 PM	S	2.1
9 Feb 2024	2:00 PM	S	1.5
9 Feb 2024	3:00 PM	SSE	1.6
9 Feb 2024	4:00 PM	S	2.5
9 Feb 2024	5:00 PM	S	2.6
9 Feb 2024	6:00 PM	SSE	2.2
9 Feb 2024	7:00 PM	SSE	1.3
9 Feb 2024	8:00 PM	SSE	1.9
9 Feb 2024	9:00 PM	SSE	1.4
9 Feb 2024	10:00 PM	S	2.1
9 Feb 2024	11:00 PM	SSE	2.2
10 Feb 2024	12:00 AM	S	1.8
10 Feb 2024	1:00 AM	SSE	1.3
10 Feb 2024	2:00 AM	S	1.4
10 Feb 2024	3:00 AM	SSE	1.9
10 Feb 2024	4:00 AM	SSE	1.7
10 Feb 2024	5:00 AM	S	1.3
10 Feb 2024	6:00 AM	S	1.5
10 Feb 2024	7:00 AM	S	1.9
10 Feb 2024	8:00 AM	S	2.1
10 Feb 2024	9:00 AM	S	2.1
10 Feb 2024	10:00 AM	SSW	1.7
10 Feb 2024	11:00 AM	S	1.6
10 Feb 2024	12:00 PM	SSW	1.9
10 Feb 2024	1:00 PM	SSW	1.8
10 Feb 2024	2:00 PM	S	1.5
10 Feb 2024	3:00 PM	S	1.0

February 2024 Wind Speed and Directions			
10 Feb 2024	4:00 PM	S	0.9
10 Feb 2024	5:00 PM	ESE	0.7
10 Feb 2024	6:00 PM	SE	0.0
10 Feb 2024	7:00 PM	SE	0.1
10 Feb 2024	8:00 PM	SE	0.1
10 Feb 2024	9:00 PM	SSE	0.1
10 Feb 2024	10:00 PM	SSE	0.2
10 Feb 2024	11:00 PM	S	0.3
11 Feb 2024	12:00 AM	SSE	0.0
11 Feb 2024	1:00 AM	SSE	0.1
11 Feb 2024	2:00 AM	SSE	0.7
11 Feb 2024	3:00 AM	S	0.0
11 Feb 2024	4:00 AM	ESE	0.0
11 Feb 2024	5:00 AM	SW	0.6
11 Feb 2024	6:00 AM	SSW	0.2
11 Feb 2024	7:00 AM	Е	0.0
11 Feb 2024	8:00 AM	SE	0.5
11 Feb 2024	9:00 AM	S	1.4
11 Feb 2024	10:00 AM	SSE	1.8
11 Feb 2024	11:00 AM	S	1.8
11 Feb 2024	12:00 PM	SSE	2.0
11 Feb 2024	1:00 PM	SSE	1.7
11 Feb 2024	2:00 PM	WSW	1.3
11 Feb 2024	3:00 PM	S	0.5
11 Feb 2024	4:00 PM	S	0.6
11 Feb 2024	5:00 PM	ESE	0.4
11 Feb 2024	6:00 PM	S	0.0
11 Feb 2024	7:00 PM	SE	0.0
11 Feb 2024	8:00 PM	SE	0.0

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
11 Feb 2024	9:00 PM	SE	0.0
11 Feb 2024	10:00 PM	SE	0.0
11 Feb 2024	11:00 PM	SSW	0.0
12 Feb 2024	12:00 AM	SE	0.0
12 Feb 2024	1:00 AM	S	0.0
12 Feb 2024	2:00 AM	SSE	0.1
12 Feb 2024	3:00 AM	S	0.0
12 Feb 2024	4:00 AM	S	0.2
12 Feb 2024	5:00 AM	S	0.2
12 Feb 2024	6:00 AM	SSW	0.0
12 Feb 2024	7:00 AM	S	0.0
12 Feb 2024	8:00 AM	SSE	0.0
12 Feb 2024	9:00 AM	SSW	1.6
12 Feb 2024	10:00 AM	S	1.7
12 Feb 2024	11:00 AM	W	2.2
12 Feb 2024	12:00 PM	NW	2.2
12 Feb 2024	1:00 PM	SSW	2.6
12 Feb 2024	2:00 PM	ESE	1.6
12 Feb 2024	3:00 PM	ESE	1.8
12 Feb 2024	4:00 PM	SE	1.3
12 Feb 2024	5:00 PM	SSW	1.2
12 Feb 2024	6:00 PM	S	0.6
12 Feb 2024	7:00 PM	SSW	0.3
12 Feb 2024	8:00 PM	SSW	0.5
12 Feb 2024	9:00 PM	WSW	1.8
12 Feb 2024	10:00 PM	WSW	1.5
12 Feb 2024	11:00 PM	S	0.6
13 Feb 2024	12:00 AM	SSE	0.5
13 Feb 2024	1:00 AM	SSW	0.4

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
13 Feb 2024	2:00 AM	S	0.5
13 Feb 2024	3:00 AM	S	0.0
13 Feb 2024	4:00 AM	S	0.0
13 Feb 2024	5:00 AM	SSE	0.0
13 Feb 2024	6:00 AM	S	0.1
13 Feb 2024	7:00 AM	SE	0.2
13 Feb 2024	8:00 AM	SSE	0.8
13 Feb 2024	9:00 AM	S	0.9
13 Feb 2024	10:00 AM	S	0.6
13 Feb 2024	11:00 AM	S	0.4
13 Feb 2024	12:00 PM	SSE	0.9
13 Feb 2024	1:00 PM	ESE	0.9
13 Feb 2024	2:00 PM	ESE	1.2
13 Feb 2024	3:00 PM	SSW	1.2
13 Feb 2024	4:00 PM	SW	1.3
13 Feb 2024	5:00 PM	WNW	1.8
13 Feb 2024	6:00 PM	ESE	0.4
13 Feb 2024	7:00 PM	SE	0.2
13 Feb 2024	8:00 PM	ESE	0.0
13 Feb 2024	9:00 PM	SW	0.0
13 Feb 2024	10:00 PM	SSE	0.1
13 Feb 2024	11:00 PM	SE	0.0
14 Feb 2024	12:00 AM	SSW	0.4
14 Feb 2024	1:00 AM	SSE	0.1
14 Feb 2024	2:00 AM	S	0.0
14 Feb 2024	3:00 AM	S	0.0
14 Feb 2024	4:00 AM	S	0.2
14 Feb 2024	5:00 AM	SSE	0.1
14 Feb 2024	6:00 AM	SSE	0.2

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
14 Feb 2024	7:00 AM	ESE	0.0
14 Feb 2024	8:00 AM	SSW	0.7
14 Feb 2024	9:00 AM	S	1.1
14 Feb 2024	10:00 AM	SSW	1.0
14 Feb 2024	11:00 AM	SSE	0.4
14 Feb 2024	12:00 PM	SE	0.5
14 Feb 2024	1:00 PM	SE	1.7
14 Feb 2024	2:00 PM	SE	0.9
14 Feb 2024	3:00 PM	WSW	1.2
14 Feb 2024	4:00 PM	S	0.8
14 Feb 2024	5:00 PM	SSW	0.6
14 Feb 2024	6:00 PM	S	0.5
14 Feb 2024	7:00 PM	SSE	0.3
14 Feb 2024	8:00 PM	SE	0.1
14 Feb 2024	9:00 PM	S	0.0
14 Feb 2024	10:00 PM	S	0.0
14 Feb 2024	11:00 PM	S	0.0
15 Feb 2024	12:00 AM	SSW	0.2
15 Feb 2024	1:00 AM	SSE	0.1
15 Feb 2024	2:00 AM	S	0.5
15 Feb 2024	3:00 AM	SSE	0.3
15 Feb 2024	4:00 AM	SSE	0.6
15 Feb 2024	5:00 AM	S	0.4
15 Feb 2024	6:00 AM	SSE	0.4
15 Feb 2024	7:00 AM	SSE	0.2
15 Feb 2024	8:00 AM	S	0.8
15 Feb 2024	9:00 AM	S	1.2
15 Feb 2024	10:00 AM	SSW	1.3
15 Feb 2024	11:00 AM	SE	0.5

February 2024 Wind Speed and Directions					
15 Feb 2024	12:00 PM	SSE	0.6		
15 Feb 2024	1:00 PM	SE	1.0		
15 Feb 2024	2:00 PM	S	0.9		
15 Feb 2024	3:00 PM	SSE	0.6		
15 Feb 2024	4:00 PM	SE	1.1		
15 Feb 2024	5:00 PM	SSE	0.4		
15 Feb 2024	6:00 PM	SE	0.1		
15 Feb 2024	7:00 PM	SSE	0.0		
15 Feb 2024	8:00 PM	S	0.1		
15 Feb 2024	9:00 PM	S	0.2		
15 Feb 2024	10:00 PM	SSE	0.2		
15 Feb 2024	11:00 PM	SSE	0.1		
16 Feb 2024	12:00 AM	ESE	0.0		
16 Feb 2024	1:00 AM	SSE	0.2		
16 Feb 2024	2:00 AM	SSW	0.5		
16 Feb 2024	3:00 AM	S	0.3		
16 Feb 2024	4:00 AM	ESE	0.6		
16 Feb 2024	5:00 AM	S	1.2		
16 Feb 2024	6:00 AM	S	2.0		
16 Feb 2024	7:00 AM	S	1.9		
16 Feb 2024	8:00 AM	SSE	1.9		
16 Feb 2024	9:00 AM	S	2.1		
16 Feb 2024	10:00 AM	SSW	1.4		
16 Feb 2024	11:00 AM	SSE	1.1		
16 Feb 2024	12:00 PM	ESE	1.8		
16 Feb 2024	1:00 PM	SE	1.2		
16 Feb 2024	2:00 PM	ESE	1.1		
16 Feb 2024	3:00 PM	S	1.3		
16 Feb 2024	4:00 PM	W	2.3		
February 2024					
---------------	---------------------------	-----------	----------------	--	--
	Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s		
16 Feb 2024	5:00 PM	WSW	2.0		
16 Feb 2024	6:00 PM	W	2.3		
16 Feb 2024	7:00 PM	SW	1.6		
16 Feb 2024	8:00 PM	SW	1.6		
16 Feb 2024	9:00 PM	SW	1.0		
16 Feb 2024	10:00 PM	S	0.6		
16 Feb 2024	11:00 PM	SW	0.9		
17 Feb 2024	12:00 AM	SSW	0.7		
17 Feb 2024	1:00 AM	SW	0.7		
17 Feb 2024	2:00 AM	SW	1.1		
17 Feb 2024	3:00 AM	SW	1.8		
17 Feb 2024	4:00 AM	W	0.8		
17 Feb 2024	5:00 AM	S	0.5		
17 Feb 2024	6:00 AM	SSW	1.1		
17 Feb 2024	7:00 AM	S	0.5		
17 Feb 2024	8:00 AM	S	0.5		
17 Feb 2024	9:00 AM	W	2.1		
17 Feb 2024	10:00 AM	WSW	1.8		
17 Feb 2024	11:00 AM	WSW	1.8		
17 Feb 2024	12:00 PM	WSW	1.1		
17 Feb 2024	1:00 PM	SSW	1.2		
17 Feb 2024	2:00 PM	WNW	1.5		
17 Feb 2024	3:00 PM	WSW	1.4		
17 Feb 2024	4:00 PM	WSW	1.6		
17 Feb 2024	5:00 PM	SSE	0.8		
17 Feb 2024	6:00 PM	SSW	2.7		
17 Feb 2024	7:00 PM	W	3.3		
17 Feb 2024	8:00 PM	NW	3.9		
17 Feb 2024	9:00 PM	SSW	0.9		

February 2024				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
17 Feb 2024	10:00 PM	SW	0.6	
17 Feb 2024	11:00 PM	SE	0.3	
18 Feb 2024	12:00 AM	ESE	0.2	
18 Feb 2024	1:00 AM	SE	0.1	
18 Feb 2024	2:00 AM	SE	0.2	
18 Feb 2024	3:00 AM	SSW	0.2	
18 Feb 2024	4:00 AM	WSW	0.0	
18 Feb 2024	5:00 AM	SE	0.0	
18 Feb 2024	6:00 AM	SSW	0.2	
18 Feb 2024	7:00 AM	SSW	0.1	
18 Feb 2024	8:00 AM	SE	0.2	
18 Feb 2024	9:00 AM	SE	0.4	
18 Feb 2024	10:00 AM	S	1.0	
18 Feb 2024	11:00 AM	SSW	1.4	
18 Feb 2024	12:00 PM	SW	1.5	
18 Feb 2024	1:00 PM	SSE	1.1	
18 Feb 2024	2:00 PM	SW	1.1	
18 Feb 2024	3:00 PM	S	1.0	
18 Feb 2024	4:00 PM	SW	1.1	
18 Feb 2024	5:00 PM	SSW	1.5	
18 Feb 2024	6:00 PM	SSW	0.8	
18 Feb 2024	7:00 PM	SSW	0.7	
18 Feb 2024	8:00 PM	SSW	0.3	
18 Feb 2024	9:00 PM	WSW	0.1	
18 Feb 2024	10:00 PM	SSW	0.1	
18 Feb 2024	11:00 PM	Е	0.2	
19 Feb 2024	12:00 AM	SSW	0.2	
19 Feb 2024	1:00 AM	SE	0.0	
19 Feb 2024	2:00 AM	S	0.0	

February 2024					
	Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s		
19 Feb 2024	3:00 AM	S	0.0		
19 Feb 2024	4:00 AM	SSE	0.0		
19 Feb 2024	5:00 AM	SE	0.0		
19 Feb 2024	6:00 AM	SE	0.1		
19 Feb 2024	7:00 AM	SE	0.2		
19 Feb 2024	8:00 AM	SE	0.3		
19 Feb 2024	9:00 AM	SE	0.8		
19 Feb 2024	10:00 AM	Е	0.7		
19 Feb 2024	11:00 AM	Е	0.8		
19 Feb 2024	12:00 PM	SSE	0.9		
19 Feb 2024	1:00 PM	SE	0.7		
19 Feb 2024	2:00 PM	SE	0.9		
19 Feb 2024	3:00 PM	Е	0.8		
19 Feb 2024	4:00 PM	SSE	0.7		
19 Feb 2024	5:00 PM	WSW	1.0		
19 Feb 2024	6:00 PM	SSW	0.7		
19 Feb 2024	7:00 PM	SSE	0.8		
19 Feb 2024	8:00 PM	SW	0.6		
19 Feb 2024	9:00 PM	SSE	0.7		
19 Feb 2024	10:00 PM	S	0.6		
19 Feb 2024	11:00 PM	S	0.9		
20 Feb 2024	12:00 AM	SW	1.0		
20 Feb 2024	1:00 AM	S	0.6		
20 Feb 2024	2:00 AM	S	0.2		
20 Feb 2024	3:00 AM	SSE	0.3		
20 Feb 2024	4:00 AM	SE	0.3		
20 Feb 2024	5:00 AM	SSE	0.2		
20 Feb 2024	6:00 AM	SE	0.6		
20 Feb 2024	7:00 AM	S	0.3		

February 2024					
	Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s		
20 Feb 2024	8:00 AM	S	1.0		
20 Feb 2024	9:00 AM	SW	1.0		
20 Feb 2024	10:00 AM	SSW	1.9		
20 Feb 2024	11:00 AM	SSW	1.5		
20 Feb 2024	12:00 PM	S	1.1		
20 Feb 2024	1:00 PM	SSE	1.1		
20 Feb 2024	2:00 PM	S	1.2		
20 Feb 2024	3:00 PM	S	1.1		
20 Feb 2024	4:00 PM	SSW	1.6		
20 Feb 2024	5:00 PM	SW	1.4		
20 Feb 2024	6:00 PM	SSE	0.8		
20 Feb 2024	7:00 PM	SSW	0.9		
20 Feb 2024	8:00 PM	S	0.4		
20 Feb 2024	9:00 PM	SSE	0.9		
20 Feb 2024	10:00 PM	SSE	1.1		
20 Feb 2024	11:00 PM	S	0.8		
21 Feb 2024	12:00 AM	SSE	1.0		
21 Feb 2024	1:00 AM	ESE	1.1		
21 Feb 2024	2:00 AM	SE	0.9		
21 Feb 2024	3:00 AM	SE	0.6		
21 Feb 2024	4:00 AM	SSE	0.2		
21 Feb 2024	5:00 AM	S	0.2		
21 Feb 2024	6:00 AM	S	0.2		
21 Feb 2024	7:00 AM	S	0.6		
21 Feb 2024	8:00 AM	SSE	0.4		
21 Feb 2024	9:00 AM	SW	1.3		
21 Feb 2024	10:00 AM	SSE	0.9		
21 Feb 2024	11:00 AM	SW	1.8		
21 Feb 2024	12:00 PM	SW	2.2		

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
21 Feb 2024	1:00 PM	SSE	1.4
21 Feb 2024	2:00 PM	SW	1.3
21 Feb 2024	3:00 PM	S	1.1
21 Feb 2024	4:00 PM	SE	1.2
21 Feb 2024	5:00 PM	SSE	0.8
21 Feb 2024	6:00 PM	W	1.6
21 Feb 2024	7:00 PM	WNW	1.6
21 Feb 2024	8:00 PM	WSW	1.3
21 Feb 2024	9:00 PM	ESE	0.3
21 Feb 2024	10:00 PM	SE	0.1
21 Feb 2024	11:00 PM	SSE	0.1
22 Feb 2024	12:00 AM	S	0.2
22 Feb 2024	1:00 AM	SSE	0.2
22 Feb 2024	2:00 AM	SSE	0.0
22 Feb 2024	3:00 AM	S	0.0
22 Feb 2024	4:00 AM	S	0.1
22 Feb 2024	5:00 AM	SSE	0.1
22 Feb 2024	6:00 AM	S	0.1
22 Feb 2024	7:00 AM	S	0.2
22 Feb 2024	8:00 AM	SSW	0.3
22 Feb 2024	9:00 AM	SSE	0.6
22 Feb 2024	10:00 AM	SSW	1.0
22 Feb 2024	11:00 AM	S	1.0
22 Feb 2024	12:00 PM	SSW	1.1
22 Feb 2024	1:00 PM	SSE	1.6
22 Feb 2024	2:00 PM	S	1.3
22 Feb 2024	3:00 PM	S	0.8
22 Feb 2024	4:00 PM	SSW	0.7
22 Feb 2024	5:00 PM	S	0.6

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
22 Feb 2024	6:00 PM	SE	0.7
22 Feb 2024	7:00 PM	SSE	0.6
22 Feb 2024	8:00 PM	ESE	0.6
22 Feb 2024	9:00 PM	SE	0.9
22 Feb 2024	10:00 PM	ESE	0.7
22 Feb 2024	11:00 PM	SSE	0.5
23 Feb 2024	12:00 AM	SSE	0.4
23 Feb 2024	1:00 AM	SSW	0.6
23 Feb 2024	2:00 AM	SSE	0.6
23 Feb 2024	3:00 AM	Е	0.6
23 Feb 2024	4:00 AM	SSE	0.9
23 Feb 2024	5:00 AM	SSE	0.6
23 Feb 2024	6:00 AM	SSW	1.1
23 Feb 2024	7:00 AM	S	1.6
23 Feb 2024	8:00 AM	SSW	1.7
23 Feb 2024	9:00 AM	S	2.1
23 Feb 2024	10:00 AM	SSW	1.9
23 Feb 2024	11:00 AM	S	1.4
23 Feb 2024	12:00 PM	S	1.6
23 Feb 2024	1:00 PM	SSE	1.6
23 Feb 2024	2:00 PM	S	1.3
23 Feb 2024	3:00 PM	S	2.2
23 Feb 2024	4:00 PM	SW	1.4
23 Feb 2024	5:00 PM	SW	0.7
23 Feb 2024	6:00 PM	S	1.8
23 Feb 2024	7:00 PM	SW	1.0
23 Feb 2024	8:00 PM	SW	0.5
23 Feb 2024	9:00 PM	S	0.8
23 Feb 2024	10:00 PM	SSW	1.3

February 2024				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
23 Feb 2024	11:00 PM	SSE	2.4	
24 Feb 2024	12:00 AM	SSE	3.2	
24 Feb 2024	1:00 AM	S	2.0	
24 Feb 2024	2:00 AM	S	1.9	
24 Feb 2024	3:00 AM	SSW	1.3	
24 Feb 2024	4:00 AM	SSW	1.7	
24 Feb 2024	5:00 AM	SSW	1.8	
24 Feb 2024	6:00 AM	SSW	1.9	
24 Feb 2024	7:00 AM	S	2.0	
24 Feb 2024	8:00 AM	SSW	1.7	
24 Feb 2024	9:00 AM	SSE	1.8	
24 Feb 2024	10:00 AM	S	1.6	
24 Feb 2024	11:00 AM	S	1.6	
24 Feb 2024	12:00 PM	SSE	2.2	
24 Feb 2024	1:00 PM	SSW	1.8	
24 Feb 2024	2:00 PM	SSE	2.2	
24 Feb 2024	3:00 PM	SSE	2.7	
24 Feb 2024	4:00 PM	SSE	3.0	
24 Feb 2024	5:00 PM	SSE	2.5	
24 Feb 2024	6:00 PM	SSE	2.9	
24 Feb 2024	7:00 PM	SSE	2.5	
24 Feb 2024	8:00 PM	SSE	2.6	
24 Feb 2024	9:00 PM	S	1.6	
24 Feb 2024	10:00 PM	S	2.0	
24 Feb 2024	11:00 PM	SE	2.0	
25 Feb 2024	12:00 AM	SSW	2.0	
25 Feb 2024	1:00 AM	SSW	1.9	
25 Feb 2024	2:00 AM	SSW	1.3	
25 Feb 2024	3:00 AM	SSE	3.0	

February 2024				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
25 Feb 2024	4:00 AM	SSE	2.9	
25 Feb 2024	5:00 AM	S	2.8	
25 Feb 2024	6:00 AM	S	2.3	
25 Feb 2024	7:00 AM	SSW	1.9	
25 Feb 2024	8:00 AM	S	1.5	
25 Feb 2024	9:00 AM	S	2.1	
25 Feb 2024	10:00 AM	S	2.0	
25 Feb 2024	11:00 AM	S	2.0	
25 Feb 2024	12:00 PM	S	1.9	
25 Feb 2024	1:00 PM	SSE	2.2	
25 Feb 2024	2:00 PM	SSE	2.3	
25 Feb 2024	3:00 PM	S	2.2	
25 Feb 2024	4:00 PM	S	1.7	
25 Feb 2024	5:00 PM	S	1.8	
25 Feb 2024	6:00 PM	S	2.0	
25 Feb 2024	7:00 PM	SSE	1.7	
25 Feb 2024	8:00 PM	SSE	1.6	
25 Feb 2024	9:00 PM	S	0.9	
25 Feb 2024	10:00 PM	SSE	0.7	
25 Feb 2024	11:00 PM	SSE	1.0	
26 Feb 2024	12:00 AM	S	0.8	
26 Feb 2024	1:00 AM	S	1.4	
26 Feb 2024	2:00 AM	S	1.2	
26 Feb 2024	3:00 AM	S	1.2	
26 Feb 2024	4:00 AM	SSW	1.2	
26 Feb 2024	5:00 AM	S	1.9	
26 Feb 2024	6:00 AM	SSW	2.0	
26 Feb 2024	7:00 AM	SW	1.5	
26 Feb 2024	8:00 AM	S	1.2	

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
26 Feb 2024	9:00 AM	S	1.5
26 Feb 2024	10:00 AM	SSW	1.5
26 Feb 2024	11:00 AM	S	1.6
26 Feb 2024	12:00 PM	SSW	1.4
26 Feb 2024	1:00 PM	SSE	1.1
26 Feb 2024	2:00 PM	S	1.2
26 Feb 2024	3:00 PM	SE	0.9
26 Feb 2024	4:00 PM	S	1.1
26 Feb 2024	5:00 PM	ESE	1.0
26 Feb 2024	6:00 PM	SSE	0.5
26 Feb 2024	7:00 PM	SSE	0.5
26 Feb 2024	8:00 PM	ESE	0.4
26 Feb 2024	9:00 PM	SSE	0.5
26 Feb 2024	10:00 PM	S	0.7
26 Feb 2024	11:00 PM	SSW	1.0
27 Feb 2024	12:00 AM	SSW	0.8
27 Feb 2024	1:00 AM	S	1.5
27 Feb 2024	2:00 AM	S	1.7
27 Feb 2024	3:00 AM	S	1.9
27 Feb 2024	4:00 AM	SSE	2.3
27 Feb 2024	5:00 AM	SSW	2.0
27 Feb 2024	6:00 AM	SSW	2.5
27 Feb 2024	7:00 AM	S	2.4
27 Feb 2024	8:00 AM	S	2.1
27 Feb 2024	9:00 AM	SSW	2.0
27 Feb 2024	10:00 AM	SW	1.6
27 Feb 2024	11:00 AM	S	1.4
27 Feb 2024	12:00 PM	S	1.3
27 Feb 2024	1:00 PM	S	1.3

February 2024					
	Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s		
27 Feb 2024	2:00 PM	SE	1.0		
27 Feb 2024	3:00 PM	SSE	0.9		
27 Feb 2024	4:00 PM	SSE	0.9		
27 Feb 2024	5:00 PM	ESE	0.7		
27 Feb 2024	6:00 PM	SE	0.8		
27 Feb 2024	7:00 PM	SE	0.7		
27 Feb 2024	8:00 PM	S	0.9		
27 Feb 2024	9:00 PM	S	0.5		
27 Feb 2024	10:00 PM	SSW	0.3		
27 Feb 2024	11:00 PM	SE	0.2		
28 Feb 2024	12:00 AM	SSE	0.2		
28 Feb 2024	1:00 AM	SSW	0.3		
28 Feb 2024	2:00 AM	SW	0.5		
28 Feb 2024	3:00 AM	SSE	0.4		
28 Feb 2024	4:00 AM	SSE	0.2		
28 Feb 2024	5:00 AM	SSW	0.7		
28 Feb 2024	6:00 AM	S	0.6		
28 Feb 2024	7:00 AM	S	0.5		
28 Feb 2024	8:00 AM	SE	0.0		
28 Feb 2024	9:00 AM	SW	0.5		
28 Feb 2024	10:00 AM	SSW	1.0		
28 Feb 2024	11:00 AM	SW	0.8		
28 Feb 2024	12:00 PM	SSE	0.7		
28 Feb 2024	1:00 PM	SW	1.2		
28 Feb 2024	2:00 PM	S	0.9		

February 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
28 Feb 2024	3:00 PM	S	1.3
28 Feb 2024	4:00 PM	SSE	0.9
28 Feb 2024	5:00 PM	S	0.5
28 Feb 2024	6:00 PM	SSE	0.9
28 Feb 2024	7:00 PM	S	0.7
28 Feb 2024	8:00 PM	SW	0.5
28 Feb 2024	9:00 PM	SSW	0.1
28 Feb 2024	10:00 PM	S	0.0
28 Feb 2024	11:00 PM	S	0.0
29 Feb 2024	12:00 AM	SSE	0.0
29 Feb 2024	1:00 AM	SSW	0.0
29 Feb 2024	2:00 AM	SSE	0.1
29 Feb 2024	3:00 AM	SSE	0.4
29 Feb 2024	4:00 AM	SSW	0.3
29 Feb 2024	5:00 AM	SSE	0.1
29 Feb 2024	6:00 AM	SSW	0.0
29 Feb 2024	7:00 AM	SSW	0.2
29 Feb 2024	8:00 AM	SSE	0.1
29 Feb 2024	9:00 AM	SSE	0.1
29 Feb 2024	10:00 AM	SSE	0.2
29 Feb 2024	11:00 AM	SSW	0.5
29 Feb 2024	12:00 PM	SSE	0.9
29 Feb 2024	1:00 PM	SSE	1.1
29 Feb 2024	2:00 PM	S	0.9
29 Feb 2024	3:00 PM	SSE	0.9
29 Feb 2024	4:00 PM	SSE	1.5
29 Feb 2024	5:00 PM	S	2.7
29 Feb 2024	6:00 PM	S	2.5

February 2024			
	Wind Speed a	and Directions	
Date	Time	Direction	Wind Speed m-s
29 Feb 2024	7:00 PM	S	2.1
29 Feb 2024	8:00 PM	SSE	2.7
29 Feb 2024	9:00 PM	SSW	2.0
29 Feb 2024	10:00 PM	S	3.1
29 Feb 2024	11:00 PM	S	3.1

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

	Weather	Air Temp.	Atmospheric	Filter W	'eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol.	Conc.	Action	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 )	Level (µ g/m3)	(µg/m3)
6-Feb-24	Rainy	291.0	764.8	3.7286	3.8741	0.1454	7248.7	7272.7	24.0	1.21	1.22	1.22	1750.5	83.1		
9-Feb-24	Fine	286.6	769.8	3.3428	3.3853	0.0424	7272.7	7296.7	24.0	1.23	1.23	1.23	1766.2	24.0		
15-Feb-24	Fine	294.4	765.5	3.6798	3.8195	0.1397	7296.7	7320.7	24.0	1.21	1.21	1.21	1742.1	80.2	191.0	260.0
20-Feb-24	Fine	297.2	762.0	3.3675	3.5163	0.1488	7320.7	7344.7	24.0	1.20	1.20	1.20	1731.9	85.9		
26-Feb-24	Cloudy	290.9	766.8	3.3358	3.5423	0.2065	7344.7	7368.7	24.0	1.22	1.22	1.22	1751.7	117.9		
Note:	Bold Italic means A	ction Level exce	edance										Min	24.0		
	Bold Italic with und	l <u>erline</u> means L	imit Level exceedance										Max	117.9		
													Average	78.2		

#### Location CKL2 - Flat 103 Cha Kwo Ling Village

	Weather	Air Temp.	Atmospheric	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av Flow	Total vol.	Conc.	Action	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 )	Level (µ g/m3)	(µg/m3)
6-Feb-24	Cloudy	291.0	764.8	3.3460	3.5311	0.1851	19678.2	19702.2	24.0	1.21	1.22	1.21	1748.4	105.9		
9-Feb-24	Cloudy	286.6	769.8	3.3304	3.4184	0.0880	19702.2	19726.2	24.0	1.23	1.22	1.22	1763.4	49.9		
15-Feb-24	Fine	294.4	765.5	3.4088	3.5769	0.1681	19726.6	19750.6	24.0	1.21	1.21	1.21	1741.0	96.6	183.0	260.0
20-Feb-24	Fine	297.2	762.0	3.3380	3.4829	0.1449	19750.6	19774.6	24.0	1.20	1.20	1.20	1731.3	83.7		
26-Feb-24	Fine	290.9	766.8	3.3447	3.5441	0.1994	19774.6	19798.6	24.0	1.21	1.22	1.22	1751.7	113.8		
Note:	Bold Italic means A	Action Level exce	edance										Min	49.9		
	Bold Italic with une	derline means l	Limit Level exceedance										Max	113.8		
													Average	90.0		

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

	Weather	Air Temp.	Atmospheric	Filter Weight (g)		Particulate	Elapse Time		Sampling	Flow Rate (m ³ /min.)		Av. Flow	Total vol.	Conc.	Action	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 )	Level (µ g/m3)	(µg/m3)
6-Feb-24	Rainy	291.0	764.8	3.3155	3.3559	0.0404	18567.2	18591.2	24.0	1.22	1.22	1.22	1761.7	22.9		
9-Feb-24	Fine	286.6	769.8	3.3679	3.4096	0.0417	16393.5	16417.5	24.0	1.24	1.23	1.23	1778.2	23.5		
15-Feb-24	Fine	294.4	765.5	3.3469	3.3920	0.0451	18615.2	18639.2	24.0	1.22	1.22	1.22	1752.8	25.7	177.0	260.0
20-Feb-24	Sunny	297.2	762.0	3.2777	3.3081	0.0304	18639.2	18663.2	24.0	1.21	1.21	1.21	1742.8	17.4		
26-Feb-24	Cloudy	290.9	766.8	3.3270	3.3905	0.0635	18663.2	18687.2	24.0	1.22	1.22	1.22	1763.0	36.0		
Note:	Bold Italic means A	Action Level exce	edance			-							Min	17.4		
	Bold Italic with une	derline means l	imit Level exceedance										Max	36.0		
													Average	25.1		

#### Location KER1 - Future Residential Development at Kerry Godown

	Weather	Air Temp.	Atmospheric	Filter W	'eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol.	Conc.	Action	Limit
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 )	Level (µ g/m3)	Level (µ g/m3)
6-Feb-24	Fine	291.0	764.8	3.3108	3.4355	0.1248	16369.5	16393.5	24.0	1.22	1.22	1.22	1759.2	70.9		
9-Feb-24	Fine	286.6	769.8	3.3555	3.3694	0.0139	16393.5	16417.5	24.0	1.23	1.23	1.23	1776.1	7.8		
15-Feb-24	Fine	294.4	765.5	3.3464	3.4822	0.1358	16417.5	16441.5	24.0	1.21	1.22	1.22	1750.9	77.6	172.0	260.0
20-Feb-24	Fine	297.2	762.0	3.2867	3.4090	0.1224	16441.5	16465.5	24.0	1.21	1.21	1.21	1739.8	70.3		
26-Feb-24	Cloudy	290.9	766.8	3.3497	3.4937	0.1440	16465.6	16489.6	24.0	1.22	1.22	1.22	1761.2	81.8		
Note:	Bold Italic means A	Action Level exce	edance										Min	7.8		
	Bold Italic with und	derline means L	imit Level exceedance										Max	81.8		
													Average	61.7		

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

	Weather	Air Temp.	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)			Level (µ g/m3)	Level (µ g/m3)
6-Feb-24	Rainy	291.0	764.8	3.3209	3.4317	0.1108	17021.7	17045.7	24.0	1.23	1.24	1.23	1778.1	62.3		
9-Feb-24	Fine	286.6	769.8	3.3537	3.3806	0.0270	17045.7	17069.7	24.0	1.25	1.24	1.25	1793.9	15.0		
15-Feb-24	Fine	294.4	765.5	3.6848	3.8018	0.1170	17069.7	17093.7	24.0	1.23	1.23	1.23	1770.3	66.1	157.0	260.0
20-Feb-24	Sunny	297.2	762.0	3.7121	3.8583	0.1461	17093.7	17117.7	24.0	1.22	1.22	1.22	1760.0	83.0		
26-Feb-24	Cloudy	290.9	766.8	3.3601	3.5279	0.1678	17117.7	17141.7	24.0	1.24	1.24	1.24	1780.0	94.3		
Note:	Bold Italic means A	ction Level exce	edance										Min	15.0		
	Bold Italic with und	<u>ferline</u> means L	imit Level exceedance										Max	94.3		
													Average	64.2		







APPENDIX G COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING

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



Issue Date : 19 Jun 2023

Report No.:00381Application No.:HP00253

# **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-08-11

Manufacturer: : SVANTEK

Other information	:	Model No.	SVAN 957
		Serial No.	23852
		Microphone No.	22454

Date Received	: 15 Jun 2023	
Test Period	: 16 Jun 2023 to 16 Jun 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 : 19 Jun 2023

Report No.:00381Application No.:HP00253

## **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	93.8	- 0.2	± 1.5
114.0	113.9	- 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

: 00361



Issue Date : 30 Mar 2023

: HP00236 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-12-04 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 580238 Microphone No. 570605 Data Bacalyad 77 Mar 2022

Test Period : 28 Mar 2023 to 28 Mar 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 : 30 Mar 2023

Report No.:00361Application No.:HP00236

## **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	94.2	+ 0.2	± 1.5
114.0	114.3	+ 0.3	± 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

: 00364



Issue Date : 03 Apr 2023

: HP00240 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-12-05 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 580287 Microphone No. 570610 ~~~~

Date Received	:	03 Apr 2023
Test Period	:	03 Apr 2023 to 03 Apr 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.

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 : 03 Apr 2023

Report No.:00364Application No.:HP00240

## **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	94.2	+ 0.2	± 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.

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



Issue Date : 02 May 2023

Report No.:00370Application No.:HP00242

# **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.: : SN-01-01

Manufacturer: : SVANTEK

Other information	:	Model No.	SVAN 979
		Serial No.	27189
		Microphone No.	25202

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

:

:



Issue Date : 02 May 2023

Report No.:00370Application No.:HP00242

## **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	114.0	± 0.0	± 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

:

:



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

: 00373



: 09 May 2023

Issue Date

Application No. : HP00247 **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-09-02 Manufacturer: : SVANTEK Other information : Model No. SV 30A Serial No. 10965 : 05 May 2023 Date Received Test Period : 08 May 2023 to 08 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

5

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

•

:



: 09 May 2023

Issue Date

Report No.:00373Application No.:HP00247

## **Certificate of Calibration**

Measuring equipment

Sound Calibrator	

#### Test Result

[	Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
	94.0	94.2	+ 0.2	± 0.3
	114.0	114.3	+ 0.3	± 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.

Report No.

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

: 00396



: 02 Aug 2023

Issue Date

Application No. : HP00278 **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-13-02 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001636 : 01 Aug 2023 Date Received Test Period : 01 Aug 2023 to 01 Aug 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

Lee Wal Kit Laboratory Manager

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

•

:



Report No.:00396Application No.:HP00278

## **<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	SVANTEK	
Model No.	SVAN 977	
Serial No.	92677	
Microphone No.	10352	
Equipment No.	N-14-01	

#### Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 0.3
114.0	114.3	+ 0.3	± 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 : 02 Aug 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

:

:



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	
•		
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.

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



Report No. : Application No. :	00406 Issue Date : 10 Aug 2023 HP00284	3	
	Certificate of Calibration		
Applicant	Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong		
Sample Description	Submitted equipment stated to be Sound Level Calibrator.		
	Equipment No.: : N-16-02		
	Manufacturer: : Hangzhou Aihua Instruments Co., Ltd.		
	Other information : Model No. AWA6021A		
	Serial No. 1023064		
Date Received	: 07 Aug 2023		
Test Period	09 Aug 2023 to 09 Aug 2023		
Test Requested	Performance checking for Sound Level Calibrator		
Test Method	The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.		
Test conditions	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%		
Test Result	: Refer to the test result(s) on page 2.		

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

 $\mathcal{C}$ 

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 : 10 Aug 2023

Report No.:00406Application No.:HP00284

## **<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	94.3	+ 0.3	± 0.3
114.0	114.4	+ 0.4	± 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	Location CKL1 - Flat 121 Cha Kwo Ling Village							
				Unit: dB	8 (A) (30-min)			
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Buto	Time	Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
1-Feb-24	11:20	Fine	75.5	79.2	63.8	72.4	73	
7-Feb-24	10:19	Cloudy	75.3	78.7	65.6	72.4	72	
15-Feb-24	10:00	Fine	72.7	76.9	60.2	72.4	61	
21-Feb-24	14:00	Fine	75.0	79.2	62.1	72.4	72	
27-Feb-24	16:15	Cloudy	72.6	76.1	61.7	72.4	59	

#### Location CKL2 - Flat 103 Cha Kwo Ling Village

				Unit: dB (A) (30-min)				
Date	Time Weather		Measured Noise Level			Baseline Level	Construction Noise Level	
Duto	Time	weather			_			
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
1-Feb-24	12:55	Fine	76.0	79.4	62.0	71.4	74	
7-Feb-24	9:46	Fine	76.2	79.6	64.9	71.4	74	
15-Feb-24	10:35	Fine	70.5	74.9	56.8	71.4	70.5 Measured ≦ Baseline	
21-Feb-24	14:35	Fine	69.6	73.3	58.3	71.4	69.6 Measured ≦ Baseline	
27-Feb-24	16:55	Cloudy	68.6	72.1	58.6	71.4	68.6 Measured ≦ Baseline	

Location KTD1	Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)								
				Unit:			dB (A) (30-min)		
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level		
Dato		Woulder	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
1-Feb-24	14:39	Sunny	70.1	71.3	68.5	78.0	70.1 Measured ≦ Baseline		
7-Feb-24	12:57	Cloudy	70.0	71.3	68.4	78.0	70 Measured ≦ Baseline		
15-Feb-24	15:09	Fine	68.1	69.8	66.0	78.0	68.1 Measured ≤ Baseline		
21-Feb-24	10:44	Sunny	72.1 73.1 7		71.0	78.0	72.1 Measured ≤ Baseline		
27-Feb-24	11:15	Cloudy	71.9 74.2 69.2		78.0	71.9 Measured ≤ Baseline			

#### Location KER1 - Future Residential Development at Kerry Godown

					Unit:	dB (A) (30-min)	
Date	Time	Weather	Meas	Measured Noise Level		Baseline Level	Construction Noise Level
Duito		W Galilor	L _{eq} L ₁₀ L ₉₀		L ₉₀	L _{eq}	L _{eq}
1-Feb-24	13:41	Fine	67.8	70.6	62.7	65.0	65
7-Feb-24	13:51	Cloudy	67.7	71.0	62.8	65.0	64
15-Feb-24	14:19	Fine	66.4	66.6	62.8	65.0	61
21-Feb-24	11:29	Sunny	68.9	72.2	62.5	65.0	67
27-Feb-24	10:20	Cloudy	74.4	75.4	72.7	65.0	74

#### 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	
Date	Time	weather						
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
1-Feb-24	15:28	Sunny	61.4	63.1	57.8	64.0	61 Measured ≦ Baseline	
7-Feb-24	11:28	Cloudy	63.0	65.4	58.3	64.0	63 Measured ≦ Baseline	
15-Feb-24	13:23	Fine	58.1	59.9	55.6	64.0	58 Measured ≦ Baseline	
21-Feb-24	9:51	Sunny	63.2	65.8	58.6	64.0	63 Measured ≦ Baseline	
27-Feb-24	13:30	Cloudy	58.2	60.5	54.1	64.0	58 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 240201 Checklist Reference Number 240201 Date 01 February 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.	
	<ul> <li><i>D. Construction Noise Impact</i></li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	E. Waste/Chemical Management	
240201-R1	<ul> <li>Drip tray should be provided for oil/chemical containers to prevent leakage. (Top of WVB)</li> </ul>	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 Feelen	
	<ul> <li>H. Marine Ecology</li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	s ito environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:240125), all the items have been rectified.	

	Name	Signature	Date
Recorded by	Eric Hung	LAR	01 February 2024
Checked by	Karina Chan	Julle	02 February 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 mormation				
Checklist Reference Number	240208			
Date	8 February 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	
240208-R1	• Waste chemical containers were observed in the WVB.	E2ii
240208-R2	• General refuses were observed at the rooftop of WVB.	E1iii
	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.:240201), all the items have been rectified.	

	Name	Signature	Date
Recorded by	Alex Ng	Alr	8 February 2024
Checked by	Karina Chan	Zelle	9 February 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 240215 Checklist Reference Number 240215 Date 15 February 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	
240215-R1	• Drip tray should be provided to prevent chemical leakage. (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.:240208), all the items have been rectified.	

	Name	Signature	Date
Recorded by	Eric Hung	LAR	15 February 2024
Checked by	Karina Chan	Julle	16 February 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	240222	
Date	22 February 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.:240215), all the items have been rectified.	

	Name	Signature	Date
Recorded by	Alex Ng	Alr	22 February 2024
Checked by	Karina Chan	Zelle	23 February 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 motimation		
ary 2024 (Thursday)		
2:00		

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	
240229-R2	• Cement bags should be covered when not in used.	C20
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
240229-R1	• Accumulation of rubbish was observed at tunnel entrance.	E1i
240229-R3	• Drip tray should be provided for chemical containers and accumulation of containers were observed.	E2ii, E9
	F. Visual and Landscape	
	<ul> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	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.:240222), all the items have been rectified.	

	Name	Signature	Date
Recorded by	Alex Ng	Alr	29 February 2024
Checked by	Karina Chan	Julle	1 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

inspection into mation		
Checklist Reference Number	240216	
Date	16 February 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	
	<ul> <li>No environmental deficiency was identified during site inspection</li> </ul>	
	I. Others	
	• Follow up on the previous session (Ref No.:230112), no major environmental deficiency was	
	identified during site inspection.	

	Name	Signature	Date
Recorded by	Alex Ng	Ali	16 February 2024
Checked by	Checked by Karina Chan		17 February 2024

APPENDIX J EVENT AND ACTION PLANS

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

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

	Action									
Event	ET	IEC	ER	Contractor						
Limit level 1. Exceedance for one sample	<ul> <li>7. If exceedance continues, arrange meeting with IEC, Contractor and ER;</li> <li>8. If exceedance stops, cease additional monitoring.</li> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>2. Inform the IEC, ER, and Contractor;</li> <li>3. Repeat measurement to confirm finding;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. Assess effectiveness of</li> </ul>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET, ER and Contractor on possible remedial measures;</li> <li>Advise the ER and ET on the effectiveness of the proposed remedial measures;</li> </ol>	1. Confirm receipt of notification of exceedance in writing;       2. Notify Contractor;       3. Ensure remedial measures properly implemented.	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to the ER and copy to the ET and IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if</li> </ol>						
	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	<ol> <li>Take immediate action to avoid further exceedance;</li> </ol>						
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     Event/Action Fian for Construction Noise Monitoring										
Event	Action									
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	Action								
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	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n Stages	Status
						D	С	0	
Air Quality Imp	act			•					
<u><u>S2.3.1.1</u></u>	The specific mitigation comprises the following: watering of the construction areas 12 times per day to reduce dust emissions by 91.7%, with reference to the "Control of Open Fugitive Dust Sources" (USEPA AP-42). The amount of water to be applied would be 0.91L/m ² for the respective watering frequency;	emission during	conveyor belts and	Contractor and Sub- contractors	APCO / EIAO	Y	Y		۸
	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.								^
\$2.3.1.2	1	To minimize dust emission during construction works	All relevant works sites	Contractor and Sub- contractors	APCO / EIAO	Y	Y		^
	unpaved roads, particularly during dry weather;								
	Use of frequent watering for particularly dusty construction areas and areas close to ASRs;								^
	Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines;								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	
	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;								^
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								^
	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;								^
	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.		• • • • •	8	Implementation Agent	Relevant Standard or Requirement	I Implementation Stages		n Stages	Status
						D	C	0	
Noise Impact									
S3.4.1.1	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		٨
\$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		۸
\$3.4.1.1	Use of enclosures with covers at top and three sides and a surface density of at least $10 \text{kg/m}^2$ 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; Mobile plant, if any, should be sited as far from NSRs as possible; 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;	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		A A A

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	
						D	С	0			
	Use of site hoarding as a noise barrier to screen noise at low level NSRs;								^		
	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	-							^		
	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities.								^		
	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				1							
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		Λ		
	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	Implementation 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 0.1m ³ /s, a sedimentation basin of 30m ³ would be required and for a flow rate of 0.5m ³ /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;								۸
	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;								*
	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;								٨

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			Status	
						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.								٨

K-6

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	I Implementation Stages			Status
						D	С	0	
S4.2.1.1 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 onsite 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)
S4.2.1.1	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;	-							N/A
	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 substances (such as TPH) to an undetectable range;								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	1 0		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
S4.2.1.1	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);								٨
	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	Implen	nentatio	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, if mixed with inert fill material, to be disposed to a public filling area) and disposal at landfill should be the last resort.								N/A(1)
S4.2.1.1	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 vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;		Barging Point	Contractors and Sub- contractors	EIAO-TM WPCO		Y		N/A(1)
	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
S4.2.1.1	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		٨

EM&A Ref.		Objectives of the Recommended         Location/Timing         Implementation           Measures & Main Concern to Address         Concern to Address         Agent	led Main	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		Status	
						D	С	0	
\$4.2.1.1	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)
S4.2.1.1	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.								^

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	C	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.								N/A(1)
Fisheries						(	-		
\$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			n Stages	Status
						D	С	0	
Landscape and V	Visual								
\$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		۸
\$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		۸
\$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		Implementation Agent	Relevant Standard or Requirement	Impler	Status		
						D	C	0	
S7.2.1.2	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	te							ı – I	
\$8.2.1.1 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		Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	C	0	
Waste Managem	ient Implication						1	<u> </u>	
\$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			Status
						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		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	•	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		^
\$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		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	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)
\$9.2.1.2	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
\$9.2.1.2	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 Stage		Implementation Stages S	
-----------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------	--------------------------------------------------	-------------------------	-----------------------------------------------------------------------------------	----------------------	---	-------------------------	--------
						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	•	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		Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		٨
\$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			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.	To properly store the 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		^

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	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		٨
\$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		۸
\$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	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the 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	/ throughout construction	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	Implementation 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.	To ensure proper control, all waste is removed from site areas as appropriate and illegal disposal of waste is not being undertaken	All areas / throughout construction period	Contractor	EIAO TM		Y		^

Remarks: EM	&A Programme under EP-451/2013
D	Design
С	Construction
Y	Yes
0	Operation
^	Compliance of mitigation measure;
N/A N/A(1)	Not applicable at this stage; 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**: February 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
--------------------------------------------------------------------------------------------------	-------------------

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.	<ul> <li>Training regarding the loading and unloading height control was provided to the labourers to ensure dusty materials are transported under a minimum practical height.</li> <li>Water sprays system was installed around the location of complaint to prevent dust generated from wind erosion on the stockpile.</li> <li>Contractor was reminded to further enhance the dust mitigation measures to minimize the dust nuisance.</li> </ul>	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	<ul> <li>Noise barrier was erected between noise source and the PWCL building.</li> <li>Construction programme was reviewed as to minimize operation of PME nearby the PWCL building</li> <li>Contractor was recommended to implement the noise mitigation measures and other good site practices to minimize the noise nuisance.</li> </ul>	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.	<ul> <li>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.</li> </ul>	Noise	Closed
#N10	Launching Shaft and Barging Point	28 February 2023	A Complaint of Noise Nuisance caused by the nighttime construction	<ul> <li>The cause of the noise nuisance may cause by the operation of Derrick Barge and the Conveyors.</li> <li>No limit level exceedance was recorded for additional noise monitoring and the weekly construction noise monitoring.</li> </ul>	Noise	Closed

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
			activities was received.	<ul> <li>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.</li> </ul>		
		7 March 2023	Follow up complaint from the same complainant was received and he/she informed that the construction noise nuisance at 09:50pm.	<ul> <li>The cause of the noise nuisance may cause by the operation of Derrick Barge and the Conveyors.</li> <li>No limit level exceedance was recorded for additional noise monitoring and the weekly construction noise monitoring.</li> <li>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.</li> </ul>	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.	<ul> <li>There is no direct evidence that the Silt/ Dirt being swept into the sea from the barge of T2.</li> <li>The following recommendations are made to further enhance the mitigation measures:</li> <li>Provide regular training to site personnel on proper waste management and appropriate handling procedures.</li> <li>Provide sufficient waste disposal points and regular collection for disposal.</li> <li>Closely monitor the barge operation.</li> <li>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.</li> </ul>	Water	Closed
#N12	Launching Shaft Area, Barging Point, Cheung Yip Street	17 November 2023	A verbal complaint regarding the noise nuisance, generated from the	<ul> <li>The cleaning work using the water jetting unit may be the cause of noise nuisance.</li> <li>No limit level exceedance was recorded for additional noise monitoring and the weekly construction noise monitoring.</li> <li>In addition, the Contractor shall review the construction schedule, priorities the work</li> </ul>	Noise	Closed

Annondiv I Summon	of onvironmental	amplaint warnin	a summon and notificatio	n of successful procession
Appendix L – Summary	y ul chivil unnental (	complaint, wai min	g, summon and nouncado	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.	<ul> <li>There is no direct evidence that the dead fish floating near the Kwun Tong Pier were caused by the construction activities.</li> <li>The following recommendations are made to contractor to further enhance the mitigation measures: <ul> <li>1) Conduct regular maintenance for wastewater treatment facilities to maintain the quality of effluent.</li> <li>2) Conduct regular water quality monitoring</li> <li>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.</li> </ul> </li> </ul>	Water	Closed

APPENDIX M SUMMARY OF EXCEEDANCE

## **Appendix M – Summary of Exceedance**

#### **Reporting Month:** February 2024

#### (A) Exceedance Report for Air Quality

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

#### (B) Exceedance Report for Construction Noise

#### Action Level for Construction Noise

No Action Level exceedance was recorded due to the 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)

APPENDIX N TENTATIVE CONSTRUCTION PROGRAMME

#	Activity Name	Dur	Start	Finish					_			,				_			2024	_		
					nuary 14	21	28	04	Febr		8 2	25	Ma 03 10	arch 17	24	31	07	April 14	21	28	0	)5 [ 1
1	ED/2018/04 TRUNK ROAD T2	145	02-Jan-24	29-Jun-24													- - - -					1
2	WEST VENTILATION BUILDING [WVB]	134	02-Jan-24	17-Jun-24																		
3	WVB Construction	122	16-Jan-24	17-Jun-24																		+
4	GBP resubmission and approval	37	16-Jan-24*	01-Mar-24			:			:			GBP resub	omissic	on and	approv	val					
5	E&M	107	17-Jan-24	30-May-24																		
6	WVB - E&M works (G/F)	83	17-Jan-24*	30-Apr-24												: :					WVB	8 - E&N
7	WVB - E&M works (1/F)	84	16-Feb-24*	30-May-24	1										1		1					
8	External Works / EVA	96	19-Feb-24	17-Jun-24	1																	+
9	UU works and Backfilling	36	19-Feb-24	03-Apr-24													JU wo	rks an	dBack	filling	9	
10	Access Road Construction	36	05-Apr-24	18-May-24	1												;		;; ; ;		j ;	
11	Fire Hydrants confirmation from FSD for FSI inspection	0		01-Jun-24	1																	
12	EVA Construction	24	20-May-24	17-Jun-24	1											++			· · · · · · · · · · · · · · · · · · ·			
13	Essential Criteria for FSI	133	02-Jan-24	15-Jun-24	1																	
14	Power Engerization	90	05-Feb-24	30-May-24																		
15	CLP Final Inspection / CLP Tx Rm - Handover to CLP	0		05-Feb-24									CLP Tx Rr				þ					
16	CLP Mobilization	45	06-Feb-24	05-Apr-24	1							<u></u>				;   .	CLP	Mobili	zation			
17	CLP Installation	45	06-Apr-24	30-May-24																		
18	CLP Tx Rm - Power On	0	· · ·	30-May-24	1																	
19	Dangerous Goods Licenses	133	02-Jan-24	15-Jun-24	1											++						
20	Emergency Generator Room - ABWF works	34	02-Jan-24*	09-Feb-24		() ;			Em	ergen	icy Ge	ener	ator Room	- ABW	F work	s						
21	WVB - Genset & Oil Tank delivery on site	0		01-Mar-24	+							•	WVB - Gei									
22	WVB - Genset & Oil Tank Installation and T&C	48	02-Mar-24	02-May-24	+																I WV	/B - G
23	Receipt of report of compliance	0		10-May-24																		♦ Re
24	Submission of Application	7	03-May-24	10-May-24												+						🗖 Si
25	DG Licenses Inspection (Vent) by FSD	0		20-May-24	+											;						
26	DG Licenses Inspection (Layout) by FSD	0		07-Jun-24																		
27	Issuance of Certificate from FSD	0		15-Jun-24	+																	
28	Fireman Lift	87	06-Feb-24	27-May-24																		
29	Lift Installation (by OTIS)	51	06-Feb-24	12-Apr-24												÷		Lift In	stallati	on (l	by O	TIS)
30	T&C (by OTIS) & Issue WR1 / Submisison of LE5	24	13-Apr-24	11-May-24	+											; <b> </b>			·			💻 T
31	EMSD Inspection	12	13-May-24	27-May-24																		
32	Issuance of Permit by EMSD	0		27-May-24											·							
33	Water Supply	121	15-Jan-24	15-Jun-24										·								
34	FS Water (Inside WVB)	109	30-Jan-24	15-Jun-24												++						+
35	542 Approval from WSD	0		30-Jan-24*			♦ 5	42 Ap	oprova	l from	WSE	)   [				++						
36	Submission WW046 part 1	0		01-Feb-24	+		•	Subr	missio	n WM	/046 p	part	1			++						
37	Submission of WW046 Part IV for FS Water	0		30-Apr-24	+															•	Subn	nissior
38	Inspection for FS Water & Issuance of WW046 part V (a) by WSD	12	17-May-24	30-May-24	+												: 					
39	Pipe Sterilization & Water Sampling	6	31-May-24	06-Jun-24	+											+	 					
40	Water Sample Testing	3	07-Jun-24	11-Jun-24	+											; <b> </b>						
41	Issuance of WW046 Part V(b) from WSD	0		11-Jun-24	+												- - - -					
Pa	ge 1 of 8	1	EC	0/2018/04 for	De	velo	pm	ents	s at	Soi	uth .	Ар	oron		ks	;1	;	;	BOL	JY	GUI PUB	ES
				Three N	/lon	ths F	Kol	ling	Pro	gra	mm	ne	(⊦eb-24	)								

May				Ju	ne				July	_	
12	19	26	02	09	16	23	30	07	14	21	28
								App	endi	хA	
		- <b>-</b>							•	   	
									: r	, ,	
									: 	 	.¦
0.14											
&M we	orks (	G/F)							: : : :	: : : !	
1			WVB -	E&M	works	(1/F)			5 5 5	8	
									, , ,	; ;; ;	
	Acc	ess R	oad Con	struct	ion						
	7.00		: :			firmat	ion fro	m EQE	) for E	Cl ino	
			♦ Fire I	туша					ד זטו ק	si ins	pe
		1	1 1		EV	A Con	structi	on	1	1 1 1	-
									 ! !	     	
									, , ,	; ;; ;	
										: : :	
			CLP In						1	8	
		•	CLP Tx	(Rm -	Powe	r On				     	
								,	; ;	; ;; ;	
									, 	, 	
			·								
									, , , ,	: : : !	
Gens	et & C	Dil Tan	k Install	ation	and Ta	\$C			1 1 1	8 8 8 8	
Recei	pt of	report	of comp	liance	;			• • • • • • • • • •	•	! ! !	
Subm	issio	n of Ap	plication	n					, ,	1   1 	
		-	nses Ins		nn (Ve	nt) hv	FSD		: 	: 	
	• 0							(1.0.10)	ut) by		
: : :			•	DG LI		s Inspe					
				•	Issua	ance o	Certi	ficate f	rom F	SD	
T&C	(bv (	TIS) 8	& Issue \	WR1	Subr	nisison	ofLE	5			
			MSD Ins				[	-		: !	
									: : 	: : !	
		◆ IS	suance	ot Per	mit by	EMSL	1		: : :	: : :	
		1 1 1							1 1 1 1	1	
							1		r	, · ; ;	
							+				
			· · · · · · · ·						: 	: 	÷
ion -f	1.0.11.0.17		4 N/ £- )		ota-					: : :	
	VVVV	и очо	rt IV for								
		1	Inspect	ion fo	r FS V	Vater a	& Issu	ance c	fWW	046 pa	art
		[	F	Pipe S	teriliza	ition &	Wate	Samp	bling	   	
				<b>–</b> W	ater S	ample	Testir	ng			 
						e of W		-	(h) fro	m WS	<u>.</u>
		-	-4							1	:
		D 31-Ja	ate	Rev.	vision		Check	ed	Арр	roved	
		ง I-Ja	11-24	rev.	A	SP	d				

				nuai			Febru	lary			March				April			Ma	1				ine			July	
loguance of WWW01005 Cartificate for EQ Water from WOD	0		15-Jun-24	14		28	04 11	18	25	03	10 1	7	24 3	31	07 14	21	28 05	12	19	26	02	09	16		30 07 WWO100	14 5 Certifi	
Issuance of WWO1005 Certificate for FS Water from WSD	0	40 1 04					····-																		e insde W		
Connect pipe insde WVB to Master Meter Cabinet	4	12-Jun-24	15-Jun-24		·		·····		· · · · · · · · · · ·			·												iect hib			asit
FS Lead-in Watermain	102	15-Jan-24	23-May-24	,			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · ·																·		
Obtain XP	0		15-Jan-24*		Obtain XP				·						<u> </u>												
WVB - External Watermain	71	16-Jan-24	15-Apr-24				· · · · ·		·						-		xternal Wa								·		
Submission WW046 Part IV for water connection	0		15-Apr-24		·		· · · · · · · · · · · · · · · · · · ·	- <del>-</del>	· · · · · · · · ·	· · · · · ·					•	Submissi	ion WW040	:		:	:	:					
Inspection for FS Lead-in watermain & issuance of WW046 part V	12	27-Apr-24	11-May-24									·									:				ance of W	W046 p	art
Pipe Sterilization & Water Sampling	6	13-May-24	20-May-24							· · · · · · · · · · · · · · · · · · ·										Pipe Ste	1		1				
Issuance of WW046 Part V(b) from WSD	0		23-May-24																			:		V(b) fr	om WSD		
Water Sample Testing	3	21-May-24	23-May-24				:													Wate	rSamp	le Tes	ting		: : :		
Final T&C and FSI Inspection	0	17-Jun-24	17-Jun-24					1				1	1		1			1		1 1 1	1 1 1	1				1	
Submit Application Form (FS501)	0		17-Jun-24																				♦ Sul	bmit Ap	plication F	orm (FS	350
AUNCHING SHAFT	116	23-Jan-24	17-Jun-24					1 1 1		··					· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1				1 1 1 1		1				1	
Cell 1 & 2	32	09-May-24	17-Jun-24		·!													+							·		
OHVD & Top Slab	32	09-May-24	17-Jun-24		· · · · · · · · · · · · · · · · · · ·																						
Waterproofing + Backfilling stage 1 (-10.5 mPD)	32	09-May-24	17-Jun-24				· · · · · · <del>;</del> · · · · · ·																🗖 Wa	terproc	ofing + Bac	kfilling :	sta
Cut & Cover	114	23-Jan-24	14-Jun-24		·																				·		·
External wall pour 1 + 2	18	23-Jan-24	15-Feb-24					Extern	nal wall	pour	1 + 2																
Roof Slab formworks	12	16-Feb-24	29-Feb-24							Roof S	lab form	works										     			·		
Trimming Roof Slab	24	01-Mar-24	28-Mar-24										🗖 Trir	mmin	g Roof S	Slab											
Roof Slab RC	30	02-Apr-24	08-May-24				· · · · · · · · · · · · · · · · · · ·											Roof	Slab R	۶C							
Roof Slab formworks dismantling + waterproofing	18	09-May-24	30-May-24		·		·		·												Roof S	Slab fo	rmwork	ks dism	antling + v	vaterpro	ofi
LSCC Manhole and Gully construction	12	31-May-24	14-Jun-24		·					· · · · · ·													1 1		ole and Gu		
Miscellanneous	36	23-Feb-24	09-Apr-24																		: 	: 			I 		
Mass fill (Bottom Pipe Ladder)	36	23-Feb-24	09-Apr-24										+		Mass	fill (Botto	om Pipe La	dder)									
BM TUNNELLING	136	04-Jan-24	21-Jun-24				·											· · · · · · · · · · · · · · · · · · ·	·						·		
S1282 Eastbound	120	22-Jan-24	20-May-24		·		· · · · · · · · · · · · · · · · · · ·		·										· - <del>:</del>						·		
TBM Excavation CH8609-8619 10m @1.4m/d	7	22-Jan-24 22-Jan-24	20-May-24 28-Jan-24			TRM	Excavatio	n CH86	609-86	10 10n	n @1.4m	h									; ; ; ; ;	: 					
0	1											-	avation	СНЯ	610-866	3 44m @	1 /m/d					: : :				-	
TBM Excavation CH8619-8663 44m @ 1.4m/d	31	12-Feb-24	13-Mar-24		·		·····								013-000	5 <del>41</del> 11 (g	TBM E	voovot		10663 0	700 46	~ @	1.4m/d				
TBM Excavation CH8663-8709 46m @ 1.4m/d	33	28-Mar-24	29-Apr-24															xuaval			:	-	: :		9m @ 1.4ı	m/d	
CH 8709-8738 - Rock excavation 29m @ 1.4m/d	21	30-Apr-24	20-May-24	_																	-0130		N EXCav		9111 @ 1.41	u	
S1281 Westbound	136	04-Jan-24	21-Jun-24		·¦								4					<del>.</del>									
WB TBM Main Drive repair	45	31-Jan-24	15-Mar-24		· · · · · · · · · · · · · · · · · · ·										e repair	0110040						: : :					
01 Mar 24 WB TBM re-start CH8610	0	16-Mar-24									• U	1 Mar	24 WB	S I BIV	re-start	CH8610		<del>.</del>	<del>.</del>								
Pipe relocation	132	04-Jan-24	21-Jun-24						·																·		
Pipe relocation - R075-R0120	12	04-Jan-24	17-Jan-24		Pipe reloc																				: : :		
Pipe relocation - R021-R0164	12	18-Jan-24	31-Jan-24	[		Pip	pe relocati		: 1:							· · · · · · · · · · · · · · · · · · ·									L L		
Pipe relocation - R0165-R0209	12	01-Feb-24	17-Feb-24					Pipe	reloca		R0165-R											: : : :			: : :		
Pipe relocation - R0210-R0255	12	19-Feb-24	02-Mar-24							Pipe	relocatio											1					-
Pipe relocation - R0026-R0300	12	04-Mar-24	16-Mar-24		· · · · · · · · · · · · · · · · · · ·						<b></b> P	ipe re	locatio		0026-R0												
Pipe relocation - R0301-R0346	12	18-Mar-24	03-Apr-24											🛛 Pip	e reloca	ition - R0	301-R0346	6									
of 8			7		. 1	· · ·		-		. 1		1						-	·	D	ate	R	evision		hecked	App	OV
Planned Bar		FL EL	)/2018/04	l Tri	unk Ro	ad	T2 an	d Infi	rastr	uctu	ire W	orks	3							31-Ja	n-24	Rev.	A	SPa	a		_
Critical Bar					evelopr								-			BOI	UYGUE	S									

Three Months Rolling Programme (Feb-24)

ctivity Name	Dur	Start	Finish	
				huary February March April May June July 14 21 28 04 11 18 25 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 07 14 21 2
Pipe relocation - R0347-R0392	12	05-Apr-24	18-Apr-24	Pipe relocation - R0347-R0392
Pipe relocation - R0393-R0437	12	19-Apr-24	03-May-24	Pipe relocation - R0393-R0437
Pipe relocation - R0438-R0483	12	04-May-24	18-May-24	Pipe relocation - R0438-R0483
Pipe relocation - R0484-R0528	12	20-May-24	05-Jun-24	Pipe relocation - R0484-R0528
Pipe relocation - R0529-R0573	12	07-Jun-24	21-Jun-24	Pipe relocation - R0529-R0573
SUB-SEA TUNNEL CROSS PASSAGE [CP]	60	16-Mar-24	04-Jun-24	
Tympanum Civil Works	60	16-Mar-24	04-Jun-24	
Eastbound	24	16-Mar-24	17-Apr-24	
CP25 - EB - Tympanum Civil works CH8489	24	16-Mar-24	17-Apr-24	CP25 - EB - Tympanum Civil works CH8489
Westbound	28	27-Apr-24	04-Jun-24	
CP25 - WB - Tympanum Civil works CH8499	28	27-Apr-24	04-Jun-24	CP25 - WB - Tympanum Civil works CH8499
INTERNAL STRUCTURES	133	04-Jan-24	18-Jun-24	
Service Gallery B	42	15-Feb-24	09-Apr-24	
Eastbound	0	15-Feb-24	15-Feb-24	
EB ISIG re-start at SG0820E	0	15-Feb-24	101 60-24	◆ EB ISIG re-start at SG0820E
Westbound	0	09-Apr-24	09-Apr-24	
	0	•	09-Apr-24	◆ WB ISIG re-start at SG0808W
WB ISIG re-start at SG0808W	0	09-Apr-24	40 1 04	
Corbel	84	29-Feb-24	18-Jun-24	
Eastbound	84	29-Feb-24	18-Jun-24	
EB Corbel re-start	0	29-Feb-24		EB Corbel re-start
EB Corbel construction CH8444-8573 129m	84	29-Feb-24	18-Jun-24	EB Corbel construction CH8444-
Westbound	0	23-Apr-24	23-Apr-24	
WB Corbel re-start	0	23-Apr-24		◆ WB ¢orbel re-start
Thermal Barrier	113	18-Jan-24	07-Jun-24	
Crown	12	22-Jan-24	03-Feb-24	
Westbound @ 7.5 R/day	12	22-Jan-24	03-Feb-24	
EB Crown Fire Board transfer to WB	12	22-Jan-24	03-Feb-24	EB Crown Fire Board transfer to WB
Road Level	113	18-Jan-24	07-Jun-24	
Eastbound	83	18-Jan-24	02-May-24	
OHVD Soffit	83	18-Jan-24	02-May-24	
Road level Fire Board installation CH6642 to CP21 1,458m	@ 13 83	18-Jan-24*	02-May-24	Road level Fire Board installation CH6642 to CP21 1,458m @ 13.2m/d
NCPS	38	22-Jan-24	08-Mar-24	
Road level Fire Board installation CH6642 to CH8976 2,334m		22-Jan-24*	08-Mar-24	Road level Fire Board installation CH6642 to CH8976 2,334m @ 13.2m/d D&N
Westbound	-	08-Feb-24	07-Jun-24	
NCPS		08-Feb-24	07-Jun-24	
WB NCP Fire Board @ 13.2m/d CH6703-7109 (406m) up to C		08-Feb-24	18-Mar-24	WB NCP Fire Board @ 13.2m/d CH6703-7109 (406m) up to CP11
WB NCP Fire Board @ 13.2m/d CH7109-7607 (498m) up to C		23-Apr-24	07-Jun-24	WB NCP Fire Board @ 13.2m/d CH7109-7
OHVD Slab	12	31-Jan-24	16-Feb-24	
Eastbound				
	12	31-Jan-24	16-Feb-24	ISIG Transfer to WB
ISIG Transfer to WB	12	31-Jan-24	16-Feb-24	
Parapet Installation	131	04-Jan-24	15-Jun-24	
e 3 of 8 Planned Bar Critical Bar		ED	for	Trunk Road T2 and Infrastructure Works Developments at South Apron Months Rolling Programme (Feb-24)

# /	Activity Name	Dur	Start	Finish	2024           nuary         February         March         April           44         24         24         24         24
124	Eastbound	139	07-Jan-24	26-May-24	14         21         28         04         11         18         25         03         10         17         24         31         07         14         21         28         05
125	EB CH 8609-8738 - Parapet installation 129m	92	07-Jan-24	07-Apr-24	EB CH 8609-8738 - Parapet in
126	EB CH 8738-8832 - Parapet installation 94m	47	08-Apr-24	26-May-24	
127	Westbound	127	04-Jan-24	15-Jun-24	
128	NCPS	127	04-Jan-24	15-Jun-24	
129	Parapet installation - R0301-R074 (44 parapets) up to CP8	19	04-Jan-24	25-Jan-24	Parapet installation - R0301-R074 (44 parapets) up to CP8
130	Parapet installation - R075-R0120 (46 parapets) up to CP9	19	18-Jan-24	08-Feb-24	Parapet installation - R075-R0120 (46 parapets) up to CP9
131	Parapet installation - R021-R0164 (44 parapets) up to CP10	19	01-Feb-24	26-Feb-24	Parapet installation - R021-R0164 (44 parapets) up to CP10
132	Parapet installation - R0165-R0209 (45 parapets) up to CP11	19	19-Feb-24	11-Mar-24	Parapet installation - R0165-R0209 (45 parapets) up to
133	Parapet installation - R0210-R0255 (46 parapets) up to CP12	19	04-Mar-24	25-Mar-24	Parapet installation - R0210-R0255 (46 pa
134	Parapet installation - R0711-R0756 (46 parapets) up to CP13	19	18-Mar-24	12-Apr-24	Parapet installation - R071
135	Parapet installation - R0026-R0300 (45 parapets) up to CP14	19	05-Apr-24	26-Apr-24	Parapet instal
136	Parapet installation - R0301-R0346 (46 parapets) up to CP15	19	19-Apr-24	11-May-24	
137	Parapet installation - R0347-R0392 (46 parapets) up to CP16	19	04-May-24	29-May-24	
138	Parapet installation - R0393-R0437 (45 parapets) up to CP17	19	20-May-24	15-Jun-24	
139	CKL Pilot Tunnel	96	15-Feb-24	13-Jun-24	
140	Westbound	96	15-Feb-24	13-Jun-24	
141	WB Pilot TBM bulkhead construction 1st bulkhead + water filling	48	15-Feb-24*	15-Apr-24	WB Pilot TBM bulkhead
142	WB Pilot TBM bulkhead construction 2nd bulkhead (alap)	48	16-Apr-24	13-Jun-24	
143	CHA KWO LING TUNNEL	133	11-Jan-24	25-Jun-24	
144	Eastbound	92	11-Jan-24	06-May-24	
145	Type A2	40	27-Jan-24	16-Mar-24	
146	EB D&Br Dismantling Cavern excv + overbreak	40	27-Jan-24	16-Mar-24	EB D&Br Dismantling Cavern excv + overbreak
147	Type A1	92	11-Jan-24	06-May-24	
148	EB Type A1 Crown (10bays, 6d/bay)	60	11-Jan-24	23-Mar-24	EB Type A1 Crown (10bays, 6d/pay)
149	EB Type A1 to C1-C2 fwks adjustment 1st stage	16	25-Mar-24	16-Apr-24	EB Type A1 to C1-C2 t
150	EB Type A1 to C1-C2 fwks adjustment 2nd stage	8	26-Apr-24	06-May-24	EB T
151	Туре А	24	16-Feb-24	14-Mar-24	
152	OHVD	24	16-Feb-24	14-Mar-24	
153	EB Type A OHVD Slab fwk dismantling	24	16-Feb-24	14-Mar-24	EB Type A OHVD Slab fwk dismantling
154	Туре С	8	17-Apr-24	25-Apr-24	
155	EB Type C1 Crown (1 bay 8d/bay)	8	17-Apr-24	25-Apr-24	EB Type C1 Cl
156	Westbound	97	02-Feb-24	04-Jun-24	
157	Туре А2	95	02-Feb-24	01-Jun-24	
158	WB Type A2 Crown (4 bays @ 4d/bay)	16	02-Feb-24	23-Feb-24	WB Type A2 Crown (4 bays @ 4d/bay)
159	WB Type A2 Crown Fwks dismantling	12	24-Feb-24	08-Mar-24	WB Type A2 Crown Fwks dismantling
160	WB 1st bulkhead	36	15-Feb-24*	27-Mar-24	WB 1st bulkhead
161	WB 1st bulkhead water filling	12	28-Mar-24*	15-Apr-24	WB 1st bulkhead water
162	WB 2nd bulkhead	36	16-Apr-24	01-Jun-24	
163	Type A1	69	09-Mar-24	04-Jun-24	
164	WB Type A1 OHVD Fwk assembly	24	09-Mar-24	10-Apr-24	WB Type A1 OHVD Fwk as
Pa	je 4 of 8 ← Milestone Planned Bar Critical Bar		EC	for	Trunk Road T2 and Infrastructure Works Developments at South Apron Months Rolling Programme (Feb-24)

May				Ju					July		
12	19	26	02	09	16	23	30	07	14	21	28
								: : 			
installa	tion 1	29m						5 5 5			
4-		EB	CH 87	38-88	32 - Pa	arapet	install	ation 9	)4m		
			· · · · · · · · · · · · · · · · · · ·								
			· · · · · ·					: : :			
								, , ,			
								: : :			
			· · · ·					L			
to CP1	1							: 			
parapets	s) up	to CP	12					: : :			
711-R0	756 (	46 pa	rapets)	up to	CP13			r			
allation			1 1			un to		: 			
								: ; t	ا بينيو ا		
Parap	et ins	stallati	on - R(	)301-F	20346	(46 pa	rapets	) up to	CP15	)	
			Parape	t instal	lation	- R034	7-R03	392 (46	5 parar	bets) u	p
		- 									
		:			Para	petins	allatio	on - Ru	)393-F	(0437	(4
								r			
			·								
						~					
ad cons	tructi	ion 1s	t bulkh	ead +	water	tilling		; ;			
					WB Pi	lot TB	M bulk	head o	constru	iction 2	2n
								: : :			
								1 1 1			
			÷					 ,			
								: : L			
-								1			
			· · · · · · · · · · · · · · · · · · ·					•			
								, , ,			
								, , ,			
2 fwks a	adjust	tment	1st sta	ge				1			
Туре А	1 to	C1-C	2 fwks	adiustr	nent 2	nd sta	de	L			
							<b>M</b>				
		, , , ,	     					: : : =			
								1			
								, , ,			
								, 			
1											
Crown	(1 ba	y 8d/l	oay)								
								L !			
								: : •			
		1 1						1 1			
			·				+	   			
		¦									
		1									
er filling			· · · · · · · · · · · · · · · · · · ·				+	L ; ;	L		
3			י ח/או ז	)nd hu	lkhaa	4					
1			VVB	2nd bu	ikilea(	4		: : :			
	-	1	· ·					1			
ssembl	v										
	.,	1						!			
		Da	ate	Re	evision		Check	ed	App	roved	
		31-Jai	n-24	Rev.	A	SF	a				
				•							
s)											

#	Activity Name	Dur	Start	Finish	2024 nuary February March April
					14 21 28 04 11 18 25 03 10 17 24 31 07 14 21 28 05
165	WB Type A1 OHVD Slab	45	11-Apr-24	04-Jun-24	
166	CKL Internal Structures	94	29-Feb-24	25-Jun-24	
167	Fire Board - Crown	50	29-Feb-24	02-May-24	
168	Branch Tunnnel Fire Board	22	29-Feb-24*	25-Mar-24	
169	EB Type A Fire Board	22	06-Apr-24	02-May-24	4 EB Type
170	Fire Board - Road Level	22	30-May-24	25-Jun-24	<b>1</b>
171	Branch Tunnnel Fire Board	22	30-May-24*	25-Jun-24	4
172	EAST VENTILATION BUILDING [EVB]	134	15-Jan-24	29-Jun-24	<b>1</b>
173	EVB Construction	134	15-Jan-24	29-Jun-24	1 I I I I I I I I I I I I I I I I I I I
174	ABWF	121	15-Jan-24	14-Jun-24	
175	EVB - ABWF works (B)	36	15-Jan-24*	28-Feb-24	4 EVB - ABWF works (B)
176	EVB - ABWF works (LG3)	12	29-Feb-24	13-Mar-24	
177	EVB - ABWF works (LG2)	13	14-Mar-24	28-Mar-24	4 EVB - ABWF work\$ (LG2)
178	EVB - ABWF works (LG1)	60	02-Apr-24	14-Jun-24	4
179	E&M	83	16-Feb-24	29-May-24	4
180	EVB - E&M works (B)	60	16-Feb-24	30-Apr-24	4 EVB - E&N
181	EVB - E&M works (LG2)	24	02-Apr-24	30-Apr-24	4 EVB - E&N
182	EVB - E&M works (LG3)	60	14-Mar-24	29-May-24	4
183	Footbridge FB03	30	25-May-24	29-Jun-24	4
184	Installation of Structural Frames	30	25-May-24	29-Jun-24	4
185	E&M INSTALLATION	98	28-Feb-24	28-Jun-24	4
186	E&M	98	28-Feb-24	28-Jun-24	4
187	DPR + SUS (Westbound + Eastbound)	77	15-Mar-24	20-Jun-24	4
188	WB CPS E&M Bracket	24	15-Mar-24*	16-Apr-24	
189	EB CPS E&M Bracket	7	17-Apr-24	24-Apr-24	
190	WB NCPS E&M Bracket	24	23-Apr-24*	22-May-24	
191	EB NCPS E&M Bracket	24	23-May-24*	20-Jun-24	
192	Sub-sea Westbound	98	28-Feb-24	28-Jun-24	iiiiiiiii
193	1st section CH6703-7109 - (406m)	97	29-Feb-24	28-Jun-24	
194	E&M Installation (BYME)	97	29-Feb-24	28-Jun-24	
195	CP side	64	15-Mar-24	04-Jun-24	
196	2nd Fixing	64	15-Mar-24	04-Jun-24	
197	Cable delivery arrival site	0		15-Mar-24*	
198	Cable Laying - CPS	10	15-Mar-24	26-Mar-24	
199	Cable Fixing - CPS	24	12-Apr-24	10-May-24	
200	Cable Joint works - CPS	20	11-May-24	04-Jun-24	•
201	OHVD Soffit	95	01-Mar-24	27-Jun-24	
202	1st Fixing	36	01-Mar-24	16-Apr-24	
203	OHVD Soffit Fire Board completion (BTP)	0		01-Mar-24*	
204	Black paint painting	6	01-Mar-24	07-Mar-24	
205	Linear Heat Detection Cable bracket, Containment Installation -	30	08-Mar-24	16-Apr-24	
Pa	ge 5 of 8		E	0/2018/04 for	4 Trunk Road T2 and Infrastructure Works or Developments at South Apron
				Three N	e Months Rolling Programme (Feb-24)

May		1		Ju	ne			1	July		
12	19	26	02	<u>09</u> /В Тур			30 Rich	07	14	21	28
				р і ур	EAIC	UNU	JIAD	: : 			;
	: : :		1	1				1	1	1	
	: : •						¦		: 	: : :	¦ -1
	1		-	1				1	-	1	
pe A F	ire Bo	bard									-i
						; ;					.¦
	1 1 1		1	1		: : :	1	1 1 1	1 1 1	1 1 1	
	 - - -					🗖 Bi	ranch	Tunnn	el Fire	Board	ł
	: 4					, ,	· · · · · · · ·	: L		 	
				1				1	1		÷
											-¦
	; ; ;					; {	; ;	; ;	; ;		
	1		1	1		1	1	1	1	1	-
							;				 
							¦				
	: : : •			: : :		: : : {		: : : •	: : : :	: : :	
	:	1	1	1	EVB	- ABW	/F wor	ks (LG	1)		÷
							÷				
						; ;		; ;	; ;		
&M wo	prks (I	B)		1				1			ł
&M wo	orks (I	G2)					+				
		1		-0.1	aulia /I	02)			; 		
	1	;	EVB - E	±&IVI W	orks (I	-G3)	1	1	: : :	1 1 1	÷
	• 1 1			1				+		I I I	-1 - -
							llnot	Illation	of Str	uotura	
							1 1156		0 30	uciura	ļ Г 
	1 1 1		1	1		1		5 5 5	1	1	-
	: : 					¦ 	¦				
	: : :			1		1		1 1 1	1	1	-
et	• ! !										
							<u>.</u>				
Brack	et			1							
		WB N	CPS E8	MBra	icket	;	:	;	;		
							CPS E	8M Br	ackot		
	: : :			1							ł
							;				-i
							÷			, ,	
	 :					, ; ;	;		 :		
							÷				
											-
			- !				; <b> </b>	• •		, 	
<u> </u>						; ; ;	:			, , ,	.;
Cable	Fixir	ng - CF	S					1	: : :	1 1 1	1
			<u> </u>	able Jo	oint wo	orks-(	CPS	r , ,	r	, , ,	-; ;
							<u>.</u>				
				1			1				
	• •			: :		: 4	:	: 	: •	: :	
				, ,					; ; ;		
	:		1	1				1	1	1	:
n Cabl	e bra	cket (	Contain	ment I	nstalla	tion -	OHVD				
											-
		D	ate	Re	vision		Check	ked	Арр	roved	
	- I			Rev.	Α	SF	^D a				
		31-Ja	in-24	11.60.	/ <b>`</b>		u				
		31-Ja	in-24	11.60.			u				
		31-Ja	in-24				4				
s		31-Ja	in-24				<u>u</u>				
s		31-Ja	in-24				<u>u</u>				
5		31-Ja	in-24	1100.			<u>u</u>				

#	Activity	Name	Dur	Start	Finish															2024			
	L					nuary 14	21	28	04	Februa 11	ary 18	25	03	Ma 10	arch 17	24	31	07	April 14	21	28	05	Τ
206		2nd Fixing	39	11-May-24	27-Jun-24															ļ			
207		Tunnel Damper Wiring Works - OHVD	30	11-May-24	17-Jun-24					: : :													
208		Final Circuit Installation - OHVD	24	30-May-24	27-Jun-24					: : : :	: : : :		-	1 1 1 1					: : : :			: : :	
209		Non CP side	97	29-Feb-24	28-Jun-24				:	:	: : :		: : :	1 1 1				:	: : :			1 1 1	
210		1st Fixing	24	12-Mar-24	13-Apr-24				1	: : :	1			1	1							1	1
211		E&M Bracket	24	12-Mar-24	12-Apr-24													-		Bracke			
212		NCPS Bracket completion	0		13-Apr-24*														NCF	PS Brac	(et c	omplet	tior
213		2nd Fixing	97	29-Feb-24	28-Jun-24					1												 	
214		High Voltage cable delivery arrival at site	0		29-Feb-24*					•		•	High V	/oltag	e cabl	e deliv	/ery ar	rival at	site				
215		HV Cable Pulling - NCPS (Parapet location)	30	29-Feb-24	08-Apr-24													H 📮	V Cabl	e Pullin	g - N	CPS (	Pa
216		Cable Laying - NCPS	10	13-Apr-24	24-Apr-24															드 C	able	Laying	g -
217		Cable Fixing - NCPS	10	25-Apr-24	07-May-24			• • • •  • •														<u> </u>	Cab
218		Smartone / CSL / GOFS by others	24	08-May-24	05-Jun-24																		
219		Cable Joint works - NCPS	20	05-Jun-24	28-Jun-24			• • • •  • •	4	+	: 												
220		2nd section CH7109-7607 - (498m)	98	28-Feb-24	28-Jun-24					+													
221		E&M Installation (BYME)	97	28-Feb-24	27-Jun-24																		
222		CP side	91	28-Feb-24	20-Jun-24																		
223		1st Fixing	24	28-Feb-24	26-Mar-24																		
224	-	E&M Bracket installation	24	28-Feb-24*	26-Mar-24									1 1 -1			E&M F	Bracket	install	ation			
225	-	2nd Fixing	34	20-1 eb-24 27-Mar-24	10-May-24					÷													
226	-	Cable Laying - CPS		27-Mar-24 27-Mar-24	-					- 	; ; ;								Cable	Laying	- CP	S	- <del>.</del>
227	-		10		11-Apr-24					: 	: : : :									, Laying			i c
228	-	Cable Fixing - CPS Final Fixing	24	12-Apr-24	10-May-24						: - 												
220			10	08-Jun-24	20-Jun-24					; ; ;													
		AQMS / CMCS Sensor Installation - CPS	10	08-Jun-24	20-Jun-24					; ;													
230		OHVD Soffit	83	15-Mar-24	27-Jun-24					; ; ;	: 												
231		1st Fixing	36	15-Mar-24	30-Apr-24					; ; ;						<b>D</b> O (							
232		OHVD Soffit Fire Board completion (BTP)	0		15-Mar-24*					: 				•						etion (B	۱۳) 		
233		Black paint painting	6	15-Mar-24	21-Mar-24											Blac	k paint	t paintii	ng				
234		Linear Heat Detection Cable bracket, Containment Installation -	30	22-Mar-24	30-Apr-24					: : : :	: : : 			: : : :	[				: 			inear I	He
235		2nd Fixing	39	11-May-24	27-Jun-24					: : :	: : :												
236		Tunnel Damper Wiring Works - OHVD	30	11-May-24	17-Jun-24																		
237		Final Circuit Installation - OHVD	24	30-May-24	27-Jun-24					: : :	- - - -			: : :				: : :	: : :			: : :	
238		Non CP side		29-Feb-24	04-Jun-24					:	1		1	1	1			:	1			1	
239		1st Fixing	24	12-Apr-24	11-May-24					· · · · · · · · · · · · · · · · · · ·													
240		E&M Bracket	24	12-Apr-24	10-May-24														:				Ē
241		NCPS Bracket completion	0		11-May-24*									1								•	• 1
242		2nd Fixing	77	29-Feb-24	04-Jun-24																		
243		NCPS Parapet completion	0		29-Feb-24*					+	L	•	NCPS	Para	pet co	mpleti	on					J 1 1	
244		HV Cable Pulling - NCPS (Parapet location)	30	29-Feb-24	08-Apr-24							ļ						💻 H	V Cabl	e Pullin	g - N	CPS (	Pa
245		Cable Laying - NCPS	10	11-May-24	23-May-24			••••															
246		Cable Fixing - NCPS	10	24-May-24	04-Jun-24			• • • •   • •		÷					·								
P	age 6	of 8		E	D/2018/04 for Three N	Dev	/elop	ome	ents	at S	Sout	ר A	oron			ks				BOL	JYG UX P	UES UBLIC	S

May				Ju	ne				Julv		
12	19	26	02	09	16	23	30	07	July 14	21	28
								1 1 1	1 1 1 1	1 1 1	
					🗖 Tu	nnel D	amper	Wirin	g Worl	ks - 0	HΝ
		· · · · · · ·						Circuit	r 1	1	1
					   			Jiicuit	lingrand		
								1 1 1	: : :	1 1 1	-
									,		
		+						, 	; ; ;		
on		1						 	 	1 1 1	-
								, L	L		
			: : : - :					: : •	: : •	: : :	
								: : :			
arape	locat	tion)						r	r		
- NCP		+									
able Fi	xing -	NCP	S					; ; ;	: : :	: : :	
			S	marto	ne / C	SL/G	OFS b	y othe	rs	L	
		+	-							NO	
							Cable	Joint	WORKS	- NCI	75
		1	1 1						,	 : :	
											÷
								; ; 			
-		1						1	: : :	1	
								6	6 1 1	' ! !	
								: 	: 	: !	
								, , , ,			
								1	1 1 1	1 1 1	
								r			ļ
Cable	Fivin		20					: 	: 		÷
Cable		y - 01	<b>S</b>					: : 			
								5 5 5	: : :	: : :	
						AQMS	/ CM	CS Se	nsor Ir	istalla	tio
								, , ,			
									: : :	: : 	
								: :			
									 !	·	
								: : :	: : :	: : :	
eat De	etectio	on Cab	ole bracl	ket, Co	ontaini	ment l	nstalla	tion - (	DHVD	1	1
								, ,	, , ,	; ;	
								14/:		~	-
					<b>_</b> IU			Wirin			: I
							Final (	Circuit	Installa	ation -	0
		L					+	L	L	L	
					· · · · · · · · · · · · · · · · · · ·			: : •		: : :	
		1						: : :	:	1	
E&M	Brack	et						,			-
NCP	S Bra	cketo	ompletic	n			+	 			
								1 1 1	: : :	: : :	
					·			 ! !	•	 ; ;	
arape	locat	lion)	1 1 					: 	: •	: :	
arape											
		Cable	Laying	- NC	-8			1 1 1		1 1 1	
		r	💻 Ca	ble F	ixing -	NCPS		r	r		
1										1	:
			ate		evision		Check	æd	Арр	roved	
		31-Ja	n-24	Rev.	A	SF	°a				
s											

# A	Activity N	lame	Dur	Start	Finish											2024									
	,					nuary 14	21	28 04	February	18 25	03	March	ו 17   24	31	April		28	Ma 05   12		26 0	2 09	June 16	23	Ju 30 07 1	ly 14 21 28
247		TCSS (Gtech)	64	12-Apr-24	28-Jun-24																				
248		TCSS access date CPS	0	12-Apr-24											♦ TC	SS access	s date C	PS							
249		TCSS access date OHVD soffit	0	02-May-24					- 4								♦ T(	SS acce	ss date O	HVD so	offit				
250		TCSS access date NCPS	0	24-May-24															♦ T	CSS ac	cess da	te NCPS	S		
251		CPS	48	12-Apr-24	08-Jun-24										· · · · · · · · · · · · · · · · · · ·										
252		TCSS installation CPS	48	12-Apr-24	08-Jun-24																🗖 ТС	SS insta	llation	CPS	
253		OHVD Soffit	48	02-May-24	28-Jun-24		· · · · · · · · · · ·														·				
254		TCSS installation OHVD soffit	48	02-May-24	28-Jun-24					 	·	· 			· · · · · · · · · · · · · · · · · · ·									TCS\$ installa	tion OHVD s
255		Cladding (CERATEC)	23	11-May-24	07-Jun-24																				
256		CPS	23	11-May-24	07-Jun-24																·				
257		Subframe installation @ 10R/day - Phase 1 including frame	23	11-May-24	07-Jun-24		· · · · · · · · · ·								·						Sub	frame in	stallatio	on @ 10R/day	v - Phase 1 ir
258		3rd section CH7607-8107 - (500m)	93	29-Feb-24	24-Jun-24										· · · · · · · · · · · · · · · · · · ·										
259		E&M Installation (BYME)	93	29 Feb-24	24-Jun-24										· · · · · · · · · · · · · · · · · · ·										
260		CP side	58	15-Apr-24	24-Jun-24																: : : :				
261		1st Fixing	24	15-Apr-24	13-May-24																				
262		E&M Bracket installation	24	•														F	& M Brack	(et insta	Ilation				
263		2nd Fixing	34	15-Apr-24*	13-May-24																				
264				14-May-24	24-Jun-24										· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	Cahlol	avina -	292		· · · · · · · · · · · · · · · · · · ·	
265		Cable Laying - CPS	10	14-May-24	25-May-24						I										aying -		- Cah	le Fixing - CF	20
265		Cable Fixing - CPS OHVD Soffit	24	27-May-24	24-Jun-24										· · · · · · · · · · · · · · · · · · ·									ie i ixiliy - çr	3
		1st Fixing	36	15-Mar-24	30-Apr-24																····				
267			36	15-Mar-24	30-Apr-24									(Cf Time 1		alation (D	τ <b>η</b> )								
268		OHVD Soffit Fire Board completion (BTP)	0		15-Mar-24*										Board com	ipietion (B	IP)								
269		Black paint painting	6	15-Mar-24	21-Mar-24							· · · · · · · · · · · · · · · · · · ·	Blac	k paint p	painting		_	an l la at F			no el cot	0			
270		Linear Heat Detection Cable bracket, Containment Installation -	30	22-Mar-24	30-Apr-24							· · · · · · · · · · · · · · · · · · ·	·····		1 I 1 I 1 I									stallation - Ol	
271		Non CP side	91	29-Feb-24	21-Jun-24																				
272		1st Fixing	24	11-May-24	11-Jun-24										· · · · · · · · · · · · · · · · · · ·										
273		E&M Bracket	24	11-May-24	08-Jun-24																	MBrack			
274		NCPS Fire Board completion	0		11-Jun-24*						I										♦	NCPS Fi	re Boar	d completion	
275		2nd Fixing	91	29-Feb-24	21-Jun-24				· · · · · · · · · · · · · · · · · · ·									: : : :		: : : :				· · · · · · · · · · · · · · · · · · ·	
276		NCPS Parapet completion	0		29-Feb-24*					•	NCPS	Parapet	t complet	ion				: : : :							
277		HV Cable Pulling - NCPS (Parapet location)	30	29-Feb-24	08-Apr-24					[					🗖 HV Ca	able Pulling	g - NCF	S (Parap	et locatio	n)					
278		Cable Laying - NCPS	10	11-Jun-24	21-Jun-24																		Cable	Laying - NCP	S
279		4th section CH8107-8550 - (500m)	36	29-Feb-24	15-Apr-24															: : : :	: : :				
280		E&M Installation (BYME)	36	29-Feb-24	15-Apr-24		1										1				1				
281		Non CP side	36	29-Feb-24	15-Apr-24											,								,	
282		1st Fixing	24	14-Mar-24	15-Apr-24													- 1							
283		NCPS Fire Board completion	0		14-Mar-24*							◆ N(	CPS Fire	Board o	completion										
284		E&M Bracket	24	14-Mar-24	15-Apr-24					 I I I						E&M Brac	ket				· · · · · · · · · · · · · · · · · · ·			L- I I I I I I	
285		2nd Fixing	30	29-Feb-24	08-Apr-24													+							
286		NCPS Parapet completion	0		29-Feb-24*	;				•	NCPS	Parapet	t complet	ion						 i i i i					
287		HV Cable Pulling - NCPS (Parapet location)	30	29-Feb-24	08-Apr-24	T				[					🗖 HV Ca	able Pulling	g - NCF	S (Parap	et locatio	n)					
Pag	ge 7 o	f 8	:				1					. 1	1					-		Date	   F	Revision		hecked	Approved
1 ag	je i u	Planned Bar Critical Bar		ED	)/2018/04								/orks			BOU	VGI	ES	31	-Jan-24	4 Re	v. A	SPa		
					101	Dev	eiop	ments	s at So	Juli A	vhiou					BOU TRAVAI	UX PU	BLIČS							
					Three N	Nont	hs R	olling	Progr	amme	e (Feb	o-24)													
									•			,													

#	Activity Name	Dur	Start	Finish				2024
					nuary 14	21 2	8 04	February         March         April         May         June         July           11         18         25         03         10         17         24         31         07         14         21         28         05         12         19         26         02         09         16         23         30         07         14         21         28
288	5th section CH8550-8979 - (172m)	36	29-Feb-24	15-Apr-24				
289	E&M Installation (BYME)	36	29-Feb-24	15-Apr-24		·		
290	Non CP side	36	29-Feb-24	15-Apr-24				
291	1st Fixing	24	14-Mar-24	15-Apr-24				
292	NCPS Fire Board completion	0		14-Mar-24*				NCPS Fire Board completion
293	E&M Bracket	24	14-Mar-24	15-Apr-24		 		E&M Bracket
294	2nd Fixing	30	29-Feb-24	08-Apr-24				
295	NCPS Parapet completion	0		29-Feb-24*		'		NCPS Parapet completion
296	HV Cable Pulling - NCPS (Parapet location)	30	29-Feb-24	08-Apr-24				HV Cable Pulling NCPS (Parapet location)
297	Sub-sea Eastbound	84	01-Mar-24	14-Jun-24				
298	1st section CH6703-7109 - (406m)	84	01-Mar-24	14-Jun-24				
299	E&M Installation (BYME)	84	01-Mar-24	14-Jun-24				
300	CP side	72	15-Mar-24	14-Jun-24				
301	2nd Fixing	34	15-Mar-24	27-Apr-24				
302	Cable delivery arrival site	0		15-Mar-24*		· · · · · · · · · · · · · · · · · · ·		◆ Cable delivery arrival site
303	Cable Laying - CPS	10	15-Mar-24	26-Mar-24				Cable Laying - CPS
304	Cable Fixing - CPS	24	27-Mar-24	27-Apr-24				Cable Fixing - CPS
305	Final Fixing	20	22-May-24	14-Jun-24		· · · · · · · · · · · · · · · · · · ·		
306	Tunnel FS Niche + AQMS /CMCS bracket Installation - CPS	20	22-May-24	14-Jun-24		· · · · · · · · · · · · · · · · · · ·		Tunnel FS Niche + AQMS /CMCS brac
307	OHVD Soffit	36	01-Mar-24	16-Apr-24				
308	1st Fixing	36	01-Mar-24	16-Apr-24				
309	OHVD Soffit Fire Board completion (BTP)	0		01-Mar-24*				◆ OHVD Soffit Fire Board completion (BTP)
310	Black paint painting	6	01-Mar-24	07-Mar-24				Black paint painting
311	Linear Heat Detection Cable bracket, Containment Installation -	30	08-Mar-24	16-Apr-24				Linear Heat Detection Cable bracket, Containment Installation - QHVD
312	Cladding (CERATEC)	10		•				
313	CPS	10	29-Apr-24	21-May-24				
314		18	29-Apr-24	21-May-24		· · · · · · · · · · · · · · · · · · ·		Subframe installation @ 10R/day - Phase 1 including frame
314	Subframe installation @ 10R/day - Phase 1 including frame 2nd section CH7109-7607 - (498m)	18	29-Apr-24	21-May-24				
315	E&M Installation (BYME)	46	01-Mar-24	27-Apr-24				
317		46	01-Mar-24	27-Apr-24		· · · · · · · · · · · · · · · · · · ·		
		34	15-Mar-24	27-Apr-24				
318	2nd Fixing	34	15-Mar-24	27-Apr-24				
319	Cable delivery arrival site	0		15-Mar-24*		· · · · · · · · · · · · · · · · · · ·		◆ Cable delivery arrival site
320	Cable Laying - CPS	10	15-Mar-24	26-Mar-24				Cable Laying - CPS
321	Cable Fixing - CPS	24	27-Mar-24	27-Apr-24		· · · · · · · · · · · · · · · · · · ·		Cable Fixing - CPS
322	OHVD Soffit	36	01-Mar-24	16-Apr-24				
323	1st Fixing	36	01-Mar-24	16-Apr-24		· · · · · · · · · · · · · · · · · · ·		
324	OHVD Soffit Fire Board completion (BTP)	0		01-Mar-24*		· · · · · · · · · · · · · · · · · · ·		OHVD Soffit Fire Board completion (BTP)
325	Black paint painting	6	01-Mar-24	07-Mar-24				Black paint painting
326	Linear Heat Detection Cable bracket, Containment Installation -	30	08-Mar-24	16-Apr-24				Linear Heat Detection Cable bracket, Containment Installation - OHVD
_			1					Date Revision Checked Approved
Pa	ge 8 of 8			1/2018/04	Tru	nk Pa	T he	2 and Infrastructure Works
				101	i De	veiopi		s at South Apron BOUYGUES TRAVAUX PUBLICS
				Three I	Mon	ths Ro	olling	Programme (Feb-24)

## CONTRACT NO. ED/2020/03 TRUNK ROAD T2 TRAFFIC CONTROL SURVEILLANCE SYSTEM AND ASSOCIATED WORKS

							F M Apr M											
Road T2 - T	raffic Control & Surveillance System & Associated Works	665	17-Jul-23	29-Sen-25	23-May-24		14 15 16 17	7 18 19 2	20 21 22	23 24 25	26 27 28	29 30 31	32 33 3	34 35 36	37 38 39	40 41 42	43 44	45 4
	nd Testing & Commissioning	665	17-Jul-23	·		31-Oct-26		+					• • • • • • • • • • • • • •					· · · · ·
	sting Related to Stage 2 of Works	493	21-Aug-23	11-Apr-25	28-Jun-24	31-Oct-26							• • • • • • • • • • • • •					
		451	21 Aug 23	20-Feb-25	28-Jun-24	31-Oct-26												
	D-LTT (LT Interchange)	300	21-Aug-23		28-Jun-24	16-Jan-25					.							<u>،</u>
SW1930	Install Cable Containments	48	21-Aug-23	-	28-Jun-24	23-Aug-24		•					• • • • • • • • • • • • • •					r
SW1960	Install Equipment in Kiosk C	12	25-Mar-24	08-Apr-24	06-Nov-24	19-Nov-24		•	<u></u>				• • • • • • • • • • • • •					·   -
SW1940	Install CCTV Camera	36	03-Apr-24	17-May-24		16-Jan-25		•			•••							( † ·
SW1980	Laying of Leaky Cable	48	16-Apr-24	13-Jun-24	16-0ct-24	10-Dec-24		• •   • • • • • • • • • • •										r+
W1950	Laying of Signal Cable - the 1st Section	48	25-Apr-24	22-Jun-24	23-Sep-24	19-Nov-24		•										+
SW1990	Laying of Signal Cable - the 3rd Section	50	21-Jun-24	19-Aug-24	18-Nov-24	16-Jan-25												[
SW1970	Laying of Signal Cable - the 2nd Section	48	24-Jun-24	19-Aug-24	20-Nov-24	16-Jan-25						╞╸						r†
	th Apron Up to SUS	217	01-Dec-23	21-Aug-24	03-Jul-24	17-Feb-25												( I
SW2000	Install Cable Containments - the 1st Section	48	01-Dec-23	27-Jan-24	03-Jul-24	27-Aug-24												[ ·
SW2000	Install Cable Containments - the 1st Section	24	29-Jan-24	27-5an-24 28-Feb-24	07-0ct-24	04-Nov-24												r+
W2050	Laying of Leaky Cable	48	23-5an-24 27-Feb-24	23-Apr-24	02-Nov-24	28-Dec-24												<u>،</u> ا
W2000	Install CCTV Camera	24	03-Apr-24	•	21-Aug-24	17-Sep-24												+
W2010	Signal Cable Laying - the 1st Section	48	27-Apr-24	25-Jun-24	04-Sep-24	01-Nov-24												r
W2020	Install Equipment in Kiosk F	12	13-May-24	27-May-24	04-Feb-25	17-Feb-25												<u>.</u>
W2030	Install Radio Antenna	10	13-May-24	24-May-24	06-Jan-25	16-Jan-25												
W2040	Signal Cable Laying - the 2nd Section	48	26-Jun-24	21-Aug-24		28-Dec-24												( I
	nel Section, Service Gallery, WVB & EVB	287	08-Mar-24	20-Feb-25	02-N0V-24													<u>,</u>
W2080	Install Cable Containments	229	08-Mar-24	09-Dec-24	09-Sep-24	31-Oct-26		• • • • • • • • • • • • •				·						
W2080	Install CCTV Camera	229	13-Apr-24	09-Dec-24 09-Jan-25	17-0ct-24	31-Oct-26								-				
W2090	Install ET	224	20-Apr-24	16-Jan-25	28-Dec-24	31-Oct-26									╶ <u></u> ┰╴┝╶╺┝╺╺╸			<u>،</u> آ
SW2100	Install Radio System in Service Gallery	224	06-May-24	23-Jan-25	28-Dec-24 24-Oct-24	31-Oct-26						1 1						<u>ا</u> ۲
SW2110	Signal Cable Laying	188	08-Jul-24	20-Feb-25	13-Nov-24	31-Oct-26									····			<u>،</u> ا
SW2120	Laying of Leaky Cable	58	10-Dec-24	20-Feb-25	16-Dec-24	31-Oct-26		•				· -  -		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			<u>.</u>
	Laying of Leaky Cable		08-Mar-24			1												h
		80	08-Mar-24	13-Jun-24		22-Apr-25 20-Mar-25						.   .						
SW2230 SW2220	Install Cable Containments	36		-														<u>،</u> ا
	Install CCTV Camera	29	03-Apr-24	08-May-24	28-Jan-25	05-Mar-25												h
W2250	Signal Cable Laying	36	20-Apr-24	03-Jun-24	11-Mar-25	22-Apr-25												<u> </u>
W2240	Laying of Leaky Cable	36	30-Apr-24	13-Jun-24	14-Feb-25	27-Mar-25												è
nderpass S2		30	05-Apr-24	10-May-24	26-Apr-25	03-Jun-25					╶╻╴┇┇╹╢╋┱┰┠							h
W2260	Install Cable Containment	14	05-Apr-24	20-Apr-24	26-Apr-25	14-May-25												i i
W2280	Laying of Leaky Cable	30	05-Apr-24	10-May-24	26-Apr-25	03-Jun-25									.++			è
W2290	Laying of Power Cable From TCSS Cabinet in T2 Area	14	13-Apr-24	29-Apr-24	17-May-25	03-Jun-25									:			<u>.</u>
W2270	Install YAGI Antenna	/	22-Apr-24	29-Apr-24	26-May-25	03-Jun-25					·							
sting	Testing of EC value of TCCC Equipment	265	25-May-24	11-Apr-25	06-Jan-25	31-Oct-26										<b>_</b>		ŀ+
C1590	Testing of FS-related TCSS Equipment	265	25-May-24	11-Apr-25	06-Jan-25	31-Oct-26												i i
C1610	Issue Notice of Stage 2 Completion to the Engineer	0	171100	11-Apr-25	22 M 24	19-Jun-25												
	LTT (LT Interchange)	443	17-Jul-23	03-Jan-25	23-May-24	19-Jun-25												i i
/1020	Inpect Civil Provisions & Submit Inspection Report	12	17-Jul-23	29-Jul-23	23-May-24	05-Jun-24		╷╷╷┝┫	┓┤╴╴╴┤						.			<u>⊦</u>
/1030	Rectify Civil Provision Defects by Others	18	31-Jul-23	19-Aug-23	06-Jun-24	27-Jun-24												¦
tallation Wor		300	21-Aug-23	19-Aug-24	28-Jun-24	16-Jan-25		·  - · ·   · ·   .	┎┷╍╌┷╍	<b>┼</b> ╍┼╍╫	╶╂╼╞┊╫╋┥╎╎╢							<u>+</u>
W1040	Install Cable Containments	48	21-Aug-23		28-Jun-24	23-Aug-24				╪╍╪╍╍╪╍╍	<b>╶╁╶</b> ╆┼ <b>╢╢</b> ┤╎╏							<u> </u>
W1050	Install Equipment Racks	24	21-Aug-23	-	•	07-Oct-24		·		<u> </u>	╺┝╶╡╷╻┫┫┥┥							
W1110	Install Traffic Control Devices	48	19-Feb-24	15-Apr-24	17-Aug-24	15-0ct-24												
	Planned Activ	ities   Milestone									Date		Revision		Check	эd	Арр	rov
	Actual Work									18-A	pr-23	Rev. D			FC			



vity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	lan E	MIAn	rl M l	2023 Jun Jul I A I	S Oct N D	lan F	MAnr	20 M L Jun	124	I S loct		) lan l	FIME	Apri M I	2025 Jun Jul A		Oct
						ļ	13 14	15 16	5 17	18 19 20	21 22 23 24	1 25 26	27 28	29 30							42 43 4	-	
SW1130	Install VSLS on Gantry	24	18-Mar-24	15-Apr-24	25-Oct-24	21-Nov-24			_				╡╋╋										
SW1140	Install PVMS on Gantry	48	18-Mar-24	14-May-24	20-Nov-24	16-Jan-25																	
SW1090	Install Video Wall Equipment (Administration Building)	21	25-Mar-24	18-Apr-24	26-Oct-24	19-Nov-24																	
SW1100	Install Server Equipment	36	25-Mar-24	07-May-24	08-Oct-24	19-Nov-24																	
SW1120	Install Equipment in Kiosk C	12	25-Mar-24	08-Apr-24	06-Nov-24	19-Nov-24																	
SW1060	Install CCTV Camera	36	03-Apr-24	17-May-24	10-Sep-24	24-0ct-24																	
SW1070	Install Detection Camera	36	13-Apr-24	27-May-24	10-Sep-24	24-0ct-24																	
SW1160	Laying of Leaky Cable	48	16-Apr-24	13-Jun-24	16-Oct-24	10-Dec-24	1																
SW1170	Install Manual Barriers	24	16-Apr-24	14-May-24	18-Dec-24	16-Jan-25	1																
SW1080	Laying of Signal Cable - the 1st Section	48	25-Apr-24	, 22-Jun-24	23-Sep-24	19-Nov-24	1																
SW1200	Install GOFS	48	23-May-24	19-Jul-24	20-Nov-24	16-Jan-25	+																·
SW1190	Install OHVD	10	14-Jun-24	25-Jun-24	06-Jan-25	16-Jan-25	+																·
SW1190	Laying of Signal Cable - the 3rd Section	50	21-Jun-24	19-Aug-24	18-Nov-24	16-Jan-25	+																·
SW1100	Laying of Signal Cable - the 2nd Section	48	24-Jun-24	19 Aug 24		16-Jan-25	+																·
Site Commissi		109	27-Jul-24	04-Dec-24		21-May-25	+																·
					30-Dec-24		+																·
TC1030	SCT of Power Distribution System	15	27-Jul-24	13-Aug-24		16-Jan-25																	.
TC1010	SCT of ET System	10	03-Aug-24	14-Aug-24		12-Mar-25	+									┟╅╍╬╍╍┦		+					
TC1040	SCT of CCTV System	20		-	17-Jan-25	12-Feb-25								-  -  -  -  -  -  -  -  -  -  -  -			╞╍╞╡╍╍		.				
TC1060	SCT of Detection System	24	31-Aug-24	28-Sep-24	15-Feb-25	14-Mar-25											╞╍╞╡╍╍		<u>-</u>   -				
TC1070	SCT of PA System	20	30-Sep-24	24-Oct-24	18-Mar-25	10-Apr-25	<u> </u>										╘╍┝┼╍╴		å  -				
TC1080	SCT of Traffic Control Devices	35	30-Sep-24	11-Nov-24	09-Apr-25	21-May-25									-			++++	#				
TC1090	SCT of Central System	20	30-Sep-24	24-Oct-24	15-Mar-25	08-Apr-25	I																
TC1110	SCT of OHVD System	20	25-Oct-24	16-Nov-24	09-Apr-25	02-May-25			_														
TC1120	SCT of Operation Facilities	15	18-Nov-24	04-Dec-24	03-May-25	21-May-25													<u>äl</u>				
Site Commissi	ioning Test Report	118	14-Aug-24	03-Jan-25	22-May-25	19-Jun-25																	
DS4800	Submit Power Distribution System SCT Test Report	24	14-Aug-24	10-Sep-24	22-May-25	19-Jun-25																	
DS4810	Submit ET System SCT Test Report	24	15-Aug-24	11-Sep-24	22-May-25	19-Jun-25																	
DS4840	Submit CCTV System SCT Test Report	24	12-Sep-24	12-Oct-24	22-May-25	19-Jun-25	1.1.1									┝═┓║		1117	<u> </u>				
DS4850	Submit PA System SCT Test Report	24	25-Oct-24	21-Nov-24	22-May-25	19-Jun-25	1												<u> </u>				
DS4860	Submit Central System SCT Test Report	24	25-0ct-24	21-Nov-24	, 22-May-25	19-Jun-25	1																
DS4870	Submit Manual Fallback Control System SCT Test Report	24		21-Nov-24			+									-		111					·
DS4880	Submit Communication System SCT Test Report	24	25-Oct-24	21-Nov-24	22-May-25	19-Jun-25	+												<b>****</b>				·
DS4900	Submit Traffic Control Devices SCT Test Report	24	12-Nov-24	09-Dec-24	22-May-25		+												<u></u>				·
DS4910	Submit Detection System SCT Test Report	24	12 Nov-24	14-Dec-24	22-May-25		+		-									111	<u> </u>				·
DS4920	Submit Operation Facilities SCT Test Report	24	05-Dec-24	03-Jan-25	22-May-25		+										┝╺┟┎┯╌╴	<u>i</u> titi i	₿ === ÷				·
	th Apron Up to SUS				-											'			*****				·
		374	27-0ct-23	22-Jan-25	27-May-24	19-Jun-25			-							····			#				
SW1210	Inspect Civil Provisions & Submit Inspection Report	12	27-Oct-23	09-Nov-23	27-May-24	08-Jun-24										<i> </i> /		4-44	#				
SW1220	Rectify Civil Provision Defects by Others	18	10-Nov-23	30-Nov-23	11-Jun-24	02-Jul-24	<b> </b>																
Installation Wo		241	01-Dec-23	19-Sep-24	03-Jul-24	08-Apr-25						<u> </u>							#				
SW1230	Install Cable Containments - the 1st Section	48	01-Dec-23	27-Jan-24	03-Jul-24	27-Aug-24	ļ		_		·												
SW1320	Install Cable Containments - the 2nd Section	24	29-Jan-24	28-Feb-24	07-Oct-24	04-Nov-24												1.117					
SW1340	Laying of Leaky Cable	48	27-Feb-24	23-Apr-24	02-Nov-24	28-Dec-24										'							
SW1240	Install CCTV Camera	24	03-Apr-24	02-May-24	21-Aug-24	17-Sep-24																	
SW1250	Install Detection Cameras	24	13-Apr-24	11-May-24	21-Aug-24	17-Sep-24													il T				
SW1260	Signal Cable Laying - the 1st Section	48	27-Apr-24	25-Jun-24	04-Sep-24	01-Nov-24																	
SW1290	Install Radio Antenna	10	03-May-24	14-May-24	26-Feb-25	08-Mar-25		1								[	[]]		<u>ا ا ا</u>				
SW1270	Install Traffic Control Devices	36	13-May-24	, 25-Jun-24	27-Nov-24	09-Jan-25	1.1.1										[ ] ]		:: : : : : : : : :				
SW1280	Install Equipment in Kiosk F	12	13-May-24	27-May-24	04-Feb-25	17-Feb-25	1-1-1											111	;;;; -				
SW1310	Install VSLS on Gantry	12	28-May-24	11-Jun-24	04-Mar-25	17-Mar-25	1							<b>└</b> ► <mark>(</mark>			-	111	#				
SW1310	Signal Cable Laying - the 2nd Section	48	26-Jun-24	21-Aug-24	02-Nov-24	28-Dec-24	<u>+-+-</u> +										-  -		#				
SW1300	Install PVMS on Gantry	24	01-Aug-24			17-Mar-25	<b>┤</b> ··┼··┼									<b>  </b> '			#				•
SW1300	Install Manual Barriers		29-Aug-24		18-Mar-25	08-Apr-25	+++								∦⊦⊑	<b> </b> '			*				·
		18	-				<b></b> ++								- -  <i>-</i>	<b>[ </b> /			#				·  -
Site Commissi		103	ZZ-Aug-24	23-Dec-24	30-Dec-24	21-May-25									ШЦ				8				
	Planned Activities ♦	Milestone										Da	ite		Revi	ision	<u> </u>	C	hecke	d	A	pprove	ed .
3	Actual Work											18-Apr-2		Rev.			-	FC		$\neg \uparrow$		<u> </u>	
												10-May-		Rev.			ſ	FC					
CT	Critical Activity Critical Activity									Ра	ige 2 of 6	07-Jul-2	23	Rev.	F		!	MY					
	a car ser meet (reens reens) municu																						

vity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	2023 Jan F M Apr M Jun Jul A S lOct I	2024 N D Jan F M Apr M Jun Jul A S Oc	t N D Jan F M Apr M Jun Jul Aug S Oct
1							13 14 15 16 17 18 19 20 21 22	23 24 25 26 27 28 29 30 31 32 33 34	4         35         36         37         38         39         40         41         42         43         44         45         46
TC1140	SCT of ET System	10	22-Aug-24		01-Mar-25	12-Mar-25			
TC1160	SCT of Power Distribution System	15	22-Aug-24	· ·	30-Dec-24	16-Jan-25			
TC1170	SCT of CCTV System	20	09-Sep-24		17-Jan-25	12-Feb-25			
TC1190	SCT of Detection System	24	20-Sep-24	19-0ct-24	15-Feb-25	14-Mar-25			
TC1200	SCT of PA System	20	21-0ct-24	12-Nov-24	18-Mar-25	10-Apr-25			
TC1210	SCT of Traffic Control Devices	35	21-Oct-24	29-Nov-24	09-Apr-25	21-May-25			
TC1220	SCT of Central System	20	21-0ct-24	12-Nov-24	15-Mar-25	08-Apr-25		-	
TC1240	SCT of OHVD System	20	13-Nov-24	05-Dec-24	09-Apr-25	02-May-25			
TC1250	SCT of Operation Facilities	15	06-Dec-24	23-Dec-24	03-May-25	21-May-25			
Site Commissi	oning Test Report	117	03-Sep-24	22-Jan-25	22-May-25	19-Jun-25			
DS4930	Submit ET System SCT Test Report	24	03-Sep-24	02-Oct-24	22-May-25	19-Jun-25			
DS4950	Submit Power Distribution System SCT Test Report	24	09-Sep-24	08-Oct-24	22-May-25	19-Jun-25		···∤···∤···↓·↓	
DS4970	Submit CCTV System SCT Test Report	24	04-0ct-24	01-Nov-24	22-May-25	19-Jun-25			
DS4980	Submit Detection System SCT Test Report	24	21-0ct-24	16-Nov-24	22-May-25	19-Jun-25			
DS5000	Submit PA System SCT Test Report	24	13-Nov-24	10-Dec-24	22-May-25	19-Jun-25			
DS5000	Submit Central System SCT Test Report	24	13-Nov-24	10 Dec 24	22-May-25	19-Jun-25			
DS5010	Submit Central System SCT Test Report Submit Communication System SCT Test Report	24	13-Nov-24 13-Nov-24	10-Dec-24 10-Dec-24	22-May-25	19-Jun-25 19-Jun-25		···┼··┝··┼┟┼┊┨╬╢╴┨┊╌╠╂╬╠┍┞╌╶┼╌╴┤╌	┟ <u>┟┟┰┰┰</u> ╌┇╌╪╬╌╝╎╌╌╎╌╌╢╌╌┨╴╴╷╎║╶╎╶╌╷┝╶╴╎╌┄
								╴╴┼╴╴┝╴╴┼╴┨╌┝┋┦╬╫╴┨╦╶╠┨╬╬┼╴┝╴┼╴╴┼╴╴	
DS5030	Submit Traffic Control Devices SCT Test Report	24	30-Nov-24	28-Dec-24	22-May-25	19-Jun-25		╶╶╶┼╍╼┝╼╼╶╢╴┨╴╡╸┨╋┨┥╸┨╺╕╸╴╠╕┩╺╣┊┠╺┞╸╸╸┥╸╸	
DS5040	Submit Operation Facilities SCT Test Report	24	24-Dec-24		22-May-25				· · · · · · · · · · · · · · · · · · ·
<u> </u>	el Section, Service Gallery, WVB & EVB	499	04-Sep-23	03-May-25	29-Aug-24	19-Jun-25			
Tunnel Section		296	27-Feb-24	20-Feb-25	29-Aug-24	-			
Tunnel Section	n - CH 6+568 to CH 7+100	81	27-Feb-24	03-Jun-24	28-Sep-24	22-Mar-25			
SW2860	Inspect Civil Provisions & Submit Inspection Report	3	27-Feb-24	29-Feb-24	28-Sep-24	02-0ct-24			
SW2870	Rectify Civil Provision Defects by Others	6	01-Mar-24	07-Mar-24	03-Oct-24	09-Oct-24			
Installation W	orks	72	08-Mar-24	03-Jun-24	10-Oct-24	22-Mar-25			
SW2300	Install Cable Containment	24	08-Mar-24	05-Apr-24	10-Oct-24	07-Nov-24			
SW2370	Install PA in Service Gallery	24	22-Mar-24	19-Apr-24	25-Oct-24	21-Nov-24			
SW2360	Install VSLS	18	29-Mar-24	19-Apr-24	28-Nov-24	18-Dec-24			
SW2350	Install Traffic Control Devices	24	06-Apr-24	04-May-24	13-Dec-24	11-Jan-25			
SW2380	Install PABX in Service Gallery	24	06-Apr-24	04-May-24	08-Nov-24	05-Dec-24			
SW2310	Install CCTV Camera	18	13-Apr-24	-		03-Jan-25			
SW2340	Install ET	12	20-Apr-24	04-May-24	28-Dec-24	11-Jan-25			TTTT 11
SW2320	Install Detection Camera	18	27-Apr-24		27-Dec-24	17-Jan-25		·····	******
SW2390	Install Radio System in Service Gallery	24	06-May-24	03-Jun-24	06-Dec-24	04-Jan-25			
SW2330	Install SEC Camera	18	13-May-24	03-Jun-24	03-Mar-25				*****
	n - CH 7+100 to CH 7+600	107		20-Aug-24	29-Aug-24	22-Mai-25 28-Apr-25		···∤···∤···↓·↓↓↓↓↓↓↓↓	*****
SW2880		3	13-Apr-24	-	-				*
	Inspect Civil Provisions & Submit Inspection Report		13-Apr-24	16-Apr-24	29-Aug-24	31-Aug-24		╴╴╴┼╴╴╴╎╴╴┥╴╽╴┊╴┫┇╧┇╴┨╶╴╴┊╶╴┊╞╌┊╞┍╶┝╶╴╴┥╴╴┊╴╴╴	*
SW2890	Rectify Civil Provision Defects by Others	6	17-Apr-24	-	02-Sep-24	07-Sep-24			· · · · · · · · · · · · · · · · · · ·
		98	24-Apr-24	20-Aug-24	09-Sep-24	28-Apr-25		····	······································
SW2400	Install Cable Containment	24	24-Apr-24		09-Sep-24	08-0ct-24			· · · · · · · · · · · · · · · · · · ·
SW2410	Install PA in Service Gallery	24	09-May-24		24-Sep-24	23-0ct-24		╶╶╶┼╌╍┝╌╍┝┨╌┝┋ <b>╎<u>╠</u>╎╢<u>╔╴╶</u>┇┼╬╬╸┿╍╌┼╍┾┍╍</b>	╶╆╌┽╬╬╴╬╌╽╪╶╬╎╴╴╎╴╴╫╴╶╁╴╴┤╴║╎╴╴┝╴╴╎╴╸
SW2420	Install VSLS	18	17-May-24	06-Jun-24	02-Oct-24	23-0ct-24		╶╶╶┼╌╍┝╌╍┝┨╌┝┊┨ <b>╬</b> ╢┥ <mark>╿╔╴┍</mark> ╘ <u></u> ╛╬╬┱┿╍╌┿╍┾┍╍	╶╋╌┝┥┟╴╬╶╷╡╪╶╬╎╴╴╎╴╸╫╴╴╂╴╴┤╴╫╶╎╴╴┝╶╴╎╴╸
SW2460	Install Traffic Control Devices	24	17-May-24	14-Jun-24	29-Nov-24	27-Dec-24	· · · · · · · · · · · · · · · · · · ·	╶╶╶╎╴╌╎╴╴╎╏╷╎┊╽┇╢╶╢╸┲╸┊╬┱╌╌╌┼╌┝╌╴	
SW2440	Install PABX in Service Gallery	24	24-May-24	21-Jun-24	09-Oct-24	06-Nov-24			•===
SW2430	Install CCTV Camera	18	31-May-24	21-Jun-24	17-0ct-24	06-Nov-24		╶╴╴╎╴╸╎╴╴╎╏╎╎┊╿╠║╴╻╄╋╋╋╋╋	
SW2470	Install Radio System in Service Gallery	24	07-Jun-24	06-Jul-24	24-0ct-24	20-Nov-24			
SW2450	Install Detection Camera	18	15-Jun-24	06-Jul-24	31-Oct-24	20-Nov-24			
SW2480	Install ET	12	15-Jun-24	28-Jun-24	28-Dec-24	11-Jan-25			
SW2490	Install GOFS (CH 6+568 to CH 7+100)	38	08-Jul-24	20-Aug-24	14-Mar-25	28-Apr-25			
SW2500	Signal Cable Laying and Termination (CH 6+568 to CH 7+100)	38	08-Jul-24	20-Aug-24	21-Nov-24	06-Jan-25			
	n - CH 7+600 to CH 8+100	63	28-May-24	10-Aug-24	15-Oct-24	17-Jan-25			
SW2900	Inspect Civil Provisions & Submit Inspection Report	3	28-May-24	30-May-24	15-0ct-24	17-0ct-24			
SW2910	Rectify Civil Provision Defects by Others	6	31-May-24		13-Oct-24	24-0ct-24		╴╴┼╴╴╎╴╴╎╴┨╶┼┊┨┇╢╴┨┇══╠┨┊┊┊╴┼╶╴╶┼╴╴	
5112510		0	SI Huy 24		10 000 24	210027			
		▲ ► ► ► ► ► ► ►						Date Revision	Checked Approved
-	Planned Activities	<ul> <li>Milestone</li> </ul>						18-Apr-23 Rev. D	FC
	Actual Work							10-May-23 Rev. E	FC
CT	ECH Services (Hong Kong) Limited						Page 3 c	of 6 07-Jul-23 Rev. F	MY
	Lon Su vices (nong ixong) Limiteu								



)	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Jan F M Apr M Jun Ju				A S Oct N D		Apr M Jun Jul	
Installation Wo	orks	54	07-Jun-24	10-Aug-24	25-Oct-24	17-Jan-25	13 14 15 16 17 18 19	20 21 22 23 2			2 33 34 35 36	37 38 39	+0 41 42 43	, 44 45
SW2510	Install Cable Containment	24	07-Jun-24	06-Jul-24	25-0ct-24	21-Nov-24				┛┫┙┙┙				
SW2520	Install VSLS	18	22-Jun-24	13-Jul-24	28-Nov-24	18-Dec-24								
SW2520	Install PA in Service Gallery	24	22-Jun-24	20-Jul-24	15-Nov-24	10 Dec 24 12-Dec-24								;
SW2530	Install Traffic Control Devices		22-Jun-24 29-Jun-24	20-Jul-24 27-Jul-24	29-Nov-24	27-Dec-24					╌┝╌╍╆┥╌╌┲╴╸┫╋┥╣╷			
		24							· · · · · · · · · · · · · · · · · · ·					
SW2550		18	08-Jul-24	27-Jul-24	12-Dec-24	03-Jan-25								
SW2560	Install PABX in Service Gallery	24	08-Jul-24	03-Aug-24	29-Nov-24	27-Dec-24								
SW2570	Install Radio System in Service Gallery	24	15-Jul-24	10-Aug-24	06-Dec-24	04-Jan-25								
SW2580	Install Detection Camera	18	22-Jul-24	10-Aug-24	27-Dec-24	17-Jan-25						₿          ₿ -   -   -		·
SW2590	Install ET	12	29-Jul-24	10-Aug-24	28-Dec-24	11-Jan-25								·
	n - CH 8+100 to CH 8+750	78	13-Aug-24		04-Oct-24	28-Apr-25								·
SW2920	Inspect Civil Provisions & Submit Inspection Report	3	13-Aug-24	-	04-Oct-24	07-Oct-24								
SW2930	Rectify Civil Provision Defects by Others	6	16-Aug-24	22-Aug-24	08-Oct-24	15-Oct-24					9			
Installation Wo		69	23-Aug-24	14-Nov-24	16-Oct-24	28-Apr-25						10 01 0 0 10 01 0 0 10 01 0 0 10 01 0 0 10 0 0 0		
SW2600	Install Cable Containment	24	23-Aug-24	20-Sep-24	16-Oct-24	12-Nov-24								
SW2610	Install VSLS	18	06-Sep-24	27-Sep-24	28-Nov-24	18-Dec-24								
SW2620	Install PA in Service Gallery	24	06-Sep-24	05-Oct-24	15-Nov-24	12-Dec-24								
SW2630	Install Traffic Control Devices	24	13-Sep-24	14-0ct-24	29-Nov-24	27-Dec-24								.
SW2640	Install CCTV Camera	18	21-Sep-24	14-Oct-24	12-Dec-24	03-Jan-25						14 14 - 1 11 14 - 14 -		-++ 
SW2650	Install PABX in Service Gallery	24	21-Sep-24	21-Oct-24	29-Nov-24	27-Dec-24						1		:
SW2700	Install GOFS (CH 7+600 to CH 8+750)	45	21-Sep-24	14-Nov-24	06-Mar-25	28-Apr-25								:
SW2710	Signal Cable Laying and Termination (CH 7+600 to CH 8+750)	45	21-Sep-24	14-Nov-24	13-Nov-24	06-Jan-25								
SW2660	Install Radio System in Service Gallery	24	28-Sep-24	28-Oct-24	06-Dec-24	04-Jan-25			••••••••••••••••					
SW2670	Install Detection Camera	18	07-Oct-24	28-0ct-24	27-Dec-24	17-Jan-25					╶╶╎╴┤┤╴╴╴┨╴╴╡╡╴╢╢╶			
SW2680	Install ET	10	15-Oct-24	28-0ct-24 28-0ct-24	27-Dec-24 28-Dec-24	11-Jan-25			· · · · · · · · · · · · · · · · · · ·		<b>────┤┙</b> ╹╴┤║║║			
SW2690	Install SEC Camera		22-Oct-24	11-Nov-24	03-Mar-25	22-Mar-25					· · · · · · · · · · · · · · · · · · ·			
		18												,
_	n - CH 8+750 to CH 9+250	86	07-Nov-24	20-Feb-25	07-Nov-24	07-May-25								·
SW2940	Inspect Civil Provisions & Submit Inspection Report	1	07-Nov-24		07-Nov-24	07-Nov-24					·····			
SW2950	Rectify Civil Provision Defects by Others	4	08-Nov-24	12-Nov-24	08-Nov-24		<b>.</b>							
_Installation Wo		81	13-Nov-24	20-Feb-25	13-Nov-24	07-May-25					─┼─ <del>╽</del> ╌ <mark>╽<mark>╴</mark>╽║╽</mark> ║	· -		
SW2720	Install Cable Containment	23	13-Nov-24											·
SW2730	Install VSLS	13	10-Dec-24	24-Dec-24	02-Jan-25	16-Jan-25								·
SW2740	Install PA in Service Gallery	19	10-Dec-24	02-Jan-25	04-Jan-25	25-Jan-25								,
SW2750	Install Traffic Control Devices	19	10-Dec-24	02-Jan-25	11-Jan-25	05-Feb-25								;
SW2780	Install GOFS (CH 7+600 to CH 8+750)	58	10-Dec-24	20-Feb-25	19-Feb-25	28-Apr-25	·							
SW2790	Signal Cable Laying and Termination (CH 7+600 to CH 8+750)	58	10-Dec-24	20-Feb-25	10-Dec-24	20-Feb-25								:
SW2850	Laying of Leaky Cable	58	10-Dec-24	20-Feb-25	16-Dec-24	26-Feb-25								
SW2760	Install CCTV Camera	18	18-Dec-24	09-Jan-25	10-Jan-25	03-Feb-25								, .
SW2770	Install PABX in Service Gallery	22	20-Dec-24	16-Jan-25	15-Jan-25	12-Feb-25								
SW2800	Install Radio System in Service Gallery	22	28-Dec-24	23-Jan-25	22-Jan-25	19-Feb-25								
SW2810	Install Detection Camera	18	03-Jan-25	23-Jan-25	12-Feb-25	04-Mar-25								
SW2820	Install ET	12	03-Jan-25	16-Jan-25	06-Feb-25	19-Feb-25								·   · · ·   · · ·
SW2830	Install SEC Camera	18	10-Jan-25	03-Feb-25	15-Apr-25	07-May-25	·			-   -   -   -   -   -   -   -   -   -				·
SW2840	Install PVMS	12	17-Jan-25	03-Feb-25	-	07-May-25			·· <b>·</b> ·· <b>·</b>	-   -   -   -   -   -   -   -   -   -				
West Ventilation		279	04-Sep-23	08-Aug-24	07-Sep-24	26-Feb-25	·		··├··/					
SW1360	Inspect Civil Provisions & Submit Inspection Report	12	04-Sep-23	16-Sep-23	07-Sep-24	21-Sep-24	<b></b>		· ·  · · ·  ·  ·  ·  ·  ·   ·					·+
SW1300	Rectify Civil Provision Defects by Others	12	18-Sep-23	10-Sep-23	23-Sep-24	15-Oct-24								
Installation Wo		249	11-Oct-23	08-Aug-24	16-Oct-24	26-Feb-25	┫╍╡╍╞╍┤╍╞╍취╍┼╍		··├···│ <u>│</u> · <del> </del>					·
				-		1			· · <b> </b> · · · <b>   </b> · <b>   </b> ·					, - <del> </del>
SW1650	Install Cable Containments	24	11-Oct-23	08-Nov-23	16-0ct-24	12-Nov-24			· ·  · · ·  ·   ·  ·  · · []-			┋╺╞╕╋╺╬╺┨┥┥╸		·
SW1660	Position Equipment Rack	12	09-Nov-23	22-Nov-23	23-Nov-24	06-Dec-24			╍╞╍╍╡╍┠╍║╻╻║					
SW1690	Install PABX Equipment	20	10-Nov-23		06-Nov-24				╌┼╌╌┼┼╶╬╦ <u>╟</u>	· <u>↓</u> ····	┄┼╌╴┟┼╶╴┨╴┥╫╢╢╴			·
SW1670	Install Network Equipment	36	25-Mar-24	07-May-24	07-Dec-24	20-Jan-25	4			╶┨╌╸╻╴╴┊╎╷╷				,
SW1710	Install Radio Equipment	12	13-Apr-24	26-Apr-24	29-Nov-24	12-Dec-24								<u>.    </u>
									1		<u>.</u>			
									Date		evision	Checke	d	Approv
	Planned Activities	Milestone											<u> </u>	
	Planned Activities Actual Work	♦ Milestone							18-Apr-23	Rev. D		FC		
		<ul> <li>Milestone</li> </ul>						Page 4 of 6	18-Apr-23 10-May-23					



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish				2023 Jun Jul A S Oct N D .											
SW1720	Install PA Equipment	12	27-Apr-24	11-May-24	13-Dec-24	27-Dec-24	13 14	15 1	6 1/	18         19         20         21         22         23         24         3	26 2/	28 29	30 31	32 33	34 35	36 37	38 39	40 41	42 43	44 45	46 47 4
SW1720	Install ET Equipment	12	13-May-24	27-May-24	28-Dec-24	11-Jan-25	1														
SW1730 SW1680	Install Manual Fallback Control Equipment	24	24-Jun-24	22-Jul-24	09-Jan-25	08-Feb-25	1														
SW1000 SW1700	Install Operation Facilities Equipment	14	26-Jun-24	12-Jul-24	21-Jan-25	08-Feb-25	1														
SW1700 SW1740	Signal Cable Laying	15	23-Jul-24	08-Aug-24	10-Feb-25	26-Feb-25	1														
East Ventilation		279	04-Sep-23	08-Aug-24	07-Sep-24	26-Feb-25	1						<b></b>								
SW2960	Inspect Civil Provisions & Submit Inspection Report	12	04-Sep-23	16-Sep-23	07-Sep-24													••••			
SW2970	Rectify Civil Provision Defects by Others	18	18-Sep-23	10-Oct-23	23-Sep-24	15-0ct-24	1														
Installation Wo		249	11-Oct-23	08-Aug-24	16-Oct-24	26-Feb-25	1						<b></b>								
SW1750	Install Cable Containments	24	11-0ct-23	08-Nov-23	16-0ct-24	12-Nov-24	1						• <b>-</b>								
SW1750 SW1760	Position Equipment Rack	12	09-Nov-23	22-Nov-23	23-Nov-24	06-Dec-24	+														
SW1700 SW1790	Install PABX Equipment	20	10-Nov-23	02-Dec-23	06-Nov-24	28-Nov-24	+						• • • • • • • • •								
SW1750 SW1770	Install Network Equipment	36	25-Mar-24	02 Dec 25 07-May-24	07-Dec-24	20-Jan-25	+														· · · · · · · · · · · · · · · · · · ·
SW1770 SW1810	Install Radio Equipment	12	13-Apr-24	26-Apr-24	29-Nov-24	12-Dec-24	+						88 8								
SW1820	Install PA Equipment	12	27-Apr-24	11-May-24	13-Dec-24	27-Dec-24	<u> </u>						₿ <u>₿</u>  -								
SW1820	Install ET Equipment	12	13-May-24	27-May-24	28-Dec-24	11-Jan-25	<b>{</b> ∤					╢╉	╏╌╬┼┼								
SW1780	Install Manual Fallback Control Equipment	24	24-Jun-24	22-Jul-24	09-Jan-25	08-Feb-25	<u> </u>					╢╌╢╴	₽∦- -  ► <mark> ─</mark> ─								
SW1780	Install Operation Facilities Equipment	14	24-Jun-24 26-Jun-24	12-Jul-24	21-Jan-25	08-Feb-25	<u> </u>					$\left\  \cdot \cdot \right\ _{1}$									
SW1800	Signal Cable Laying	14	23-Jul-24	08-Aug-24	10-Feb-25	26-Feb-25	+					╢╌╢╌	╞╌╗ _╋			┋╋╌╢╋					
Site Commissio		142	15-0ct-24	03-Apr-25	22-Nov-24	21-May-25													·		
TC1260	SCT of Power Distribution System	66	15-0ct-24	31-Dec-24	22-Nov-24	12-Feb-25	+					<b> </b>	╞╌╬┠╌┝								
TC1280	SCT of Traffic Control Devices	72	20-Nov-24	17-Feb-25	24-Feb-25		+														
TC1300	SCT of Detection System	72	11-Dec-24	10-Mar-25	18-Jan-25	16-Apr-25	+						<b></b>					·     -	·		
TC1330	SCT of ET System	48	11-Dec-24	10-Feb-25	13-Jan-25	12-Mar-25	+					╢╌┠╧			╶──┤┆		· · <b>│ · · · · · · · · · ·</b> · · · · · · · · ·				
TC1360	SCT of SEC System	48	11-Dec-24	10-Feb-25	24-Mar-25		+						• <b>- -</b>		···¦						
TC1270	SCT of CCTV System	60	11-Dec-24 18-Dec-24	03-Mar-25	10-Jan-25	21-May-25 24-Mar-25	+												- <b>]</b> -  -  -		
TC1600	SCT of Radio System	48	30-Dec-24	27-Feb-25	06-Jan-25	05-Mar-25															
TC1310	SCT of PA System	48	03-Jan-25	03-Mar-25	13-Feb-25	10-Apr-25															
TC1320	SCT of Communication System	48	07-Jan-25	06-Mar-25	07-Jan-25	06-Mar-25	+										-				
TC1290	SCT of PABX System	36	17-Jan-25	03-Mar-25	13-Mar-25	24-Apr-25	+						<b></b>			┉					
TC1350	SCT of Fibre Cable	48	07-Feb-25	03-Apr-25	27-Feb-25	24-Apr-25															
TC1230	SCT of GOFS System	18	21-Feb-25	13-Mar-25	29-Apr-25	21-May-25															
	ning Test Report	100	02-Jan-25	03-May-25	22-May-25	19-Jun-25							<b></b>								·
DS5050	Submit Power Distribution System SCT Test Report	24	02-Jan-25	01-Feb-25	22-May-25	19-Jun-25	1						• <b>-</b>			┉┈					
DS5110	Submit FOWER Distribution System Set Test Report	24	11-Feb-25	10-Mar-25	22-May-25	19-Jun-25	+						• • • • • • • • •								
DS5140	Submit Speed Enforcement System SCT Test Report	24	11-Feb-25	10-Mar-25	22-May-25	19-Jun-25	+						• • • • • • • • •								
DS5150	Submit Traffic Control Devices SCT Test Report	24	18-Feb-25	17-Mar-25	22-May-25	19-Jun-25	1						• <b>-</b>			╎╴┊╴┨					·
DS5060	Submit PA System SCT Test Report	24	04-Mar-25	31-Mar-25	22-May-25	19-Jun-25	+						<b></b>							·	
DS5000	Submit PABX System SCT Test Report	24	04-Mar-25	31-Mar-25	22-May-25	19-Jun-25	+									·   · · · · · · · · · · · · · · · · · ·					
DS5070	Submit CCTV System SCT Test Report	24	04-Mar-25	31-Mar-25	22-May-25		+					<b> </b>   +-	<b>   -</b>  - - - - - - - - - - - - - - - -			┼╶┊╴╋╽					
DS5080	Submit Communication System SCT Test Report	24	07-Mar-25	03-Apr-25	22-May-25	19-Jun-25	<u>+</u> +					╢╌╢╌	<b>  </b>					<b>-</b>			
DS5120	Submit Detection System SCT Test Report	24	11-Mar-25	03-Apr-25	22-May-25	19-Jun-25	+					<b> </b>						┋╣╬╴╢			
DS5320	Submit GOFS System SCT Test Report	24	14-Mar-25	11-Apr-25	22-May-25	19-Jun-25	<u> </u>					<b> </b>						╞╌╬╌╢			
DS5130	Submit Optical Fibre System SCT Test Report	24	04-Apr-25	03-May-25	22-May-25	19-Jun-25	++						<b> </b>					╘┨╝╴╢			
	Branch Tunnel in TKO-LTT Site	161	26-Feb-24	05-Sep-24	04-Jan-25	19-Jun-25	1					<b> </b>						· -			
SW1850	Inspect Civil Provisions & Submit Inspection Report	3	26-Feb-24	28-Feb-24	04-Jan-25	07-Jan-25					┈╌┼╴┥╌┝╺┝╸	<b> </b>						·			· · · ·   · · ·   ·
SW1860	Rectify Civil Provision Defects by Others	7	29-Feb-24	07-Mar-24	08-Jan-25	15-Jan-25	1														
Installation Wor		80	08-Mar-24	13-Jun-24	16-Jan-25	22-Apr-25	<b> </b>				-+[]]							···			· · · ·   · · ·   ·
SW1890	Install Cable Containments	36	08-Mar-24	19-Apr-24	01-Feb-25	14-Mar-25	1				╌┼╏┼										
SW1870	Install CCTV Camera	29	03-Apr-24	08-May-24	16-Jan-25	21-Feb-25	1											···     -			
SW1870	Install Detection Camera	29	13-Apr-24	18-May-24	28-Jan-25	05-Mar-25	1						<b> </b>   <b>-</b>   -								
SW1920	Signal Cable Laying	36	20-Apr-24	03-Jun-24	11-Mar-25	22-Apr-25	1					┡									
SW1920	Install Traffic Control Devices	24	24-Apr-24	23-May-24		20-Mar-25	+						<b>┨╸╸┥</b> ┙┠╶┝								
																		<b>I</b>	<u>+ </u>		
	Planned Activities 🔶	<ul> <li>Milestone</li> </ul>							_	T	Date			evision			Checke	,d	7	Approv	ed
	Actual Work										3-Apr-23 )-May-23		ev. D ev. E			FC FC		+			
	Critical Activity									Page 5 of $6^{\circ}$			ev. E ev. F			MY		-+			
GTI	ECH Services (Hong Kong) Limited										54120	<u>I</u> rv									

	Activity Name	Original Duration	Early Start	Early Finish	Late Start				N         D         Jan         F         M         Apr         M         Jun         Jul         Aug         S           35         36         37         38         39         40         41         42         43         44         45
SW1910	Laying of Leaky Cable	36	30-Apr-24	13-Jun-24	20-Feb-25	02-Apr-25			
Site Commission		63	25-May-24		10-Mar-25	21-May-25			
TC1400	SCT of Radio System	24	25-May-24	22-Jun-24	10-Mar-25	07-Apr-25		╴╴╎╴╴┣╪╼╠┊┊╎╵╵╴╴╵╴╴ ┠╪╘ <mark>┇┋╕</mark> ╪┙╵	· · · · · · · · · · · · · · · · · · ·
TC1380	SCT of Power Distribution System	15	04-Jun-24	21-Jun-24	27-Mar-25	14-Apr-25			
TC1370	SCT of ET System	10	28-Jun-24	10-Jul-24	01-Apr-25	12-Apr-25			· · · · · · · · · · · · · · · · · · ·
TC1390	SCT of CCTV System	5	28-Jun-24	04-Jul-24	09-Apr-25	14-Apr-25			
TC1410	SCT of Traffic Control Devices	15	05-Jul-24	22-Jul-24	15-Apr-25	02-May-25			
TC1420	SCT of Detection System	15	23-Jul-24	08-Aug-24	03-May-25	21-May-25			
	missioning Test Report	64	22-Jun-24	05-Sep-24	22-May-25	19-Jun-25			
DS5190	Submit Power Distribution System SCT Test Report	24	22-Jun-24	20-Jul-24	22-May-25	19-Jun-25		····	
DS5180	Submit Radio System SCT Test Report	24	24-Jun-24	22-Jul-24	22-May-25	19-Jun-25		···	
DS5170	Submit CCTV System SCT Test Report	24	05-Jul-24	01-Aug-24	22-May-25	19-Jun-25			
DS5160	Submit ET System SCT Test Report	24	11-Jul-24			19-Jun-25		·····································	
DS5200	Submit Traffic Control Devices SCT Test Report	24	23-Jul-24	19-Aug-24	22-May-25	19-Jun-25		···│··│·││││ <mark>≯</mark> ╤ <mark>ा</mark> │	
DS5200	Submit Detection System SCT Test Report	24	09-Aug-24		22-May-25	19-Jun-25	+	···│··│·│·│·│·│·│·│·│·	
Site Acceptance T		224	02-Jan-25	29-Sep-25	27-Jan-25	30-Sep-25		· · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · ·   · · · ·   · · · ·   · · · ·   · · · · ·   · · · · ·   · · · · ·   · · · · ·   · · · · · · · · · · · · · · · · · · · ·	
Phase 1 SAT		142	02-Jan-25	24-Jun-25	27-Jan-25	28-Jun-25			
TC1580	Readiness of Permanent Power & Air-conditioning	0	02-Jan-25	21501125	13-Feb-25				
TC1300	SAT of Manual Fallback Control System	96	07-Jan-25	03-May-25	27-Jan-25	24-May-25	+		···│··· <mark>···</mark> ↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓
TC1450	SAT of CCTV System	60	20-Jan-25	02-Apr-25	13-Feb-25	24-Apr-25			
TC1440 TC1490	SAT of ET System	36	11-Feb-25	24-Mar-25	13-Mar-25	24-Apr-25			
TC1430	SAT of Communication System	48	14-Feb-25	11-Apr-25	13-Mai-25 14-Feb-25	11-Apr-25			
TC1430	SAT of Radio System	36	28-Feb-25	11-Apr-25	06-Mar-25	17-Apr-25			
TC1400	SAT of Detection System	60	11-Mar-25	22-May-25	17-Apr-25	28-Jun-25			
TC1520	SAT of PA System	36	14-Mar-25	25-Apr-25	11-Apr-25	24-May-25			
TC1300	SAT of Traffic Control Devices	60	12-Apr-25	23-Api-25 24-Jun-25	12-Apr-25	24-Jun-25			
TC1400	SAT of Central System & Combined T2/TKOLTT Plans	56	12-Apr-25	19-Jun-25	12-Apr-25	19-Jun-25			
TC1470	SAT of PABX System	24	12-Apr-25		25-Apr-25	24-May-25			···∤···
Phase 2 SAT	SAT OF FADA System	86	20-Jun-25	29-Sep-25	20-Jun-25	29-Sep-25			···∤···∤···∤···
TC1530	Pre Cut-over Test	24	20-Jun-25	18-Jul-25	20-Jun-25	18-Jul-25			····│···│···│··│││││││
	Cut-over	24	19-Jul-25	15-Aug-25	19-Jul-25	15-Aug-25			
TC1540	Migration Test	34	21-Jul-25	28-Aug-25		28-Aug-25			
						I			· · · · · · · · · · · · · · · · · · ·
TC1560	Route-wide Traffic Plan Test	38	16-Aug-25	-	16-Aug-25	29-Sep-25			
SAT Test Reports		99	25-Mar-25	23-Jul-25	18-Apr-25	30-Sep-25			· · · · · · · · · · · · · · · · · · ·
DS5240	Submit ET System SAT Test Report	24	25-Mar-25		25-Apr-25	24-May-25			
DS5230	Submit CCTV System SAT Test Report	24	03-Apr-25		25-Apr-25	24-May-25			
DS5220	Submit Communication System SAT Test Report	24	12-Apr-25		25-Apr-25	24-May-25			
DS5250	Submit Radio System SAT Test Report	24	12-Apr-25	-	18-Apr-25	17-May-25			
DS5270	Submit PA System SAT Test Report	24	26-Apr-25	-	26-May-25	23-Jun-25			
DS5310	Submit Manual Fallback Control System SAT Test Report	24	06-May-25		26-May-25	23-Jun-25			
DS5260	Submit PABX System SAT Test Report	24	13-May-25		26-May-25	23-Jun-25			
DS5290	Submit Detection System SAT Test Report	24	23-May-25		03-Sep-25	30-Sep-25			
DS5300	Submit Central System SAT Test Report	24	20-Jun-25	18-Jul-25	03-Sep-25	30-Sep-25			
DS5280	Submit Traffic Control Devices SAT Test Report	24	25-Jun-25	23-Jul-25	03-Sep-25	30-Sep-25			
-	Seessment & Audit	81	12-Jun-25	· ·	26-Jun-25	29-Sep-25			
DS7330	Conduct IT Security Risk Assessment & Audit	22	12-Jun-25	08-Jul-25	26-Jun-25	22-Jul-25			
DS7335 DS7450	Submission of IT Security Risk Assessment & Audit Report	15	09-Jul-25	25-Jul-25	23-Jul-25	08-Aug-25			
	Remedy Works for IT Security Risk Assessment & Audit	30	09-Jul-25	12-Aug-25	23-Jul-25	26-Aug-25			
	Re-conduct IT Security Risk Assessment & Audit	14	13-Aug-25	_	27-Aug-25	11-Sep-25	.               -		
DS7450 DS7460 DS7700	Submission of IT Security Risk Assessment Verification Report			15-Sep-25	1/-Sen-/5	29-Sep-25			



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 Ca	&D Materials Gen	erated Montl	nly	Actual	Quantities of	f C&D Waste	s Generated M	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	0.062
February	6.052	0.000	0.000	6.052	0.000	0.000	47.250	0.660	0.000	0.000	0.088
March											
April											
May											
June											
Sub-total	16.214	0.000	0.000	16.214	0.000	0.000	178.770	1.260	0.000	0.000	0.150
July											
August											
September											
October											
November											
December											
Total	16.214	0.000	0.000	16.214	0.000	0.000	178.770	1.260	0.000	0.000	0.150

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).

		Actual Quan	tities of Inert C&	D Materials Genera	v					ntities of C&D W	aste 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														
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.