#### **Civil Engineering and Development Department**

### **Trunk Road T2**

## Monthly Environmental Monitoring and Audit Report (under EP-458/2013/C)

February 2024

(Version 1.0)

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

**REMARKS**:

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

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

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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-458/2013/C

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 email on 11 March 2024. We are pleased to inform you that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.4 of EP-458/2013/C.

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

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

V

Y H Hui Independent Environmental Checker

c.c. CEDD BTP Cinotech Attn.: Mr. Tommy Wong Attn.: Mr. Ivan Chau Attn.: Mr. K. S. Lee By Fax: 2739 0076 By Email By Fax: 3107 1388

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#### **EXECUTIVE SUMMARY**

#### Introduction

1. This is the 46<sup>th</sup> Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. ED/2018/04 "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron", and Contract No. ED/2020/03 "Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-458/2013/C and in accordance with the EM&A Manual (AEIAR-173/2013) during the reporting month of February 2024.

#### Summary of Main Works Undertaken and Key Measures Implemented

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

#### Table I Summary of Key Construction Work in the Reporting Month

Contract No.	Project Title	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	
ED/2020/03	Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works <sup>(1)</sup>	N/A

Notes:

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

N/A: Not applicable

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

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

Contract No. and Project Title	Key Mitigation Measures Implemented		
ED/2018/04 - Trunk Road T2 and Infrastructure Works for	<ul> <li><i>Construction Noise</i></li> <li>Construction activities were scheduled to minimize noise nuisance to the nearby sensitive receiver.</li> <li>Use of Quality Powered Mechanical Equipment (QPME) on site.</li> </ul>		

	Wontiny EMAA Report – February 2024			
Developments at	Erected the noise barrier on site.			
South Apron	Air Quality			
	• Regularly watering on site to avoid dust generation.			
	Landscape and Visual			
	• Tree protection zones were fenced off to protect the existing trees on site.			
ED/2020/03 -				
Trunk Road T2 -				
Traffic Control				
And Surveillance	N/A			
System (TCSS)				
and Associated				
Works <sup>(1)</sup>				

Notes:

(1): No major construction work was undertaken during reporting month. N/A: Not applicable

#### **Environmental Monitoring Works**

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

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

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

Heritage					
Landfill Gas	N/A <sup>(1)</sup>	N/A	N/A <sup>(1)</sup>	N/A	N/A

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

#### Air Quality Monitoring

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

#### Construction Noise Monitoring

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

Water Quality Monitoring

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

Waste Management

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

#### Ecological Monitoring

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

Fisheries Impact Monitoring

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

Monitoring on Cultural Heritage

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

Landscape and Visual Monitoring and Audit

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

Landfill Gas Monitoring

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

Hazard to Life Monitoring

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

#### Environmental Site Inspection

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

#### Key Information in the Reporting Month

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

# Table IVSummary of Complaints, Notifications of Summons and Successful Prosecutions inthe Reporting Month

Event	<b>Event Details</b>		Action Taken	Status	
Event	Number	Nature	Action Taken	Status	
Complaints Received	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

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

Table V         Summary of Complaints Details in Report	rting Month
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Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure

#### **Reporting Changes**

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

#### **Future Key Issues**

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

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

Contract No. and Project Title	Site Activities (March 2024)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	<ol> <li>East Bound – Wall &amp; Crown, OHVD</li> <li>East Ventilation Building – RC Structure, ABWF, E&amp;M.</li> <li>West Bound – Bulkhead Construction, OHVD</li> </ol>	(A) / (B) / (C) / (D)
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System	N/A	

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Notes:

- (1): No major construction work was undertaken during reporting month.
- N/A: Not applicable
- (A) Dust generation from haul road, stockpile of dusty materials, exposed site area, excavation works and rock breaking activities;
- (B) Noisy construction activity such as rock-breaking activities and piling works
- (C) Runoff from exposed slope or site area; and
- (D) Wastewater and runoff discharge from site.

#### 1. INTRODUCTION

#### Background

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

Environmental Permit	Works Description
EP-451/2013 – Trunk Road T2	<u>ED/2018/04</u>
	• Construction of highway and sub-sea tunnel connecting between Central Kowloon Route and Cha Kwo Ling Tunnel
	• Western & Eastern Ventilation Buildings
	<u>ED/2020/03</u>
	Design and construction of TCSS for Trunk Road T2
EP-458/2013/C – Tseung Kwan O –	<u>ED/2018/04</u>
Lam Tin Tunnel (TKOLTT) and	• Construction of Cha Kwo Ling Tunnel from the end of Trunk Road
Associated Works	T2 to the TKOLTT at the Eastern Ventilation Building
	<u>ED/2020/03</u>
	Design and construction of TCSS for Trunk Road T2

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

1.4 Under Agreement No. CE 59/2015 (EP) – Tseung Kwan O – Lam Tin Tunnel (TKOLLT) and Associated Works, the baseline monitoring works in Lam Tin under the EM&A Manual (AEIAR-173/2013) were conducted by the Environmental Team (ET) for the Agreement No. CE 59/2015 (EP) at the approved monitoring locations, namely AM1, AM2, AM3, AM4, AM4 (A) CM1, CM2, CM3, CM4 and CM5. Impact monitoring within the Lam Tin area shall be conducted by the ET of Contract No. ED/2018/04 upon cessation of Agreement No. CE 59/2015 (EP). The data obtained from the impact monitoring works completed by the ET of Agreement No. CE 59/2015 (EP) will be adopted in this report.

1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron" (hereinafter called the "Project").

#### **Purpose of the Report**

1.6 This is the 46<sup>th</sup> 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**

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

1 abic 1.1	Key I Toject Contacts		
Party	Role	Contact Person	Phone No.
CEDD	Permit Holder	Mr. Wong Chi Wai, Tommy	3842 7111
HMJV	Supervisor Representative	Ms. Hazel Tang	2149 8524
Circotool	Environmental Team	Mr. KS Lee (ETL)	2151 2091
Cinotech	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

Table 1.1Key Project Contacts

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

#### Construction Activities undertaken during the Reporting Month

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

Table 1.2         Summary of Key Construction Work in the Reporting Month	Table 1.2	Summary of Key	Construction	Work in the	<b>Reporting Month</b>
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Contract No.	Project Title	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	• East Ventilation Building – RC Structure,
ED/2020/03	Trunk Road T2 – Traffic Control And Surveillance System (TCSS) and Associated Works <sup>(1)</sup>	N/A

Notes:

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

N/A: Not applicable

#### Summary of EM&A Requirements

- 1.11 The EM&A programme requires construction noise, air quality monitoring and environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:
  - All monitoring parameters;
  - Action and Limit levels for all environmental parameters;
  - Event Action Plans;
  - Environmental mitigation measures, as recommended in the Project EIA Report.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 12** of this report.
- 1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in February 2024.

#### Status of Environmental Licensing and Permitting

1.14 All permits/licenses obtained for the Project are summarized in **Table 1.2**.

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

Domeit / Linourge No	Valid Period		States		
Permit / License No.	From	То	Status		
Environmental Permit (EP)					
EP-451/2013	19 Sep 2013	N/A	Valid		
EP-458/2013/C	20 Jan 2017	N/A	Valid		
Notification pursuant to Air Pollution (Const	ruction Dust) R	legulation			
Ref. No.: 451120	20 Nov 2019	N/A	Valid		
Billing Account for Construction Waste Disposal					
A/C No.: 7036016	09 Dec 2019	N/A	Valid		
Construction Noise Permit					
CNP No. (For Portion U): GW-RE1481-23	1 Dec 2023	31 Mar 2024	Valid		
CNP No. (For Portion Q):GW-RE1557-23	21 Dec 2023	20 Apr 2024	Valid		
CNP No. (For Portion T1): GW-RE1457-23	27 Nov 2023	22 Feb 2024	Expired on 22 Feb 2024		
CNP No. (For Portion T1): GW-RE0188-24	23 Feb 2024	18 Aug 2024	Valid		
Wastewater Discharge License					
WT00036699-2020	14 Jan 2021	31 Jan 2026	Valid		
Chemical Waste Producer License					
WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid		

#### 2. AIR QUALITY

#### **Monitoring Requirement**

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

#### **Monitoring Locations**

2.2 Five designated monitoring stations were selected for air quality monitoring programme. Table2.1 describes the air quality monitoring locations, which are also depicted in Figure 2.

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

#### **Table 2.1 Air Quality Monitoring Locations**

Remarks:

(1) For 1-hour TSP monitoring;

(2) For 24-hour TSP monitoring

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

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

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

#### **Monitoring Parameters and Frequency**

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

#### Table 2.2 Frequency and Parameters of Air Quality Monitoring

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

#### **Monitoring Equipment**

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

Tuble 2.5 Am Quanty Monitoring Equipment				
Equipment	Model	Quantity		
1-hour TSP Dust Meter	Sibata Model No. LD-5R (Serial No.: 972781, 972777, 972778, 972780, 8Y2374, 8Y2373)	6		
HVS Sampler	GMW model: GS2310 (Serial No.: 1287, 10379, 10599)	3		
_	TE 5170 (Serial No.: 1956)	1		
Calibrator TISCH Model: TE-5025A (Serial No.: 3864)		1		
Wind Anemometer	Davis Weather Monitor II, Model no. 7440 (Serial No.: MC01010A44)	1		

#### Table 2.3Air Quality Monitoring Equipment

#### **Monitoring Methodology**

#### 1-hour TSP Monitoring

#### Measuring Procedures

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

(Sibata Model No.: LD-5R)

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

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

#### Maintenance/Calibration

- 2.8 The following maintenance/calibration is required for the 1-hour dust meter:
  - Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

#### 24-hour TSP Monitoring

#### **Instrumentation**

- 2.9 High volume samplers (HVS) (TISCH Model: TE-5170 and GMW Model: GS2310) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).
- 2.10 The positioning of the HVS samplers are as follows:
  - A horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
  - No two samplers shall be placed less than 2 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

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

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

#### Maintenance/Calibration

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

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

#### **Results and Observations**

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

The monitoring schedule is shown in **Appendix D**.

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

able 2.4 Major Dust Source during Air Quanty Monitoring		
Monitoring Stations	Major Dust Source	
AM1 – Tin Hau Temple	Road Traffic at Cha Kwo Ling Road, non-project related influence and the construction activity from other construction site (i.e underground utility work in TKOLTT project)	
AM2 – Sai Tso Wan Recreation Ground	Road Traffic along Sin Fat Road	
AM3 – Yau Lai Estate Bik Lai House	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project related influence and the construction activity from other construction site (i.e road paving work in TKOLTT project)	
AM4 - Sitting-out Area at Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road	
AM4(B) <sup>(**)</sup> - Flat 103 Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road <sup>(*)</sup>	

#### Table 2.4 Major Dust Source during Air Quality Monitoring

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

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

#### Comparison of EM&A Result with EIA Prediction

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

Table 2.5         Comparison of 1-hr TSP Monitoring Data with Predictions in EIA Report				
Monitoring Stations	ASR ID	Predicted Maximum 1-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m <sup>3</sup>	Maximum 1-hr TSP Concentration in the Reporting Month (February 2024), µg/m <sup>3</sup>	
AM1 – Tin Hau Temple	CL1	707	122.0	
AM2 – Sai Tso Wan Recreation Ground	CL6	266	135.0	
AM3 – Yau Lai Estate Bik Lai House	CL9	507	159.6	
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	250.8	

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

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m <sup>3</sup>	Maximum 24-hr TSP Concentration in the Reporting Month (February 2024), µg/m <sup>3</sup>
AM1 – Tin Hau Temple	CL1	199	50.5
AM2 – Sai Tso Wan Recreation Ground	CL6	109	35.3
AM3 – Yau Lai Estate Bik Lai House	CL9	123	22.7
AM4(B) – Flat 103 Cha Kwo Ling Village <sup>(*)</sup>	N/A <sup>(1)</sup>	N/A <sup>(1)</sup>	113.9 (**)

Remarks:

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

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

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

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

- Monthly EM&A Report February 2024
- 2.21 In the reporting month, the 24-hour TSP concentrations at AM1, AM2 and AM3 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). No Action Level exceedance was recorded for 24-hour TSP monitoring in the reporting month and no Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

#### 3. NOISE

#### **Monitoring Requirements**

3.1 According to Section 3.2.1 of the EM&A Manual (AEIAR-173/2013), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. Appendix A shows the established Action and Limit Levels for the environmental monitoring works.

#### **Monitoring Locations**

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

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

#### Table 3.1Noise Monitoring Stations

#### Monitoring Parameters, Frequency and Duration

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

Table 3.2	Frequency and Parameters of Noise Monitoring				
Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
CM1				$\mathbf{L}$ (20 min )	Façade Measurement
CM2				L <sub>10</sub> (30 min.) dB(A)	Façade Measurement
CM3	0700-1900 hrs on normal	30 minutes	Once per week	L <sub>90</sub> (30 min.) dB(A)	Façade Measurement
CM4	weekdays			L <sub>eq</sub> (30 min.)	Façade Measurement
CM5				dB(A)	Façade Measurement

Table 3.2Frequency and Parameters of Noise Monitoring

#### Monitoring Equipment

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

Table 5.5 Noise Monitoring Eq	laibineur	
Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308 (Serial No.: 580287, 570187,580238) SWAN 979 (Serial No.:27189)	4
Calibrator	ST-120 (Serial No.: 181001608,181001636) AWA6021A (Serial no. 1023253)	3

#### Table 3.3Noise Monitoring Equipment

#### Monitoring Methodology and QA/QC Procedure

- 3.5 The monitoring procedures are as follows:
  - The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
  - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
  - The battery condition was checked to ensure the correct functioning of the meter.
  - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
    - Frequency weighting: A
    - Time weighting: Fast
    - Time measurement: 30 minutes
  - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
  - The wind speed was frequently checked with the portable wind meter.
  - At the end of the monitoring period, the L<sub>eq</sub>, L<sub>90</sub> and L<sub>10</sub> were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
  - Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

#### Maintenance and Calibration

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

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

#### **Results and Observations**

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

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

 Table 3.4
 Other Noise Source Identified during Noise Monitoring

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

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
CM1	65.5	
CM2	63.6	75
CM3	65.6	15
CM4	62.0	

CM5	68.2	70*		
(*) Noise Limit Level is 65 dB(A) during school examination periods				

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

#### Comparison of EM&A Result with EIA Prediction

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

#### Table 3.6 **Maximum Predicted Mitigated Construction Noise Levels in EIA Report**

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 173/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (February 2024), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	68.0
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	70.0
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	66.0
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	70.0
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	70.0

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

#### 4. WATER QUALITY

#### **Monitoring Requirement**

#### Groundwater Quality

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

#### Marine Water Quality

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

#### Groundwater Level Monitoring (Piezometer Monitoring)

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

#### 5. WASTE MANGEMENT

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

#### 6. ECOLOGY

#### **Post-Translocation Coral Monitoring**

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

#### 7. FISHERIES

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

#### 8. CULTURAL HERITAGE

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

#### Mitigation Measures for Cultural Heritage

8.3 According to Condition 3.6 of EP-458/2013/C, to prevent damage to Cha Kwo Ling Tin Hau Temple and its Fung Shui rocks (Child-given rocks) during the construction phase, a temporarily fenced-off buffer zone (Rocks buffer zone is 5 m from the edge of Rocks and 15m from the edge of Rocks alter) with allowance for public access (minimum 1 m) around the temple and the Fung Shui rocks shall be provided. The open yard in front of the temple should be kept as usual for annual Tin Hau festival.

8.4 As there is a large buffer distance from the current works to Cha Kwo Ling Tin Hau Temple and the Fung Shui rocks (Child-given rocks), the temporarily fenced-off rocks buffer zone and from the edge of Rocks alter is not required. The fenced-off rocks buffer zone would be implemented when there is construction activities in vicinity of the cultural heritage.

#### 9. LANDSCAPE AND VISUAL IMPACT

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

### **10. LANDFILL GAS MONITORING**

#### **Monitoring Requirement**

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

#### 11. HAZARD TO LIFE

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

#### **12. ENVIRONEMNTAL AUDIT**

#### Site Audits

- 12.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in Appendix I.
- 12.2 Site audits were conducted on 01, 08, 15, 22 & 29 February 2024 in the reporting month. Site inspection of the IEC was conducted on 22 February 2024. No non-compliance was observed during the site audit.

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

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

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	22 February 2024	3-sides barriers should be provided when conducting cement mixing activities.	3-sides barriers were provided.
Noise	N/A	There was no observation in the reporting period.	N/A
Water Quality	N/A	There was no observation in the reporting period.	N/A
Ecology	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Waste/Chemical Management	29 February 2024	Accumulation of general refuses were observed at the site entrance.	To be reported in the next reporting month.
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

 Table 12.1
 Observations and Recommendations of Site Audit

#### **Implementation Status of Event and Action Plans**

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

#### Air Quality Monitoring

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

Construction Noise Monitoring

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

#### 13. ENVIRONMENTAL NON-COMFORMANCE

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

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

#### **Summary of Exceedance**

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

#### **14. FUTURE KEY ISSUES**

- 14.1 Tentative construction programmes for the next three months are provided in Appendix O.
- 14.2 Major site activities undertaken for the coming months are summarized as follows:

n	ext 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>East Bound – Wall &amp; Crown, OHVD</li> <li>East Ventilation Building – RC Structure, ABWF, E&amp;M.</li> <li>West Bound – Bulkhead Construction, OHVD</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>		
	ED/2020/03 - Trunk Road T2 - Traffic	N/A			

# Table 14.1Summary 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
Control And		
Surveillance System (TCSS) and		
Associated Works <sup>(1)</sup>		

Notes:

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

N/A: Not applicable

#### **Monitoring Schedule**

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

#### 15. CONCLUSION AND RECOMMENDATION

#### Conclusions

15.1 This is the 46<sup>th</sup> Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-173/2013) and the requirement under EP.

#### Air Quality Monitoring

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

#### Construction Noise Monitoring

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

#### Site Audit

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

Complaint, Notification of Summons and Successful Prosecution

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

#### Recommendations

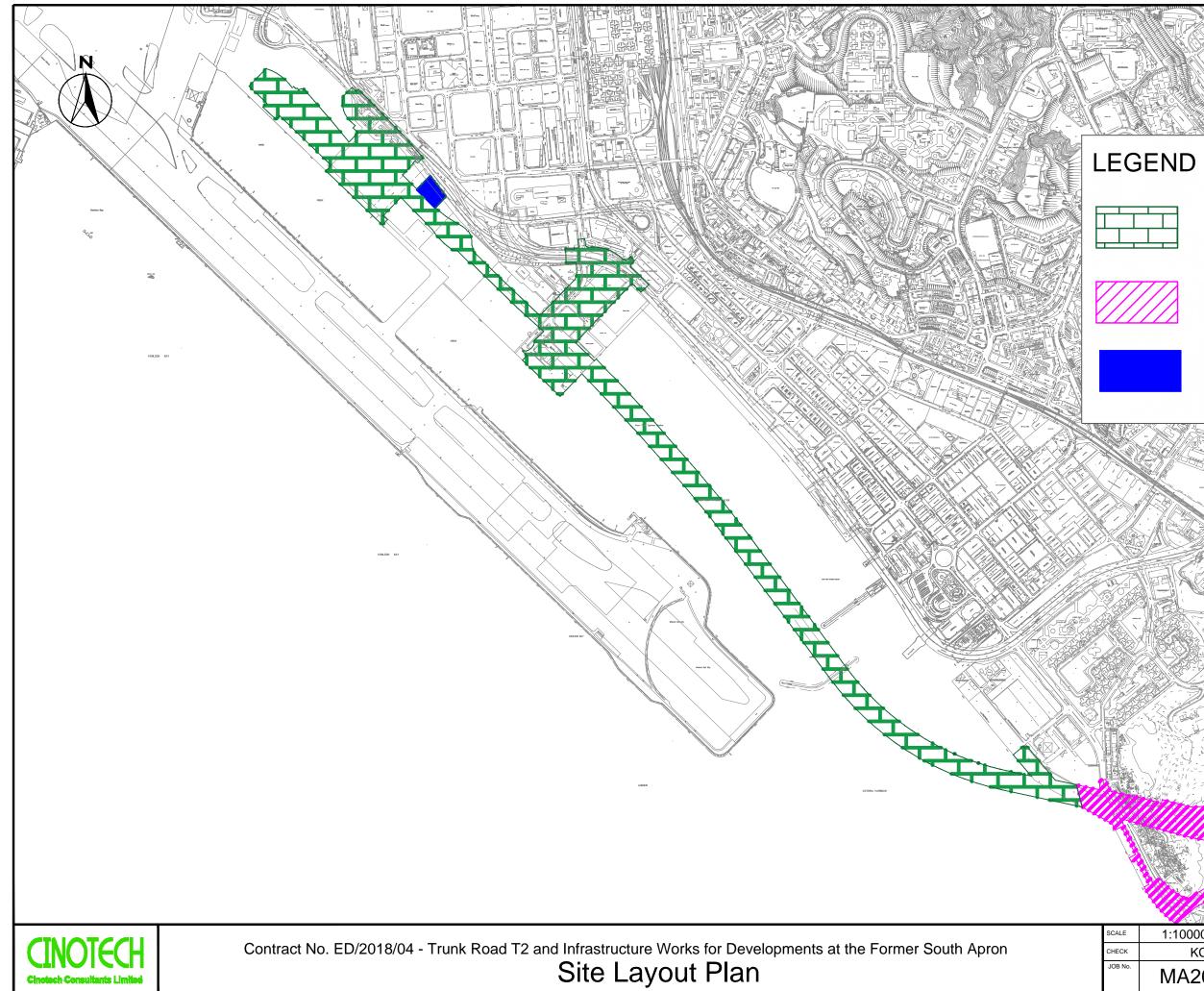
15.8 According to the environmental audit performed in the reporting month, the following recommendations were made:

#### ED/2018/04

Air Quality

- 3-sides barriers should be provided when conducting the cement mixing activities. *Waste/ Chemical Management.*
- The site and surrounding should be kept tidy and litter free, remove the waste regularly.

FIGURES



**Cinotech Consul** 

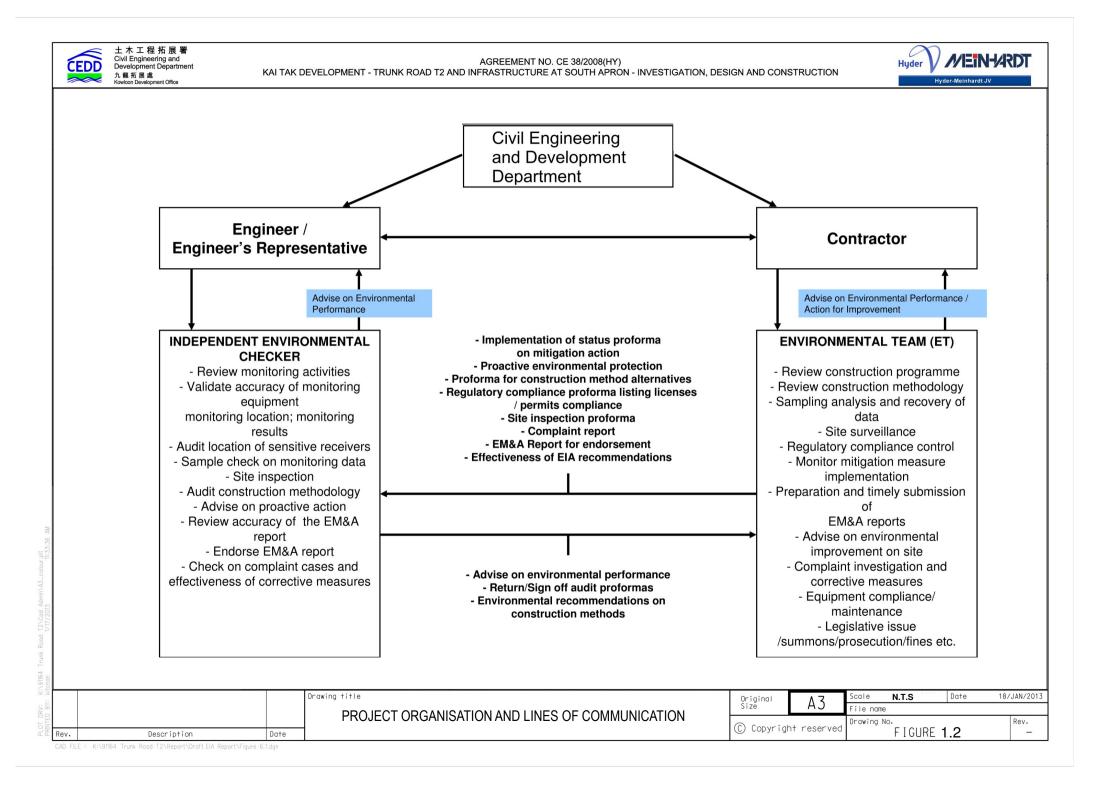
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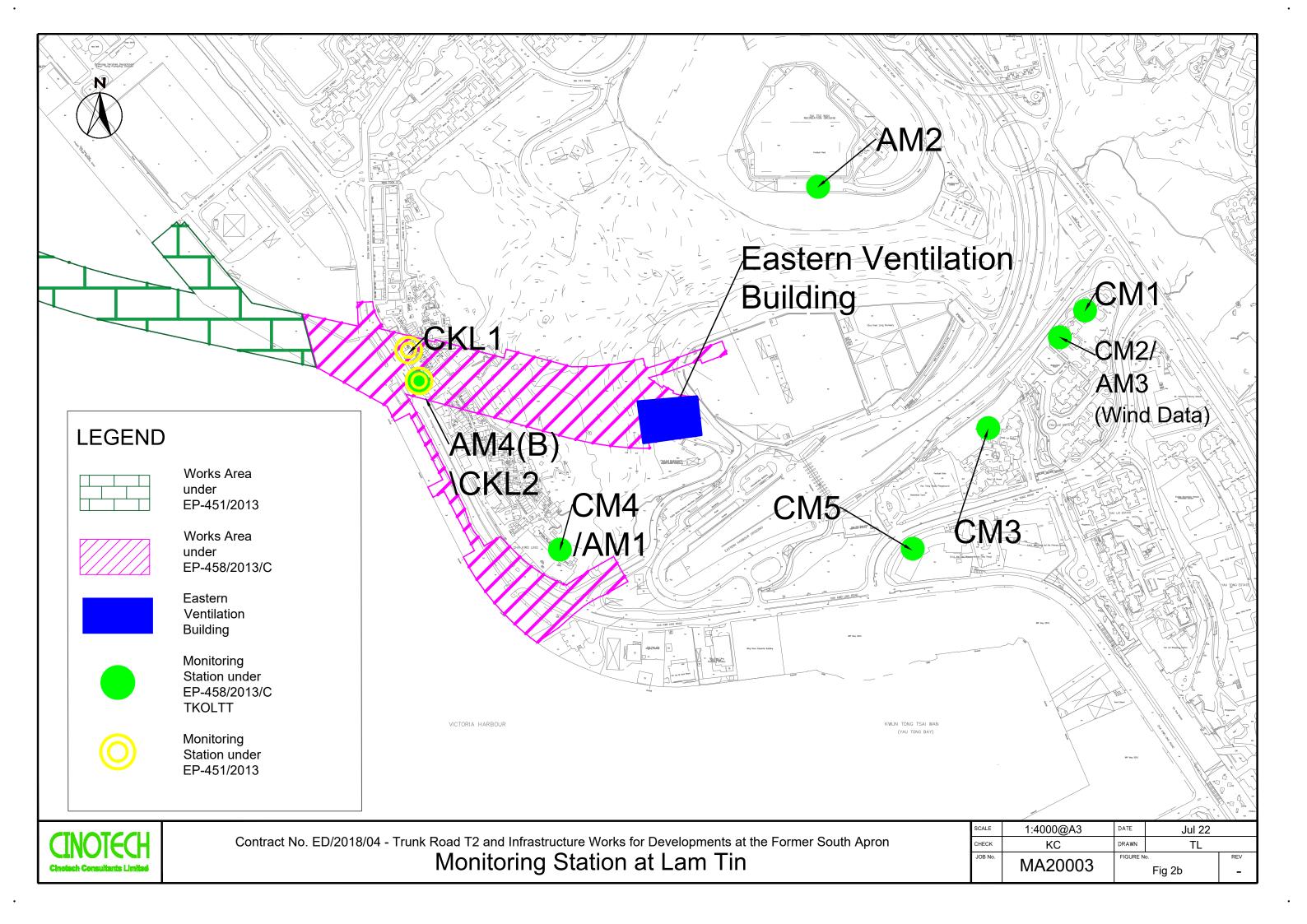
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

Ventilation Building

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APPENDIX A ACTION AND LIMIT LEVELS

### **APPENDIX A – Action and Limit Levels**

### Air Quality

### 1-hr TSP

Monitoring Stations	Location	Action Level, μg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM1	Tin Hau Temple	275	
AM2	Sai Tso Wan Recreation Ground	273	500
AM3	Yau Lai Estate Bik Lai House	271	500
AM4	Sitting-out Area at Cha Kwo Ling Village	278	

#### 24-hr TSP

Monitoring Stations	Location	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM1	Tin Hau Temple	173	
AM2	Sai Tso Wan Recreation Ground	192	
AM3	Yau Lai Estate Bik Lai House	167	260
AM4(B)	Flat 103 Cha Kwo Ling Village	210	

#### <u>Noise</u>

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

 $^{1}$  70 dB(A) for schools and 65 dB(A) for schools during examination period.

 $^{2}$  Acceptable Noise Levels for Area Sensitivity Rating of A/B/C 3 If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

### **Landfill Gas Monitoring**

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

APPENDIX B COPIES OF CALIBRATION CERTIFICATES

.



File No. MA16034/05/0045

Project No.	AM1 - Tin Hau	ı Temple	1			
Date:	12-I	Dec-23	Next Due Date:	12-Feb-24	Operator:	SK
Equipment No.:	A-	01-05	Model No.:	GS2310	Serial No.	10599
			Ambient Cond	ition		
Temperature, Ta (K) 297.7		Pressure, Pa (mn	nHg)	762.2		

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 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	13.0	3.61	61.53	9.0	3.01		
2	10.3	3.22	54.83	6.7	2.59		
3	7.3	2.71	46.26	4.8	2.20		
4	5.3	2.31	39.50	2.8	1.68		
5	2.9	1.71	29.37	1.5	1.23		
By Linear Regression of Y on X Slope , mw =0.0559 Intercept, bw :0.4498 Correlation coefficient* =0.9970							
*If Correlation C	Coefficient < 0.990	), check and recalibrate.					
		Set Point C	alculation				
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM					
From the Regres	sion Equation, the	"Y" value according to					
$mw \ x \ Qstd + bw = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = ( mw x Qstd + bw ) <sup>2</sup> x ( 760 / Pa ) x ( Ta / 298 ) =3.81							
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	k	火.	Date: 12-Dec-23		
Checked by:	Henry I	Leung Signature:	-lem	N. Janj	Date: 12-Dec-23		

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File No. MA16034/05/0046

Project No.	AM1 - Tin Hau	1 Temple					
Date:	14-I	Feb-24	Next Due Date:	14-Apr-24	Operator:	SK	
Equipment No.:	A-0	01-05	Model No.:	GS2310	Serial No.	10599	
							_
			Ambient Condit	ion			
Temperatu	re, Ta (K)	294	Pressure, Pa (mm	Hg)	765.2		
			<u>.</u>	<u>.</u>			

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

Calibration of TSP Sampler							
Calibration		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	12.8	3.61	61.32	8.8	3.00		
2	10.1	3.21	54.56	6.5	2.58		
3	7.2	2.71	46.20	4.6	2.17		
4	5.2	2.30	39.39	2.7	1.66		
5	2.8	1.69	29.13	1.3	1.15		
By Linear Regression of Y on X Slope , mw =							
Correlation	coefficient* =	0.9982	_				
*If Correlation C	Coefficient < 0.990	), check and recalibrate.					
		Set Point C	alculation				
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM					
From the Regres	sion Equation, the	"Y" value according to					
		$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$					
Therefore, Se	et Point; W = ( mv	$(x + bw)^2 x (760 / Pa) x (760 / Pa)$	Ta / 298 ) =	3.65			
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	k	X	Date: 14-Feb-24		
Checked by:	Henry I	Leung Signature:	-lem	N- 7 X-7	Date: 14-Feb-24		



File No. MA16034/08/0045

Project No.	AM2 - Sai Tso Wan Recreation Ground						
Date:	12-1	Dec-23	Next Due Date:	12-Feb-24	Operator:	SK	
Equipment No.:	A-	01-08	Model No.:	GS2310	Serial No.	1287	
Ambient Condition							
Temperatu	ire, Ta (K)	297.7	Pressure, Pa (mml	Hg)	762.2		

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 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	13.1	3.63	61.76	8.7	2.96
2	10.2	3.20	54.57	6.4	2.53
3	7.4	2.73	46.57	4.5	2.13
4	5.1	2.26	38.76	3.0	1.74
5	2.9	1.71	29.37	1.5	1.23
Slope , mw = Correlation	coefficient* =	<b>0.9997</b> ), check and recalibrate.	Intercept, bw = 	-0.323	34
From the Regres	sion Equation, the	Set Point C urve, take Qstd = 43 CFM e "Y" value according to $mw x Qstd + bw = [\Delta W$ $v x Qstd + bw )^2 x (760 / Pa) x ($	x (Pa/760) x (29		
Remarks:					
	Wong Shi	ng Kwai Signature Leung Signature	: :lem	N. Janj	Date: 12-Dec-23 Date: 12-Dec-23



File No. MA16034/08/0046

Project No.	AM2 - Sai Tso	Wan Recreatio	n Ground			
Date:	14-F	eb-24	Next Due Date:	14-Apr-24	Operator:	SK
Equipment No.:	A-0	1-08	Model No.:	GS2310	Serial No.	1287
			Ambient Condition	on		
Temperatu	ure, Ta (K)	294	Pressure, Pa (mmH	g)	765.2	
		<i>.</i>		<b>T</b> 0 ( <b>1</b>		

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

		Calibration o	f TSP Sampler		
		Orfice	-		HVS
Calibration Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	13.0	3.64	61.79	8.6	2.96
2	10.0	3.19	54.30	6.3	2.54
3	7.4	2.75	46.83	4.4	2.12
4	5.0	2.26	38.64	2.8	1.69
5	2.8	1.69	29.13	1.4	1.20
Slope , mw = Correlation	coefficient* =	0.9998 ), check and recalibrate.	Intercept, bw : 	-0.391	9
From the Regres	sion Equation, the	Set Point urve, take Qstd = 43 CFM z "Y" value according to $mw x Qstd + bw = [\Delta W$ $v x Qstd + bw )^2 x (760 / Pa) x$			
Remarks:					
	Wong Shi	ng Kwai Signatur Leung Signatur	e: e:le_	N. Janj	Date: 14-Feb-24 Date: 14-Feb-24

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File No. MA16034/03/0045

Project No.	AM3 - Yau Lai	i Estate, Bik Lai	House			
Date:	12-I	Dec-23	Next Due Date:	12-Feb-24	Operator:	SK
Equipment No.:	A-(	01-03	Model No.:	G\$2310	Serial No.	10379
Temperatu	re Ta (K)	297.7	Ambient Conditi Pressure, Pa (mmH		762.2	
Temperatu	iie, 1a (K)	231.1	Tressure, T a (mm)	ig)	702.2	

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

Calibration of TSP Sampler								
Calibration			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		0) x (298/Ta)] <sup>1/2</sup> -axis		
1	12.9	3.60	61.30	8.5	~	2.92		
2	10.6	3.26	55.62	6.5		2.55		
3	7.8	2.80	47.79	4.6		2.15		
4	5.0	2.24	38.38	2.9	1	1.71		
5	3.0	1.74	29.86	1.7	1	1.31		
Slope , mw = Correlation	coefficient* =	0.9983	Intercept, bw : -	-0.232	9			
*If Correlation C	Coefficient < 0.990	), check and recalibrate.						
		Set Point C	alculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	e "Y" value according to						
Therefore, Se	et Point; W = ( mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ v x Qstd + bw ) <sup>2</sup> x ( 760 / Pa ) x (						
Remarks:								
Conducted by:	Wong Shi	ng Kwai Signature:	k	<u>у</u>	Date:	12-Dec-23		
Checked by:	Henry I	Leung Signature:	-lem	7 <sup>x</sup> ~7	Date:	12-Dec-23		

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File No. MA16034/03/0046

Project No.	AM3 - Yau Lai	Estate, Bik La	i House			
Date:	14-F	Feb-24	Next Due Date:	14-Apr-24	Operator:	SK
Equipment No.:	A-(	01-03	Model No.:	GS2310	Serial No.	10379
			Ambient Condit	ion		
Temperatu	re, Ta (K)	294	Pressure, Pa (mml	Hg)	765.2	
	-					

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

		Calibration of	TSP Sampler					
Calibration Orfice HVS								
Point	$\Delta H$ (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	12.8	3.61	61.32	8.4	2.93			
2	10.5	3.27	55.62	6.4	2.56			
3	7.7	2.80	47.75	4.5	2.14			
4	4.9	2.24	38.26	2.8	1.69			
5	3.0	1.75	30.12	1.6	1.28			
Slope , mw =	ession of Y on X 0.0520 coefficient* =	0.9987	Intercept, bw :	-0.305	3			
		), check and recalibrate.						
		Set Point C	alculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	"Y" value according to						
Therefore, Se	et Point; W = ( mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ v x Qstd + bw ) <sup>2</sup> x ( 760 / Pa ) x ( 7						
Remarks:								
Conducted by:	Wong Shi	ng Kwai Signature:	k	<u>Д.</u>	Date: 14-Feb-24			
Checked by:	Henry I	Leung Signature:	-lem	J. ~	Date: 14-Feb-24			

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File No. MA20003/55/024

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

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

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	By Linear Regression of Y on X Slope , mw =0.0580 Intercept, bw :0.5302 Correlation coefficient* =0.9963 *If Correlation Coefficient < 0.990, check and recalibrate.					
	Set Point Calculation           From the TSP Field Calibration Curve, take Qstd = 43 CFM           From the Regression Equation, the "Y" value according to					
Therefore, Se	$mw \ x \ Qstd + bw = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = ( mw x Qstd + bw ) <sup>2</sup> x ( 760 / Pa ) x ( Ta / 298 ) =3.72					
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	



### **Certificate of Calibration**

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

Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Caliba	ration Record	30-Mar-24
Model No.:	LD-5R				
Serial No.:	8Y2374				
Equipment No.:	SA-01-04	Sensitivity	0.001 mg/m3	-	
High Volume Sa	ampler No.: A-01-03	Before Sensitiv	vity Adjustment	652	
Tisch Calibratio	on Orifice No.: <u>3864</u>	After Sensitivit	ty Adjustment	652	
	Ca	alibration of 1 h	r TSP		
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (µg/m3) <b>X-axis</b>		Mass concentration (µg/m <sup>3</sup> ) <b>Y-axis</b>		
1	75.0		137.0		
2	67.0			124.0	
3	55.0			102.0	
Average	65.7		121.0		
By Linear Regr Slope , mw = Correlation co			cept, bw =	5.6513	
	Se	et Correlation Fa	actor		
	ncentration by High Volume Sampler	$(\mu g/m^3)$	121.0		
Particaulate Cor	ncentration by Dust Meter ( $\mu g/m^3$ )		65.7		
Measureing time	e, (min)			60.0	
Set Correlation I	Factor, SCF				
SCF = [K=Hig	h Volume Sampler / Dust Meter, (μ	.g/m3) ]	1.8		

In-house method in according to the instruction manual:

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

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

Calibrated by:

L

len dag Approved by: Project Manager (Henry Leung)

Technical Officer (Wong Shing Kwai)



### **Certificate of Calibration**

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

Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	30-Mar-24
Model No.:	LD-5R				
Serial No.:	8Y2373				
Equipment No.:	SA-01-05	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-03	Before Sensitiv	vity Adjustment	657	
Tisch Calibratio	on Orifice No.: <u>3864</u>	After Sensitivit	y Adjustment	657	
	Ca	libration of 1 hr	TSP		
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (µg/ <b>X-axis</b>	′m3)	Mass concentration (µg/m <sup>3</sup> ) <b>Y-axis</b>		
1	75.0		137.0		
2	65.0			118.0	
3	55.0		100.0		
Average	65.0			118.3	
By Linear Reg Slope , mw = Correlation c	ression of Y on X  oefficient* =0.9999		ept, bw =	-1.9167	
	Se	et Correlation Fa	ictor		
Particaulate Concentration by High Volume Sampler (µg/m <sup>3</sup> )			118.3		
Particaulate Concentration by Dust Meter ( $\mu g/m^3$ )			65.0		
Measureing time, (min)				60.0	
Set Correlation	Factor, SCF				
SCF = [ K=Hig	h Volume Sampler / Dust Meter, (μ	.g/m3) ]	1.8		

In-house method in according to the instruction manual:

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

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

Calibrated by:

Approved by: len thay

Technical Officer (Wong Shing Kwai)

Project Manager (Henry Leung)



### **Certificate of Calibration**

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

Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	30-Mar-24
Model No.:	LD-5R				
Serial No.:	972777				
Equipment No.:	SA-01-06	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-03	Before Sensiti	vity Adjustment	645	
Tisch Calibratio	on Orifice No.: 3864	After Sensitivi	ity Adjustment	645	
	Са	alibration of 1 h	r TSP		
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (µg/ X-axis	′m3)	Mass concentration (µg/m <sup>3</sup> ) <b>Y-axis</b>		
1	76.0		140.0		
2	66.0		121.0		
3	55.0			101.0	
Average	65.7		120.7		
•	ression of Y on X				
Slope, mw =	1.8565	Intero	cept, bw =	-1.2432	
Correlation co	coefficient* = 0.9999	)			
	C.	t Comolotion E			
D. diamlata Car		et Correlation F	actor	120.7	
Particaulate Concentration by High Volume Sampler ( $\mu g/m^3$ )			120.7		
	ncentration by Dust Meter ( $\mu g/m^3$ )		65.7		
Measureing time				60.0	
Set Correlation		-/	10		
SCF = [K=Hig]	gh Volume Sampler / Dust Meter, (μ	g/mɔ) j	1.8	,	

In-house method in according to the instruction manual:

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

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

Calibrated by:

Approved by: Project Manager (Henry Leung)

Technical Officer (Wong Shing Kwai)



### **Certificate of Calibration**

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

Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	30-Mar-24
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	735 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	735 CPM	
	Cal	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	2
Point	Mass Concentration (µg/m3) <b>X-axis</b>		Mass concentration (µg/m <sup>3</sup> ) <b>Y-axis</b>		
1	73.0		140.0		
2	63.0			122.0	
3	53.0			101.0	
Average	63.0			121.0	
-			cept, bw =	-1.8500	
	Set	t Correlation F	actor		
Particaulate Concentration by High Volume Sampler ( $\mu$ g/m <sup>3</sup> )			121.0		
Particaulate Con	centration by Dust Meter ( $\mu g/m^3$ )		63.0		
Measureing time	, (min)		60.0		

Set Correlation Factor, SCF

SCF = [ K=High Volume Sampler / Dust Meter, (µg/m3) ]

In-house method in according to the instruction manual:

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

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

Calibrated by:

Approved by: len they Project Manager (Henry Leung)

Technical Officer (Wong Shing Kwai)

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### **Certificate of Calibration**

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

Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ration Record	30-Mar-24
Model No.:	LD-5R				
Serial No.:	972780				
Equipment No.:	SA-01-09	Sensitivity	0.001 mg/m3	-	
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	739 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	739 CPM	
	Cal	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (µg/1 X-axis	m3)	Mass concentration (µg/m <sup>3</sup> ) <b>Y-axis</b>		$(g/m^3)$
1	75.0		141.0		
2	65.0			121.0	
3	54.0			100.0	
Average	64.7			120.7	
	ression of Y on X 		cept, bw =	-5.5408	
	Set	t Correlation F	actor		
	centration by High Volume Sampler (	$\mu g/m^3$ )	120.7		
	centration by Dust Meter ( $\mu g/m^3$ )		64.7		
Measureing time	2, (min)		60.0		

Set Correlation Factor, SCF

SCF = [ K=High Volume Sampler / Dust Meter, (µg/m3) ]

In-house method in according to the instruction manual:

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

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

Calibrated by:

Technical Officer (Wong Shing Kwai)

Approved by: Project Manager (Henry Leung

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### **Certificate of Calibration**

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

Description:	Digital Dust Indicator		Date of Calibration	30-Jan-24	
Manufacturer:	Sibata Scientific Technology LTD.	Validity of	Calibration Record	30-Mar-24	
Model No.:	LD-5R				
Serial No.:	972781				
Equipment No.:	SA-01-10	Sensitivity 0.001 mg/	m3		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensitivity Adjustme	ent 734 CPM		
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivity Adjustmer	t 734 CPM		
	Ca	libration of 1 hr TSP			
Calibration	Laser Dust Monitor		HVS		
Point	Mass Concentration (µg/ <b>X-axis</b>	m3)	Mass concentration (μg/m <sup>3</sup> ) <b>Y-axis</b>		
1	82.0		134.0		
2	72.0		116.0		
3	62.0		100.0		
Average	72.0		116.7		
By Linear Regr Slope , mw = Correlation co		Intercept, bw =	-5.7333	·	
	Se	t Correlation Factor			
Particaulate Con	centration by High Volume Sampler (	$(\mu g/m^3)$	116.7		
Particaulate Con	centration by Dust Meter (µg/m <sup>3</sup> )		72.0		
Measureing time	e, (min)		60.0		
Set Correlation I	Factor . SCF				

SCF = [ K=High Volume Sampler / Dust Meter, (µg/m3) ]

In-house method in according to the instruction manual:

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

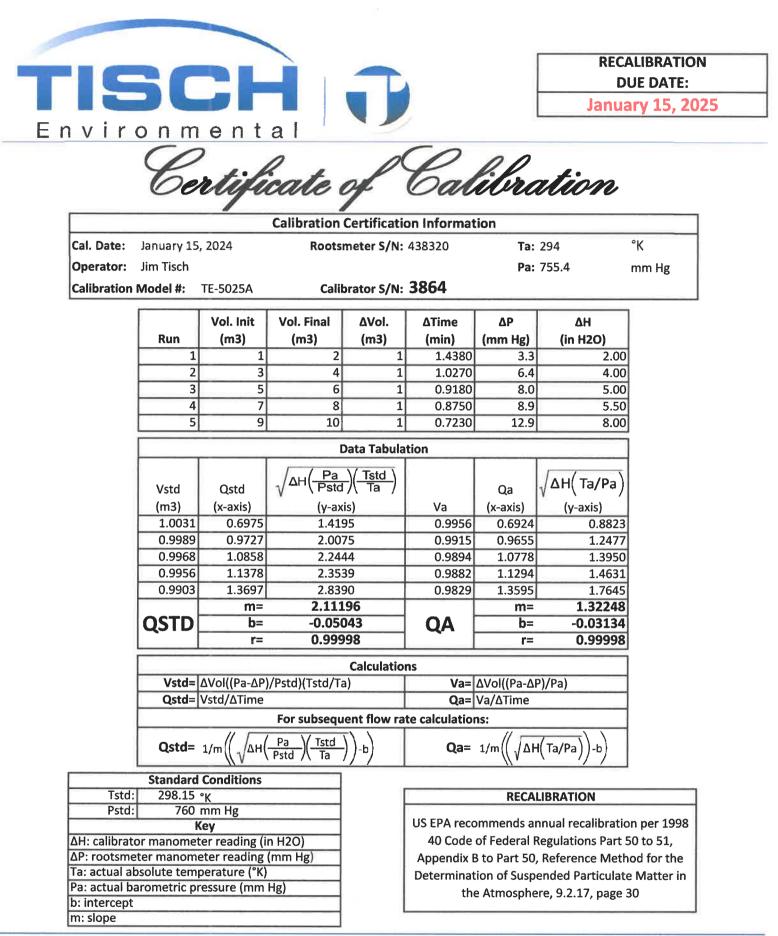
Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:

Approved by: leng thay Project Manager (Henry Leung)

Technical Officer (Wong Shing Kwai)

1.6



Tisch Environmental, Inc. 145 South Miami Avenue

Village of Cleves, OH 45002

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

# CIN@TECH 🤳

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

Description:	Yau Lai Estate, Bik Lai House
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 Di	rection (°)	Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

**Test Specification:** 

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

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

# CIN@TECH 🤳

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

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

#### 1. Performance check of Wind Speed

Wind 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

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.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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

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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.

- End of report -

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Report No. : 00430 Issue Date : 08 Sep 2023 : HP00304 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-12-02 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 570187 Microphone No. 590079

Date Received	: 06 Sep 2023	
Test Period	: 07 Sep 2023 to 07 Sep 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.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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Issue Date : 08 Sep 2023

Report No.:00430Application No.:HP00304

# **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.

- End of report -

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.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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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.

- End of report -

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.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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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.

- End of report -

Report No.

Test Result

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: 00393



: 02 Aug 2023

Issue Date

Application No. : HP00275 **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-13-01 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001608 : 28 Jul 2023 Date Received Test Period : 31 Jul 2023 to 31 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%

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

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

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Lee Wai Kit Laboratory Manager

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Issue Date : 02 Aug 2023

Report No.:00393Application No.:HP00275

# **Certificate of Calibration**

Measuring equipment

Sound Calibrator	
Brüel & Kjær	
TYPE 4231	
2326353	
N-02-01	
Sound Meter	
SVANTEK	
SVAN 977	
92677	
10352	
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	114.2	+ 0.2	± 0.5

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

- End of report -

Report No.

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: 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

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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

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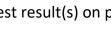


: 00389 Issue Date : 20 Jul 2023 Report No. Application No. : HP00262 **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Sound Level Calibrator. Equipment No.: : 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.

> For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager



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Issue Date : 20 Jul 2023

Report No.:00389Application No.:HP00262

# **<u>Certificate of Calibration</u>**

Measuring equipment

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

- End of report -

APPENDIX C WEATHER INFORMATION

Date	Mean Air Temperature (°C) <sup>1</sup>	Mean Relative Humidity	Precipitation (mm) <sup>3</sup>
		$(\%)^2$	
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 C - Weather Conditions During Impact Monitoring Period

(Reporting Month:February 2024)

**Remarks:** 

Source - Hong Kong Observatory

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

February 2024			
	Wind Speed a	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
	11:00 AM	ESE	1.3
1 Feb 2024	+ +		1.3
1 Feb 2024	12:00 PM	ESE	
1 Feb 2024	1:00 PM	E	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
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	2.4
2 Feb 2024	6:00 PM	W	2.1
2 Feb 2024 2 Feb 2024			
	7:00 PM 8:00 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 Fen 20/4	7.00 AW	73	U./

February 2024					
D-4-	Wind Speed and Directions				
Date		Direction	Wind Speed m-s		
3 Feb 2024	9:00 AM	S	0.9		
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		
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	0.4		
5 Feb 2024	2:00 PM 3:00 PM		0.3		
5 Feb 2024 5 Feb 2024	4:00 PM	SSW	1.0		
J I CU 2024		<b>NN CC</b>	1.0		

February 2024			
D (	-	and Directions	W. I.G. I
Date	Time	Direction	Wind Speed m-s
5 Feb 2024	6:00 PM	S	0.7
5 Feb 2024	7:00 PM	SE	0.3
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 Feb 2024	6:00 PM	WNW	1.7
	7:00 PM	NW W	1.9
6 Feb 2024	8:00 PM		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
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	1.5
7 Feb 2024 7 Feb 2024	4:00 PM	S	2.1
		SSE	
7 Feb 2024	5:00 PM		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 5 1 2024	11.00  DM	S	2.0
7 Feb 2024	11:00 PM		-
8 Feb 2024	12:00 AM	SW	2.1
			-

February 2024					
<b>.</b>	Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s		
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		
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	1.9		
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		
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 10 Feb 2024	7:00 AM	S	1.5		
	8:00 AM	S S	2.1		
10 Eab 2024		<b>د</b>	2.1		
10 Feb 2024		c	2.1		
10 Feb 2024 10 Feb 2024 10 Feb 2024	9:00 AM 10:00 AM	S SSW	2.1		

February 2024			
	Wind Speed a	and Directions	
Date	Time	Direction	Wind Speed m-s
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
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	SSE	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
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	0.0
12 Feb 2024	3:00 AM	S	0.0
12 Feb 2024	4:00 AM	S	0.0
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

February 2024			
	Wind Speed	and Directions	
Date	Time	Direction	Wind Speed m-s
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
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	0.2
13 Feb 2024	9:00 AM	S	0.9
		<u> </u>	
13 Feb 2024	10:00 AM	<u> </u>	0.6
13 Feb 2024	11:00 AM		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
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		SSE	0.1
15100 2024	1:00 AM		
15 Feb 2024		S	0.5
15 Feb 2024	2:00 AM	S	
			0.5 0.3 0.6

February 2024					
<b>.</b> .	Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s		
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		
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	SSE	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		S			
	7:00 AM	S	1.9		
16 Feb 2024	8:00 AM		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		
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			1.8		
17 Feb 2024	10:00 AM	WSW WSW	1.8		
	11:00 AM	WSW			
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		

February 2024				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
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	
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	0.0	
			0.2	
18 Feb 2024	7:00 AM	SSW SE	0.1	
18 Feb 2024	8:00 AM			
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	E	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	
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	E	0.7	
19 Feb 2024	11:00 AM	E	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	E	0.9	
19 Feb 2024	4:00 PM	E SSE	0.8	
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	

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

February 2024			
D-4-		and Directions	We d Grand and
Date	Time	Direction	Wind Speed m-s
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
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	E	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
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

February 2024					
<b>D</b> (	Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s		
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		
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		
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	SSE	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	0.3		
26 Feb 2024	9:00 PM	SSE	0.4		
26 Feb 2024 26 Feb 2024		SSE S	0.3		
	10:00 PM	SSW	1.0		
26 Feb 2024	11:00 PM 12:00 AM				
27 Feb 2024 27 Feb 2024	12:00 AM 1:00 AM	SSW	0.8		
77 FED 7074	1.00 AM	S	1.5		

February 2024										
		and Directions								
Date	Time	Direction	Wind Speed m-s							
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							
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								
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 D ENVIRONMENTAL MONITORING SCHEDULES

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

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

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

#### Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP AMI - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4<sup>(1)</sup> - Sitting-out Area at Cha Kwo Ling Village AM4(B)<sub>2</sub>) - Flat 103 Cha Kwo Ling Village

#### Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong

### 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			
					21110101			
3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar		
	1-hr TSP X3				1-hr TSP X3			
	Noise				1-111 1 SF A3			
	TOISE			24-hrs TSP				
10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar		
				1-hr TSP X3				
				Noise				
			24-hrs TSP					
17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar		
			1-hr TSP X3					
		241 500	Noise					
		24-hrs TSP						
24-Mar	25-Mar	` 26-Mar	27-Mar	28-Mar	29-Mar	30-Mar		
		1-hr TSP X3		1-hr TSP X3				
		Noise		1-11 151 75				
	24-hrs TSP		24-hrs TSP					
31-Mar								
51-Mar								
			other cefety concerns at					

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

### Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP AMI - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4<sup>(1)</sup> - Sitting-out Area at Cha Kwo Ling Village AM4(B)(2) - Flat 103 Cha Kwo Ling Village

### **Noise Monitoring Station**

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong

## 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-hrs TSP	1-hr TSP X3 Noise			
7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr
	24-hrs TSP	1-hr TSP X3 Noise			24-hrs TSP	1-hr TSP X3
14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr
				24-hrs TSP	1-hr TSP X3 Noise	
21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr
			24-hrs TSP	1-hr TSP X3 Noise		
28-Apr	29-Apr	` 30-Apr				
		24-hrs TSP				

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

### Air Quality Monitoring Station

*1-hr TSP / 24-hrs TSP* AM1 - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4<sup>(1)</sup> - Sitting-out Area at Cha Kwo Ling Village AM4(B)(2) - Flat 103 Cha Kwo Ling Village

### Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong
CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong
CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong
CM4 - Tin Hau Temple, Cha Kwo Ling
CM5 - CCC Kei Faat Primary School, Yau Tong

## 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
			1-hr TSP X3 Noise			
5-May	6-May	7-May	8-May	9-May	10-May	11-May
		24-hrs TSP	1-hr TSP X3 Noise			
12-May	13-May	14-May	15-May	16-May	17-May	18-May
	24-hrs TSP	1-hr TSP X3 Noise				24-hrs TSP
19-May	20-May	21-May	22-May	23-May	24-May	25-May
	1-hr TSP X3 Noise				24-hrs TSP	1-hr TSP X3
26-May	27-May	` 28-May	29-May	30-May	31-May	
				24-hrs TSP	1-hr TSP X3 Noise	

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

### Air Quality Monitoring Station

*1-hr TSP / 24-hrs TSP* AM1 - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4<sup>(1)</sup> - Sitting-out Area at Cha Kwo Ling Village AM4(B)(2) - Flat 103 Cha Kwo Ling Village

### Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

# Appendix E - 1-hour TSP Monitoring Results

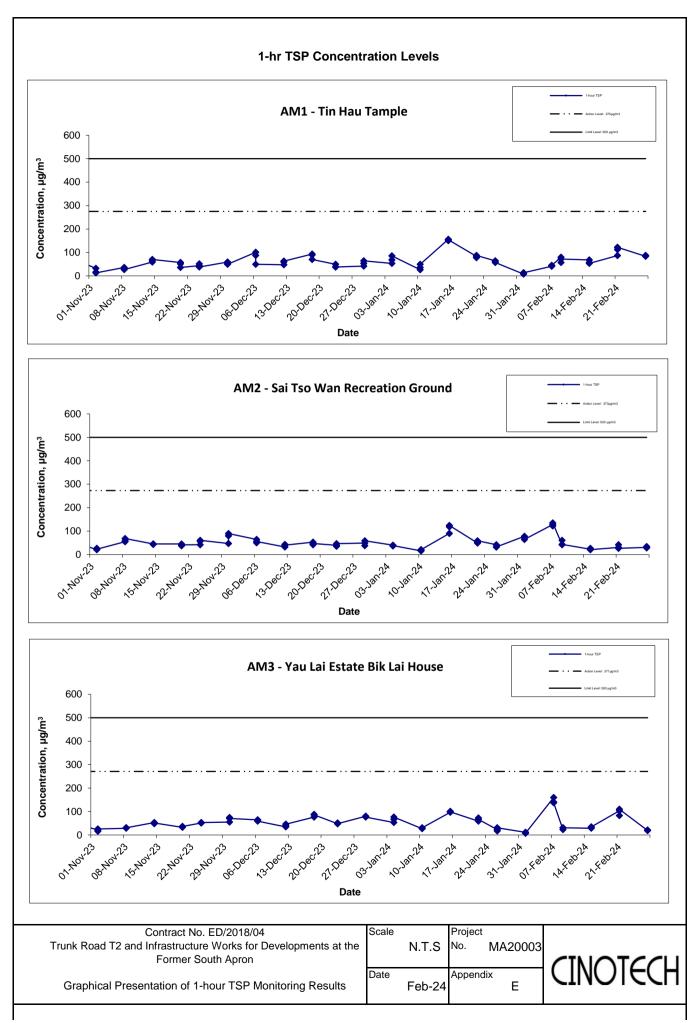
Location AM1 -	Tin Hau Ten	nple	
Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )
1-Feb-24	11:16	Fine	7.6
1-Feb-24	12:16	Fine	9.5
1-Feb-24	13:16	Fine	13.3
7-Feb-24	13:00	Fine	41.4
7-Feb-24	14:00	Fine	43.2
7-Feb-24	15:00	Fine	45.0
9-Feb-24	9:00	Sunny	79.8
9-Feb-24	10:00	Sunny	57.0
9-Feb-24	11:00	Sunny	72.2
15-Feb-24	11:17	Sunny	68.4
15-Feb-24	12:17	Sunny	57.0
15-Feb-24	13:17	Sunny	53.2
21-Feb-24	15:15	Fine	86.6
21-Feb-24	16:15	Fine	112.7
21-Feb-24	17:15	Fine	122.0
27-Feb-24	10:33	Fine	83.6
27-Feb-24	11:33	Fine	87.4
27-Feb-24	12:33	Fine	85.5
		Average	62.5
		Maximum	122.0
		Minimum	7.6

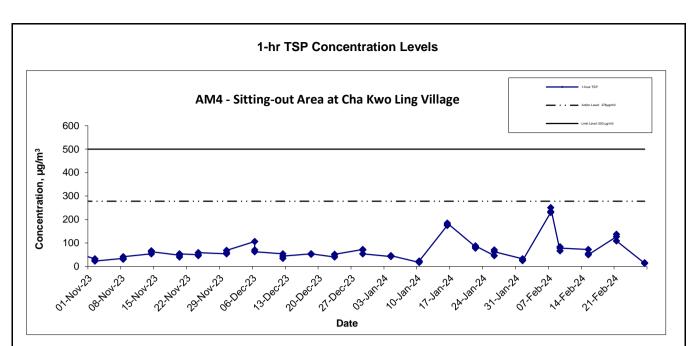
Location AM2 -	Sai Tso Wai	n Recreation Grou	nd
Date	Time	Weather	Particulate Concentration ( μg/m <sup>3</sup> )
1-Feb-24	9:00	Cloudy	77.9
1-Feb-24	10:00	Cloudy	72.2
1-Feb-24	11:00	Cloudy	64.6
7-Feb-24	15:00	Fine	127.8
7-Feb-24	16:00	Fine	122.4
7-Feb-24	17:00	Fine	135.0
9-Feb-24	10:00	Sunny	41.8
9-Feb-24	11:00	Sunny	60.8
9-Feb-24	12:00	Sunny	43.7
15-Feb-24	11:17	Sunny	22.8
15-Feb-24	12:17	Sunny	26.6
15-Feb-24	13:17	Sunny	20.9
21-Feb-24	9:00	Sunny	30.4
21-Feb-24	10:00	Sunny	41.8
21-Feb-24	11:00	Sunny	26.6
27-Feb-24	9:02	Cloudy	30.4
27-Feb-24	10:02	Cloudy	28.5
27-Feb-24	11:02	Cloudy	34.2
		Average	56.0
		Maximum	135.0
		Minimum	20.9

# Appendix E - 1-hour TSP Monitoring Results

Location AM3 -	Yau Lai Esta	ate Bik Lai House	
Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )
1-Feb-24	12:50	Sunny	11.4
1-Feb-24	13:50	Sunny	7.6
1-Feb-24	14:50	Sunny	7.6
7-Feb-24	13:00	Cloudy	159.6
7-Feb-24	14:00	Cloudy	140.6
7-Feb-24	15:00	Cloudy	136.8
9-Feb-24	11:35	Sunny	22.8
9-Feb-24	12:35	Sunny	30.4
9-Feb-24	13:35	Sunny	30.4
15-Feb-24	13:28	Sunny	28.5
15-Feb-24	14:28	Sunny	32.3
15-Feb-24	15:28	Sunny	34.2
21-Feb-24	9:00	Fine	103.2
21-Feb-24	10:00	Fine	82.7
21-Feb-24	11:00	Fine	109.4
27-Feb-24	11:49	Fine	19.0
27-Feb-24	12:49	Fine	20.9
27-Feb-24	13:49	Fine	19.0
		Average	55.4
		Maximum	159.6
		Minimum	7.6

Location AM4 -	Location AM4 - Sitting-out Area at Cha Kwo Ling Village									
Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )							
1-Feb-24	14:19	Sunny	32.3							
1-Feb-24	15:19	Sunny	26.6							
1-Feb-24	16:19	Sunny	24.7							
7-Feb-24	9:00	Cloudy	229.9							
7-Feb-24	10:00	Cloudy	233.7							
7-Feb-24	11:00	Cloudy	250.8							
9-Feb-24	9:00	Sunny	66.5							
9-Feb-24	10:00	Sunny	83.6							
9-Feb-24	11:00	Sunny	77.9							
15-Feb-24	9:10	Sunny	72.2							
15-Feb-24	10:10	Sunny	55.1							
15-Feb-24	11:10	Sunny	49.4							
21-Feb-24	13:00	Fine	126.5							
21-Feb-24	14:00	Fine	137.2							
21-Feb-24	15:00	Fine	108.9							
27-Feb-24	12:50	Fine	13.3							
27-Feb-24	13:50	Fine	15.2							
27-Feb-24	14:50	Fine	15.2							
<u>-</u>		Average	89.9							
		Maximum	250.8							
		Minimum	13.3							





Notes:

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

Trunk Road T2 and Infrastructu	b. ED/2018/04 re Works for Developments at the outh Apron	Scale		Project No.	MA20003	
Graphical Presentation of 1	hour TSP Monitoring Results	Date	Feb-24	Append	lix E	

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

## Appendix F - 24-hour TSP Monitoring Results

Location AM1 - Tin Hau Temple

Start Date	Start Date Weather Filter Weight		Weather Filter Weight (g) Particulate Elapse Time		Sampling Flow Rate (m <sup>3</sup> /m		te (m <sup>3</sup> /min.)	Av. flow	Total vol.	Conc.		
otan Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )
6-Feb-24	Cloudy	3.4104	3.4831	0.0727	12930.6	12954.6	24.0	1.23	1.23	1.23	1772.6	41.0
9-Feb-24	Fine	3.3323	3.3550	0.0227	12954.6	12978.6	24.0	1.24	1.24	1.24	1788.3	12.7
15-Feb-24	Fine	3.3677	3.4232	0.0555	12978.6	13002.6	24.0	1.21	1.22	1.22	1752.0	31.7
20-Feb-24	Sunny	3.3350	3.4230	0.0880	13002.6	13026.6	24.0	1.21	1.21	1.21	1742.3	50.5
26-Feb-24	Fine	3.3574	3.4113	0.0539	13026.6	13050.6	24.0	1.22	1.22	1.22	1761.1	30.6
											Min	12.7
											Max	50.5
											Average	33.3

### Location AM2 - Sai Tso Wan Recreation Ground

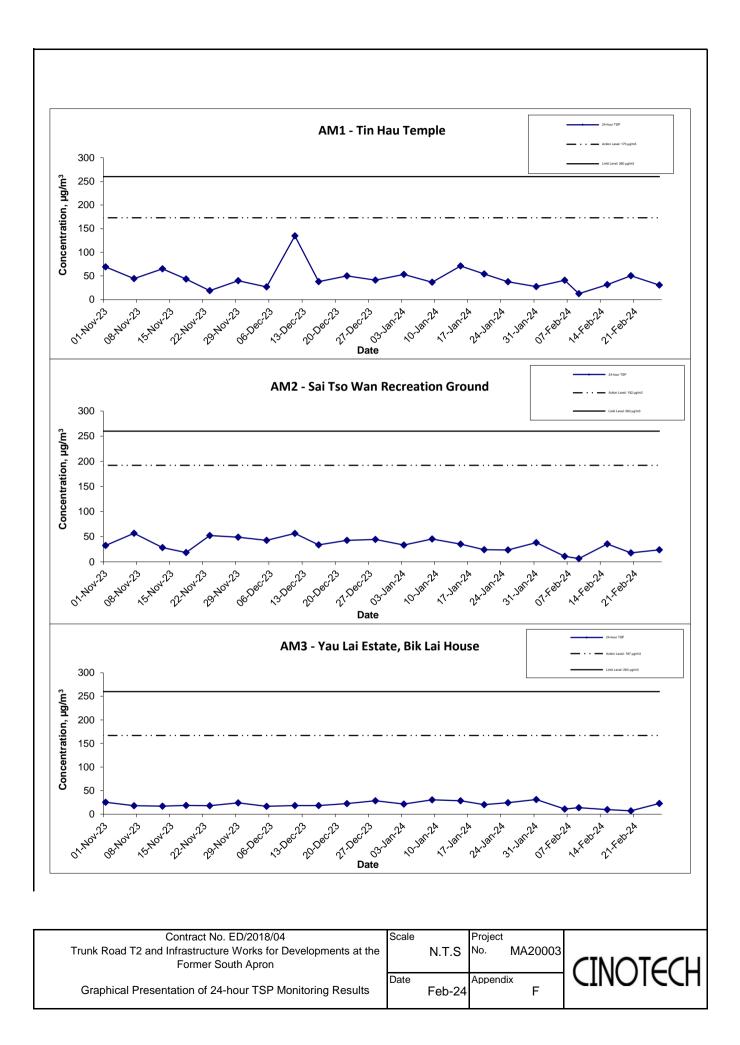
Start Date	Weather	eather Filter Weight (g)		Particulate	Elaps	e Time	Sampling	Flow Rat	te (m <sup>3</sup> /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )
6-Feb-24	Fine	3.3580	3.3773	0.0193	34025.1	34049.1	24.0	1.23	1.23	1.23	1771.1	10.9
9-Feb-24	Fine	3.3556	3.3669	0.0113	34049.1	34073.1	24.0	1.24	1.24	1.24	1787.6	6.3
15-Feb-24	Sunny	3.3394	3.4013	0.0619	34073.1	34097.1	24.0	1.21	1.22	1.22	1751.7	35.3
20-Feb-24	Sunny	3.3430	3.3739	0.0309	34097.1	34121.1	24.0	1.21	1.21	1.21	1741.3	17.7
26-Feb-24	Fine	3.3396	3.3813	0.0417	34143.3	34167.3	24.0	1.22	1.22	1.22	1761.5	23.7
											Min	6.3
											Max	35.3
											Average	18.8

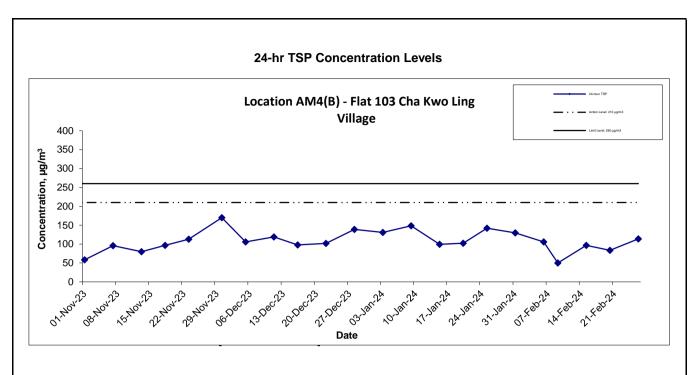
### Location AM3 - Yau Lai Estate, Bik Lai House

Start Date	Weather	Filter Weight (g)		Particulate	Elaps	e Time	Sampling	Flow Rat	te (m <sup>3</sup> /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )
6-Feb-24	Cloudy	3.3280	3.3473	0.0193	8253.8	8277.8	24.0	1.23	1.23	1.23	1770.5	10.9
9-Feb-24	Fine	3.3512	3.3761	0.0249	8277.8	8301.8	24.0	1.24	1.24	1.24	1787.1	13.9
15-Feb-24	Sunny	3.3176	3.3344	0.0168	8301.8	8325.8	24.0	1.21	1.22	1.22	1751.2	9.6
20-Feb-24	Fine	3.3390	3.3516	0.0126	8325.8	8349.8	24.0	1.21	1.21	1.21	1740.4	7.2
26-Feb-24	Fine	3.3460	3.3859	0.0399	8349.8	8373.8	24.0	1.22	1.22	1.22	1761.4	22.7
											Min	7.2
											Max	22.7
											Average	12.9

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

Start Date	Weather	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rat	te (m <sup>3</sup> /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )
6-Feb-24	Cloudy	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	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	3.4088	3.5769	0.1681	19726.6	19750.6	24.0	1.21	1.21	1.21	1741.0	96.6
20-Feb-24	Fine	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	3.3447	3.5441	0.1994	19774.6	19798.6	24.0	1.21	1.22	1.22	1750.2	113.9
											Min	49.9
											Max	113.9
											Average	90.0





Notes:

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

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

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

# Appendix G - Noise Monitoring Results

## (0700-1900 hrs on Normal Weekdays)

Location CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong												
		Weather	Unit: dB (A) (30-min)									
Date	Time		Meas	sured Noise	Level	Baseline Level	Construction Noise Level					
2 410			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>					
1 Feb 2024	12:10	Sunny	66.1	67.4	64.4	65.5	57					
7 Feb 2024	10:40	Cloudy	67.9	69.3	66.2	65.5	64					
15 Feb 2024	15:41	Drizzle	67.5	68.9	65.5	65.5	63					
21 Feb 2024	9:11	Sunny	68.2	69.6	66.4	65.5	65					
27 Feb 2024	12:09	Sunny	70.0	71.2	68.4	65.5	68					

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

			Unit: dB (A) (30-min)									
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level					
Duio	Time	Weddilor	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>					
1 Feb 2024	16:11	Sunny	67.5	68.9	65.7	63.6	65					
7 Feb 2024	13:55	Cloudy	70.6	72.6	68.1	63.6	70					
15 Feb 2024	13:00	Sunny	67.3	68.5	65.4	63.6	65					
21 Feb 2024	10:00	Fine	67.6	69.3	65.5	63.6	65					
27 Feb 2024	12:53	Sunny	69.5	70.7	67.9	63.6	68					

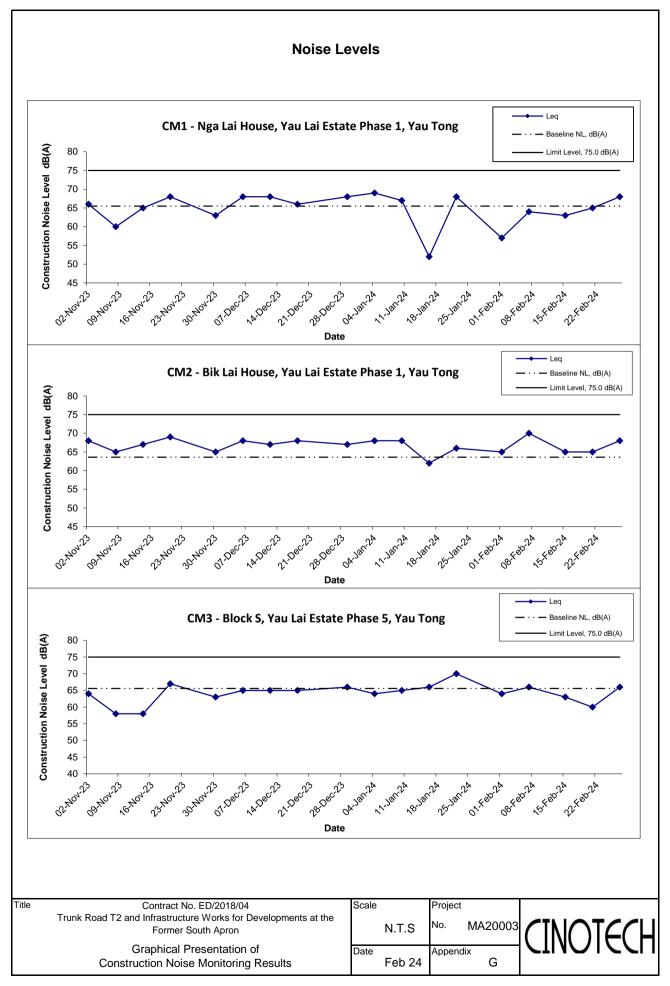
## Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

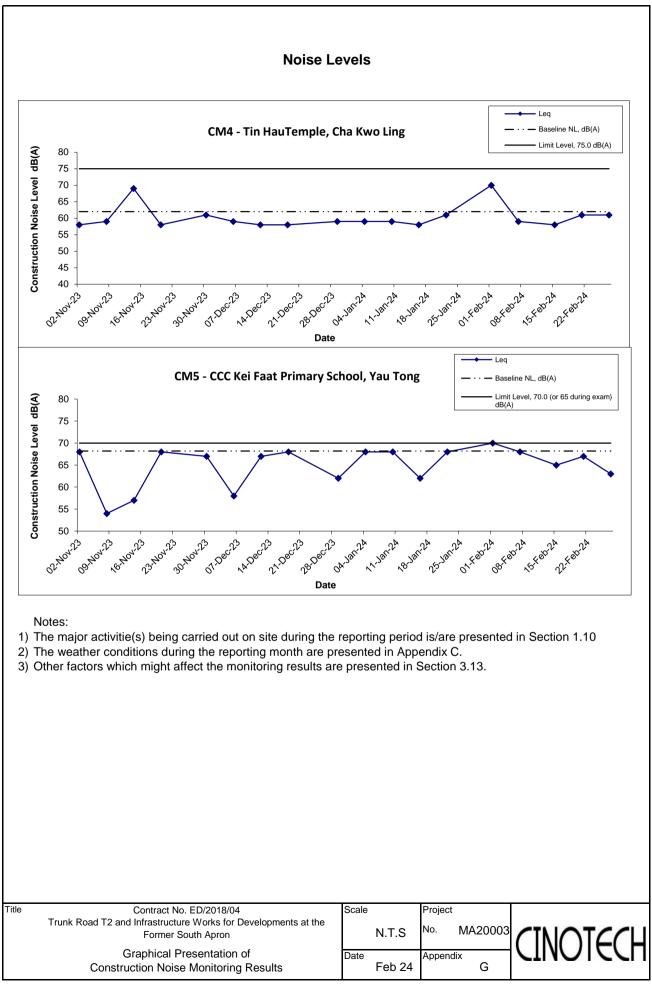
			Unit: dB (A) (30-min)										
Date	Time	Weather	Meas	sured Noise I	Level	Baseline Level	Construction Noise Level						
Date	Time	veanci	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>						
1 Feb 2024	15:12	Fine	64.1	65.6	62.4	65.6	64 Measured ≦ Baseline						
7 Feb 2024	15:55	Cloudy	68.8	71.9	65.1	65.6	66						
15 Feb 2024	14:14	Sunny	67.5	69.0	65.6	65.6	63						
21 Feb 2024	11:35	Fine	66.6	67.9	65.2	65.6	60						
27 Feb 2024	13:39	Sunny	68.6 70.4		66.4	65.6	66						

## Location CM4 - Tin Hau Temple, Cha Kwo Ling

			Unit: dB (A) (30-min)									
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level					
Date	Time	weather										
			L <sub>eq</sub>	L <sub>10</sub>	L 90	L <sub>eq</sub>	L <sub>eq</sub>					
1 Feb 2024	11:10	Fine	70.9	75.2	68.3	62.0	70					
7 Feb 2024	9:21	Cloudy	59.3	62.2	53.9	62.0	59 Measured $\leq$ Baseline					
15 Feb 2024	12:34	Sunny	57.8	62.1	50.0	62.0	58 Measured ≦ Baseline					
21 Feb 2024	15:15	Fine	60.8	63.5	55.8	62.0	61 Measured $\leq$ Baseline					
27 Feb 2024	15:28	Sunny	61.4	63.7	57.0	62.0	61 Measured ≦ Baseline					

Location CM5 -	CCC Kei Fa	aat Primary Se	chool, Yau T	ong									
				Unit: dB (A) (30-min)									
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level						
2410			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>						
1 Feb 2024	16:30	Sunny	72.1	72.3	71.8	68.2	70						
7 Feb 2024	14:40	Cloudy	68.2	70.0	66.0	68.2	68 Measured ≦ Baseline						
15 Feb 2024	14:34	Sunny	65.2	67.7	61.5	68.2	65 Measured ≦ Baseline						
21 Feb 2024	11:00	Fine	67.1	69.6	63.9	68.2	67 Measured $\leq$ Baseline						
27 Feb 2024	14:36	Sunny	69.4	71.7	66.0	68.2	63						





APPENDIX H WASTE GENERATION IN THE REPORTING MONTH



Name of Department: CEDD

Monthly Summary Waste Flow Table for 2024 (CKL)

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

	Actu	al Quantities	of Inert C&D	) Materials G	enerated Mo	nthly	Actual C	Quantities of	C&D Wastes	s Generated	Monthly
	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete		d. Reused in Other Projects		f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging		j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
January	2.027	0.000	0.000	0.000	2.027	0.000	0.000	0.000	0.000	19.000	0.099
February	3.991	0.000	0.000	0.000	3.991	0.000	0.000	0.000	0.000	0.000	0.037
March											
April											
May											
June											
Sub-total	6.017	0.000	0.000	0.000	6.017	0.000	0.000	0.000	0.000	19.000	0.137
July											
August											
September											
October											
November											
December											
Total	6.017	0.000	0.000	0.000	6.017	0.000	0.000	0.000	0.000	19.000	0.137

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	ntities of Inert C&	D Materials Genera	•		Actual Quantities of C&D Waste Generated Monthly							
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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
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.

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.	
	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.:240125), all the items have been rectified.	

	Name	Signature	Date
Recorded by	Eric Hung	Later-	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 240208 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	
	• 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.:240201), all the items have been rectified.	

Name		Signature	Date
Recorded by	Alex Ng	Ali	8 February 2024
Checked by	Karina Chan	Julle	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

Inspection information		
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	
	• 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.:240208), all the items have been rectified.	

	Name	Signature	Date
Recorded by	Eric Hung	UMA-	15 February 2024
Checked by	Karina Chan	Zelle	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 Checklist Reference Number 240222

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	
240222-R1	• 3-sides barriers should be provided when conducting cement mixing activities.	C14
	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	Ali	22 February 2024
Checked by	Karina Chan	Julle	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 information	
Checklist Reference Number	240229
Date	29 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	
240229-R1	• Accumulation of general refuses were observed at the site entrance.	Eli
	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.:240222), all the items have been rectified.	

	Name	Signature	Date
Recorded by	Alex Ng	Ali	29 February 2024
Checked by	Karina Chan	Zalle	1 March 2024

APPENDIX J ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

#### App J - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

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

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Air Quality						
\$3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	To minimize the dust impact	Contractor	All Active Work Sites	Construction phase	APCO
\$3.8.1	Enclosing the unloading process at barging point by a 3-sided screen with top tipping hall / mixing area in Work Area A, provision of water spraying and flexible dust curtains	To minimize the dust impact	Contractor	Barging Points	Construction phase	APCO
\$3.8.7	<ul> <li>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.</li> <li>Use of frequent watering for particularly dusty construction areas and areas close to ASRs</li> <li>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.</li> <li>Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> <li>Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.</li> <li>Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.</li> <li>Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit.</li> <li>Imposition of speed controls for vehicles on site haul roads.</li> <li>Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs</li> <li>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.</li> </ul>	To minimize the dust impact	Contractor	All Construction Work Sites	Construction phase	APCO and Air Pollution Control (Construction Dust) Regulation
/	Emission from Vehicles and Plants <ul> <li>All vehicles shall be shut down in intermittent use.</li> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke.</li> <li>All diesel fuelled construction plant within the works areas shall be powered by ultra low sulphur diesel fuel (ULSD)</li> </ul>	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	АРСО

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	Reduce air pollution emission from construction vehicles and plants				APCO
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
S4.9	<ul> <li>Good Site Practice</li> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program</li> <li>Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.</li> <li>Mobile plant, if any, should be sited as far away from NSRs as possible.</li> <li>Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.</li> <li>Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.</li> <li>Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>	To minimize construction noise impact arising from the Project at the affected NSRs	Project Proponent	Work sites	Construction Period	EIAO-TM, NCO
S4.9	Scheduling of Construction Works during School Examination Period	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work site near school	Construction phase	EIAO-TM, NCO
Water Quality Impa	ct (Construction Phase)					
\$5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m <sup>3</sup> , with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
\$5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
85.8.2	Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum daily rate of 3,000m <sup>3</sup> (i.e. 1,000 m <sup>3</sup> per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
Silt Curtain Deployment Plan	<ul> <li>Silt curtains should be deployed properly to surround the works area.</li> <li>Maintenance of silt curtain should be provided.</li> <li>Sufficient stock of silt curtain should be provided on site.</li> </ul>	Control potential impacts from marine woroks	Contractor	NE/2015/01	Construction stage	EIAO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
	Other good site practices should be undertaken during filling operations include:					
\$5.8.3	<ul> <li>all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea;</li> <li>floating single silt curtain shall be employed for all marine works;</li> <li>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;</li> <li>all hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;</li> <li>adequate freeboard shall be cleaned from the decks and exposed fittings of barges before the vessel is moved;</li> <li>adading of barges and hoppers should be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be filed to a level that will cause the overflow of materials or polluted water during loading or transportation;</li> <li>any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes;</li> <li>construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and operation of the situ curtain.</li> </ul>	Control potential impacts from filling activities and marine-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
\$5.8.4	Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site oractices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR S5.6.1	<ul> <li>To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented: <ul> <li>Before carrying out any dredging and underwater filling works, a temporary barrier shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall)</li> <li>The temporary barrier fully enclosing the dredging and underwater filling works site shall not be removed before completion of all dredging and underwater filling works.</li> <li>Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier is.</li> <li>Silt curtains shall be deployed for the installation and removal of the temporary barrier and at the double water gates marine access opening during its operation.</li> </ul> </li> </ul>	Control potential impacts from dredging and filling works for Reclamation for Road P2	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.5	It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.6	Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM-DSS

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85.8.7	Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff comples with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ under the TM-DSS.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1.94, EIAOTM, WPCO, TM-DSS
S5.8.8 S5.8.8 S5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: use of sediment traps; and adequate maintenance of drainage systems to prevent flooding and overflow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.9	Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.10	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.11	Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m <sup>3</sup> capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.12	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.13	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.14	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50m <sup>3</sup> should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.15	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of sitty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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\$5.8.17	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.18	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.19	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.20	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There shall be no direct discharge of effluent from the site into the sea.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.21	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.23	Minimum distances of 100m shall be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes during construction and operational phases	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, TMDSS
\$5.8.24	Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction, and groundwater seepage pumped out of unnels or caverus under construction should be discharged into storm drains after the removal of silt in silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
85.8.25 - 85.8.27 & Table 5.18	Grouting would be adopted as measure to reduce the groundwater inflow into the tunnel. During the tunnel excavation, the inflow rate of groundwater into the tunnel will he measured during the excavation. The groundwater levels above the tunnel will also be monitored by piezometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater drawdown exceeds the required limit, pre-excavation grouting will be required to reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/foaming agents which would be entrained to the groundwater should be biodegradable and non-toxic throughout the tunnel construction. Potential groundwater quality impact would be minimal as the used material is non-toxic and biodegradable. No adverse groundwater quality would therefore be expected. Prescriptive measures in the form of an Action Plan with pre-emptive and re-active to preserve the groundwater levels at all times during the unnel construction are set out in Table 5.18.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, Buildings Ordinance
\$5.8.28	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phas	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.29 - \$5.8.31	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum. To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an online standby pump of adequate capacity and with automatic alternating devices. Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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\$5.8.32	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and sitt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.33	Bentonite slurries used in diaphragm wall and borepile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.34	If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.35	Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.36	Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.37	Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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\$5.8.40	Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewer via grease traps capable of providing at least 20 minutes retention during peak flow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.41	Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptor with peak storm bypass.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.42	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.43	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable charges to the comparison of the one eithe course cuttern. American the construction is the comparison of the one setting.		CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.44	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.45	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
\$5.8.46	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
\$5.8.47	Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Control potential impacts from floating refuse and debris	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO,
Ecological Impact						
\$6.8.4	<ul> <li>Measures to Minimize Disturbance</li> <li>Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible.</li> <li>Hoarding or fencing should be erected around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase activities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works areas by site workers;</li> <li>Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities</li> </ul>	Minimize noise, human and traffic disturbance to terrestrial habitat and wildlife; and reduce dust generation	Design Team / Contractor	Land-based works are	Construction Phase	N/A

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\$6.8.5	Standard Good Site Practice       •         •       Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats.       •         •       Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works.       •         •       Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner.       •         •       General drainage arrangements should include sediment and oil traps to collect and control construction site run-off.       Contractor		Land-based works are	Construction Phase	N/A	
S6.8.6	<ul> <li>Open burning on works sites is illegal, and should be strictly prohibited.</li> <li>Measures should also be put into place so that litter, fuel and solvents do not enter the nearby watercourses.</li> </ul> Measure to Minimize Groundwater Inflow <ul> <li>The drained tunnel construction method with groundwater inflow control measures would generally be adopted.</li> <li>During the tunnel excavation, pre-excavation grouting could be adopted to reduce the groundwater inflow and ensure that the tunnel would meet the long term water tightness</li> </ul>	Minimize groundwater inflow	Contractor	Tunnel	Construction Phase	N/A
\$6.8.8	requirements. Measure to Minimize Impact on Corals Coral translocation • It is recommended to translocate the affected coral colonies, except the locally common <i>Oulastrea crispata</i> , within the reclamation area and bridge footprint to the other suitable locations as far as practicable. • The coral translocation should be conducted during the winter months (November- March) in order to avoid disturbance during their spawning period (i.e. July to October). • A detailed coral translocation plan with a description on the methodology for pretranslocation organized in the survey. translocation methodology, identification/proposal of coral recipient site, monitoring methodology for posttranslocation should be prepared during the detailed design stage. • The coral translocation plan should be subject to approval by relevant authorities (e.g. EPD and AFCD) before commencement of the coral translocation. All the translocation exercises should be conducted by experienced marine ecologist(s) who is/are approved by AFCD prior to commencement of coral translocation.	Minimize loss of coral	Design team, contractor, project operator	Within reclamation areas and pier footprint	Prior construction	N/A
	<ul> <li>A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the translocated coral communities</li> <li>Information gathered during each posttranslocation monitoring survey should include observations on the presence, survival, health condition and growth of the translocated coral colonies. These parameters should then be compared with the baseline results collected from the pre-translocation survey.</li> </ul>					

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\$6.8.9 \$6.8.10	Measure to Control Water Quality Impact           • Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.           • Diverting of the site runoff to silt trap facilities before discharging into storm drain;           • Proper waste and dumping management; and           • Standard good-site practice for land-based construction.	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	WQO
\$6.8.11	Compensation for Vegetation Loss <ul> <li>Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition.</li> </ul>	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A
Fisheries Impact						
\$7.7.3	Measure to Control Water Quality Impact <ul> <li>Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.</li> </ul>	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	WQO
Waste Management	(Construction Phase)					
\$8.6.3	<ul> <li>Good Site Practices and Waste Reduction Measures</li> <li>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;</li> <li>Training of site personnel in site cleanliness, proper waste management and chemical handling procedures;</li> <li>Provision of sufficient waste disposal points and regular collection of waste;</li> <li>Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and</li> <li>Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.</li> </ul>	To reduce waste management impacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.4	<ul> <li>Good Site Practices and Waste Reduction Measures (con't)</li> <li>Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> <li>Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce;</li> <li>Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and</li> <li>Phan and stock construction materials; and</li> <li>Phan and stock construction materials; and</li> </ul>	To achieve waste reduction	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.5	Good Site Practices and Waste Reduction Measures (con't) The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005

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\$8.6.6	Good Site Practices and Waste Reduction Measures (con't) <ul> <li>C&amp;D materials would be reused in the project and other local concurrent projects as far as possible.</li> </ul>	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
\$8.6.7	<ul> <li>Storage, Collection and Transportation of Waste</li> <li>Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include: <ul> <li>Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution;</li> <li>Maintain and clean storage areas routinely;</li> <li>Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and</li> <li>Different locations should be designated to stockpile each material to enhance reuse.</li> </ul> </li> </ul>	To minimize potential adverse environmental impacts arising from waste storage	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.8/ Waste Management Plan	<ul> <li>Storage, Collection and Transportation of Waste (con't) <ul> <li>Remove waste in timely manner;</li> <li>Waste collectors should only collect wastes prescribed by their permits;</li> <li>Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers;</li> <li>Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28);</li> <li>Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and</li> <li>Maintain records of quantities of waste generated, recycled and disposed.</li> </ul> </li> </ul>	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.9/ Waste Management Plan	<ul> <li>Storage, Collection and Transportation of Waste (con't)</li> <li>Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction &amp; Demolition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed.</li> </ul>	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010
S8.6.11 - S8.6.13/ Waste Management Plan	<ul> <li>Sorting of C&amp;D Materials</li> <li>Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site.</li> <li>Specific areas shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials.</li> <li>The C&amp;D materials should at least be segregated into inert and non-inert materials, in which the inert portion could be reused and recycled in the reclamation as far as practicable before delivery to PFRFs. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfills</li> </ul>	To minimize potential adverse environmental	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005
S8.6.17 – S8.6.20	<ul> <li>Sediments (con't) <ul> <li>Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediments or cement stabilization of sediments.</li> <li>A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO).</li> <li>In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment shury to the surrounding water.</li> <li>In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site.</li> </ul> </li> </ul>	To determine the best handling and treatment of sediment	Contractor	All works areas with sediments concern	Construction Phase	ETWB TCW No. 19/2005

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?	
S8.6.24 - S8.6.28/ Waste Management Plan	<ul> <li>Sediments (con't)</li> <li>The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by the MFC. The excaveted sediment would be disposed of according to its determined disposal options and ETWB TC(W) No. 34/2002.</li> <li>Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling areas should be clowered by tarpatin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO).</li> <li>In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges. Loading of the sediment surry to the surrounding water.</li> <li>The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should hor to filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with tight fitting seals to prevent leakage and should hor be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with</li></ul>	To ensure handling of sediments are in accordance to statutory requirements	Contractor	All works areas with sediments concern	Construction Phase	ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance	
S8.6.26/ Waste Management Plan	Chemical Wastes. <ul> <li>If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemical should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxie, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</li> </ul>	To ensure proper management of chemical waste	Contractor	All works sites	Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation	

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EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.27/ Waste Management Plan	General Refuse      General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	To ensure proper management of general refuse	Contractor	All works sites	Construction Phase	Public Health and Municipal Services Ordinance (Cap. 132)
Impact on Cultural H	eritage (Construction Phase)					
\$9.6.4	Dust and visual impacts           • Temporarily fenced off buffer zone with allowance for public access (minimum 1 m) should be provided;           • The open yard in front of the temple should be kept as usual for annual Tin Hau festival;           • Monitoring of vibration impacts should be conducted when the construction works are less than 100m from the temple.	To prevent dust and visual impacts	Contractors	Work areas	Construction Phase	EIAO; GCHIA; AMO
\$9.6.4	Indirect vibration impact <ul> <li>Vibration level is suggest to be controlled within a peak particle velocity (ppv) limit of 5mm/s measured inside the historical buildings;</li> <li>Monitoring of vibration should be carried out during construction phase.</li> <li>Tilting and settlement monitoring should will be applied on the Cha Kwo Ling Tin Hau Temple as well.</li> <li>A proposal with details for the mitigation measures and monitoring of impacts on built heritage shall be submitted to AMO for comments before commencement of work.</li> </ul>	To prevent indirect vibration impact	Contractors	Work areas	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Built Heritage Mitigation Plan	<ul> <li>Established Alert, Alarm and Action Level for the monitoring parameters.</li> <li>To increase the instrumentation monitoring and reporting frequency.</li> <li>To propose detailed action plan or contingency plan for the Engineer's approval when AAA Level is reached or exceeded.</li> </ul>	To prevent vibration impacts	NE/2015/01	Tin Hau Temple	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Landscape and Visua	l Impact (Construction Phase)					
Table 10.8.1/ Landscape Mitigation Plan	CM1 - Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape.	Avoid impact on adjacent landscape areas	CEDD (via Contractor)	General	Construction planning and during construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM2 - Reduction of construction period to practical minimum.	Minimise duration of impact	CEDD (via Contractor)	N/A	Construction planning	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM3 - Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate.	To allow re-use of topsoil	CEDD (via Contractor)	General	Site clearance	As per the Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	To minimize tree loss	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance and throughout construction period	ETWB TC 3/2006 and as per tree protection measures in Particular Specification

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

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$11.5.10 \$11.5.25	<ul> <li>Safety Measures <ul> <li>For staff who work in, or have responsibility for "at risk" area, such as all excavation workers, supervisors and engineers working within the Consultation Zone, should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards.</li> <li>An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out.</li> <li>No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a rescue if needed.</li> <li>Smoking, naked flames and all other sources of ignition should be prohibited within 15m of any excavation or ground-level confined space. "No smoking" and "No naked flame" notices should be posted prominently on the construction site and, if necessary, special areas should be designed for smoking.</li> <li>Welding, flame-cutting or other hot works should be confined to open areas at least 15m from any trench or excavation.</li> <li>Welding, flame-cutting or other hot works may only be carried out in trenches or confined spaces when controlled by a "permit to work" procedure, properly authorized by the Safety Officer (or, in the case of small developments, other appropriately qualified person).</li> <li>The permit to work procedure should set down clearly the requirements for continuous monitoring for methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure should also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should be eresponsible for reviewing the gas measurements as they are made, and who should have executive responsibility of suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out ho works in confined areas.<td>Protect the workers from landfill gas hazards</td><td>Contractor</td><td>Project sites within the Sai Tso Wan Landfill Consultation Zone</td><td>Construction phase</td><td>EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space</td></li></ul></li></ul>	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
	<ul> <li>The contractor should formulate a health and safety policy, standards and instructions for site personnel to follow.</li> <li>All personnel who work on the site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of excavations. Safety notices (in Chinese and English) should be posted at prominent position around the site warning danger of the potential hazards.</li> </ul>					
\$11.5.10 \$11.5.25	<ul> <li>Service runs within the Consultation Zone should be designated as "special routes"; utilities companies should be informed of this and precautionary measures should be implemented. Precautionary measures should include ensuring that staff members are aware of the potential hazards of working in confined spaces such as manholes and service chambers, and that appropriate monitoring procedures are in place to prevent hazards due to asphyxiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Kong).</li> </ul>					
	<ul> <li>Periodically during ground-works construction within the 250m Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored should be set down prior to commencement of ground-works either by the Safety Officer or an approved and appropriately qualified person.</li> </ul>					
	Monitoring <ul> <li>Routine monitoring should be carried out in all excavations, manholes, chambers,</li> </ul>					
	relocation of monitoring wells and any other confined spaces that may have been created. All measurements in excavations should be made with the extended monitoring tube located not more than 10 mm from the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters into the area.					
	• For excavations <b>deeper than 1m</b> , measurements should be carried out:					
	at the ground surface before excavation commences;-					
	<ul> <li>immediately before any worker enters the excavation;</li> <li>at the beginning of each working day for the entire period the excavation remains open; and</li> </ul>					
	<ul> <li>periodically throughout the working day whilst workers are in the excavation.</li> </ul>			Project sites within the Sai		EPD's Landfill Gas Hazard Assessment
\$11.5.26 - \$11.5.31	<ul> <li>For excavations between 300mm and 1m deep, measurements should be carried out:</li> </ul>	Protect the workers from landfill gas hazards	Contractor	Tso Wan Landfill Consultation Zone	Construction phase	Guidance Note
	<ul> <li>directly after the excavation has been completed; and</li> <li>periodically whilst the excavation remains open</li> </ul>					
	<ul> <li>periodically whilst the excavation remains open.</li> <li>For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person.</li> </ul>					
	<ul> <li>Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or other appropriately qualified person.</li> </ul>					
	<ul> <li>The exact frequency of monitoring should be determined prior to the commencement of works, but should be at least once per day, and be carried out by a suitably qualified or qualified person before starting the work of the day. Measurements shall be recorded and kept as a record of safe working conditions with copies of the site diary and submitted to the Engineer for approval. The Contractor may elect to carry out monitoring via an automated monitoring system.</li> </ul>					
\$11.5.32	The hazards from landfill gas during the construction stage within the Sai Tso Wan Landfill Consultation Zone should be minimized by suitable precautionary measures recommended in	construction stage within the Sai Tso Wan	Contractor	Project sites within the Sai Tso Wan Landfill	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
	Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.	Protect the workers from landfill gas hazards		Consultation Zone		Guidance Note

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

Key:

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

X Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

# Follow up action will be reported in next reporting month

**\*** Non-compliance of mitigation measure

· Non-compliance but improved by the contractor

EIA Ref	Recommended Mitigation Measures	Details of Reminder/Observation	Recorded Date	Status
Air Quality				
S3.8.1	3-sides barriers should be provided when conducting cement mixing activities.	No enclosure was observed when conducting cmenet mixing activities.	22 Feb 2024	✓
<b>Construction</b>	Noise Impact			
Water Quality	Impact			
Ecological Im	pact			
<b>Fisheries</b> Impa	ict			
Waste Manage	ement			
S8.6.4	The rubbish should be disposed and removed properly.	The rubbish was accumulated at the site entrance	29 Feb 2024	#
Landscape and	d Visual Impact			
Landfill Gas H	lazards			

APPENDIX L EVENT AND ACTION PLANS

#### **Event and Action Plan for Air Quality (Dust)**

		ACT	TION	
EVENT	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling	<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 to daily.</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 if appropriate.</li> </ol>
Action level being exceeded by two or more consecutive sampling	<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 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 and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <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>

Limit level being exceeded by one sampling	<ol> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform Contractor ,IEC, ER, and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <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>
Limit level being exceeded by two or more consecutive sampling	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> </ol>

5.	Carry out analysis of Contractor's	3. Supervise the implementation of	4. Ensure remedial measures	4. Resubmit proposals if problem still
	working procedures to determine	remedial measures.	properly implemented;	not under control;
	possible mitigation to be		5. If exceedance continues, consider	5. Stop the relevant portion of works
	implemented;		what portion of the work is	as determined by the ER until the
6.	Arrange meeting with IEC and		responsible and instruct the	exceedance is abated.
	ER to discuss the remedial actions		Contractor to stop that portion of	
	to be taken;		work until the exceedance is	
7.	Assess effectiveness of		abated.	
	Contractor's remedial actions and			
	keep IEC, EPD and ER informed			
	of the results;			
8.	If exceedance stops, cease			
	additional monitoring.			

#### **Event and Action Plan for Construction Noise**

EVENT	ACTION											
		ЕТ	IEC			ER		CONTRACTOR				
Action Level	1.	Notify IEC and Contractor;	1.	Review the analysed results submitted by the ET;	1.	Confirm receipt of notification of failure in	1. 5	Submit noise mitigation proposals to IEC;				
	2.	Carry out investigation;	2.	Review the proposed remedial measures by the		writing;	2. 1	Implement noise mitigation proposals.				
	3.	Report the results of investigation to the IEC, ER		Contractor and advise the ER accordingly;	2.	Notify Contractor;						
		and Contractor;	3.	Supervise the implementation of remedial	3.	Require Contractor to propose remedial measures						
	4.	Discuss with the Contractor and formulate		measures.		for the analysed noise problem;						
		remedial measures;			4.	Ensure remedial measures are properly						
	5.	Increase monitoring frequency to check mitigation				implemented.						
		effectiveness.										
Limit Level	1.	Identify source;	1.	Discuss amongst ER, ET, and Contractor on the	1.	Confirm receipt of notification of failure in	1.	Take immediate action to avoid further				
	2.	Inform IEC, ER, EPD and Contractor;		potential remedial actions;		writing;		exceedance;				
	3.	Repeat measurements to confirm findings;	2.	Review Contractors remedial actions whenever	2.	Notify Contractor;	2.	Submit proposals for remedial actions				
	4.	Increase monitoring frequency;		necessary to assure their effectiveness and advise	3.	Require Contractor to propose remedial measures		to IEC within 3 working days of notification;				
	5.	Carry out analysis of Contractor's working		the ER accordingly;		for the analysed noise problem;	3.	Implement the agreed proposals;				
		procedures to determine possible mitigation to be	3.	Supervise the implementation of remedial	4.	Ensure remedial measures properly implemented;	4.	Resubmit proposals if problem still not under				
		implemented;		measures.	5.	If exceedance continues, consider what portion of		control;				
	6.	Inform IEC, ER and EPD the causes and actions				the work is responsible and instruct the Contractor	5.	Stop the relevant portion of works as determined				
		taken for the exceedances;				to stop that portion of work until the exceedance is		by the ER until the exceedance is abated.				
	7.	Assess effectiveness of Contractor's remedial				abated.						
		actions and keep IEC, EPD and ER informed of										
		the results;										
	8.	If exceedance stops, cease additional monitoring.										

Parameter	Limit Level	Action
	<19%	• Ventilate to restore oxygen to >19%
Owngon		• Stop works
Oxygen	<18%	• Evacuate personnel/prohibit entry
		• Increase ventilation to restore oxygen to >19%
	>10% I EL (i.e. $> 0.5%$ by volume)	Prohibit hot works
	>10% LEL (i.e. > 0.5% by volume)	• Ventilate to restore methane to <10% LEL
Methane		• Stop works
	>20% LEL (i.e. > 1% by volume)	• Evacuate personnel / prohibit entry
		• Increase ventilation to restore methane to <10% LEL
	>0.5%	• Ventilate to restore carbon dioxide to $< 0.5\%$
Carbon		• Stop works
Dioxide	>1.5%	• Evacuate personnel / prohibit entry
		$\bullet$ Increase ventilation to restore carbon dioxide to <0.5%

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

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

**Reporting Month:** February 2024

Table M1Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution Received in the Reporting<br/>Period

Log Ref.	Location	Received Date	Details of Complaint/warnin g/summon and prosecution	Nature	Investigation/Mitigation Action	Status

**Remarks**: No environmental complaint were received in the reporting period, no warning/ summon and prosecution were received in the reporting period.

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

**Reporting Month:** February 2024

Table M2	Cumulative Log for Environmental Complain	nt, Warning, Summon and Notification of Successful Prosecution
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Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N02	Portion T1	10-Oct- 2020	Resident of Yau Lai Estate complained that i) an excavator operated before 7 am on 9 and 10 October 2020; and, ii) the height of noise barriers are not sufficient for noise reduction.	Noise	<ul> <li>Contractor was recommended to scheduled noisy works to less sensitive hours (e.g. normal weekdays between 08:00-19:00) to minimize noise nuisance.</li> <li>Since the complaint location stated in part II is situated out of the project boundary and within the other construction site, no investigation shall be conducted for non-project related complaint.</li> </ul>	Closed
		9-Feb- 2021	Resident of Cha Kwo Ling village revealed that some breaking noise was heard at his/her residence (near Cha kwo Ling Main Street) from the ground at about 20:00 on 08 Feb, 2021		• The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside	
Complaint #N04	Portion T1	6 March 2021	The complainant informed that they continues to hear breaking noise during 3-4 a.m. and caused serious noise nuisance to the residents.	Noise	the tunnel section at Kwun Tong Side on the evening time and night- time of the date of complaint are considered as one of the potential noise source of the ground borne noise nuisance.	Closed

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

#### Received Details of Complaint/warning/summon and Log Ref. Nature **Investigation/Mitigation Action** Status Location prosecution Date A valid CNP was hold and the • construction activities being taken were complied with the relevant CNP. Blast door was fully enclosed when • construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should • still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. Contractor is recommended to continue to strictly follow the requirements in the relevant CNP. • According to the condition 3.d point 5 of the CNP (GW-RE0071-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received.

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

#### Received Details of Complaint/warning/summon and Log Ref. Nature **Investigation/Mitigation Action** Status Location prosecution Date The construction activities of Trunk • Road T2 conducted inside the tunnel area and the construction activities Complainant informed that breaking noise was of TKO-LT Tunnel conducted inside heard at his/her residence (near Cha Kwo Ling 18 July the tunnel section at Kwun Tong Main Road) from the ground during 3-4 a.m. on 2021 Side on the evening time and night-17 Jul and 18 Jul 2021. time of the date of complaint are considered as one of the potential noise source of the ground borne noise nuisance. A valid CNP was hold and the construction activities being taken Complaint Portion were complied with the relevant Noise Closed **T**1 #N05 CNP. Blast door was fully enclosed when construction activities were carried Complainant further informed that they 27 July out within tunnel area to prevent, continued to hear underground breaking noise reduce or minimize the emission of 2021 during 3-5 a.m. on 27 July 2021. airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. • Contractor is recommended to

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

#### Received Details of Complaint/warning/summon and Log Ref. Nature **Investigation/Mitigation Action** Status Location prosecution Date continue to strictly follow the requirements in the relevant CNP. According to the condition 3.d point • 5 of the CNP (GW-RE0399-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. No major construction noise related • environmental deficiency was identified during ad-hoc inspection carried out by ET, RE and the Contractor representative on 12 Complainant informed that underground November 2021. breaking noise was heard at his/her residence The construction activities of Trunk (near Cha Kwo Ling Main Road) at about 10 03-Nov-Complaint Portion Road T2 conducted inside the tunnel p.m. on 03 Nov 2021. Also, the complainant Noise Closed 2021 #N06 **T**1 area and the construction activities further informed that recently they continued to of TKO-LT Tunnel conducted inside hear underground breaking noise which had the tunnel section at Kwun Tong caused serious noise nuisance to the residents. Side on the evening time and nighttime of the date of complaint are considered as one of the potential noise source of the ground borne noise nuisance.

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N06	Portion T1	25-Nov- 2021	Follow up complaint from the same complainant which informed that there was still ground bound noise nuisance after 10 p.m occasionally. The complainant further requested if the relevant works that may contribute to ground bound noise nuisance could be stopped after 10 p.m.	Noise	<ul> <li>A valid CNP was hold and the investigation is still undertaken in order to investigate the construction activities being taken were complied with the relevant CNP.</li> <li>Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise</li> <li>In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs.</li> <li>Contractor is recommended to continue to strictly follow the requirements in the relevant CNP.</li> <li>According to the condition 3.d point 5 of the CNP (GW-RE1035-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received.</li> </ul>	Closed

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint	Portion	17-Feb-22	Complainant informed that noise from drilling activities near Tin Hau Temple was perceived all day.	Noise	<ul> <li>The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side are considered as one of the potential noise source of the ground borne noise nuisance.</li> <li>A valid CNP was hold and the construction activities being taken wore complied with the relevant</li> </ul>	Closed
#N07	T1		INDISE	<ul> <li>were complied with the relevant CNP.</li> <li>Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise</li> <li>In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide</li> </ul>	Closed	

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

Tepor ting I						
Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
		12-April- 22	3 <sup>rd</sup> complaint from the same complainant was received again, he/ she complained that his/ her family were affected by the noise from construction site of T2 at the night-time period and felt no improvement on this issues.		<ul> <li>regularly maintenance for PMEs.</li> <li>Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP.</li> <li>According to the condition 3.d point 5 of the CNP (GW-RE1201-21, GW-RE0199-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received.</li> </ul>	
Complaint #N08	Portion T1	19-Oct-22	Complainant informed that the groundborne noise was heard at his/her residence (near Cha Kwo Ling Main Road) everyday, including the public holiday. Also, the complainant further informed that recently they continued to hear groudborne noise which had caused serious noise nuisance to the residents	Noise	<ul> <li>A valid CNP was hold and construction activities being taken were complied with the relevant CNP</li> <li>Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise</li> <li>In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide</li> </ul>	Closed

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

#### Received Details of Complaint/warning/summon and Log Ref. Nature **Investigation/Mitigation Action** Status Location prosecution Date regularly maintenance for PMEs. Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP. According to the condition 3.d point 5 of the CNP (GW-RE0997-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received A valid CNP was hold and construction activities being taken were complied with the relevant CNP Blast door was fully enclosed when Complainant informed that the underground construction activities were carried breaking noise was heard at her residence (near Complaint out within tunnel area to prevent, Portion 28-Oct-22 Noise Closed #N09 **T**1 Cha Kwo Ling Main Road) after the blasting reduce or minimize the emission of work every day. airborne noise In addition, the Contractor should ٠ still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs.

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

M-9

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

#### Received Details of Complaint/warning/summon and Log Ref. Nature **Investigation/Mitigation Action** Status Location prosecution Date Contractor is recommended to • continue to strictly follow the requirements in the relevant CNP and the approved CNMP. According to the condition 3.d point • 5 of the CNP (GW-RE0997-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received A valid CNP was hold and construction activities being taken were complied with the relevant CNP The contractor has taken steps to ٠ Portion Complainant informed that address noise concerns by there was a noise nuisance from **T**1 11th Complaint implementing noise control & construction work between 8 Noise August Closed #N11 measures such as erecting noise Portion 2023 am and 7 pm, causing an barriers and using a hydraulic V impact on the residents. breaker equipped with a noise muffler. In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					<ul> <li>less sensitive hours and provide regularly maintenance for PMEs.</li> <li>Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP.</li> <li>According to the condition 3.d point 5 of the CNP (GW-RE0603-23), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received</li> </ul>	
		23rd August 2023	The complainant informed that there were vibrations caused by the works in CKL Tunnel on 21 August 2023. They stated that their units are temporary housing with certain risks involved and requested an explanation for the project as well as appropriate actions to be taken		<ul> <li>A valid CNP was hold and construction activities being taken were complied with the relevant CNP</li> <li>The contractor has taken steps to address noise concerns by implementing noise control measures such as erecting noise barriers and using a hydraulic breaker equipped with a noise muffler.</li> <li>In addition, the Contractor should</li> </ul>	Closed

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

#### Received Details of Complaint/warning/summon and Log Ref. Nature **Investigation/Mitigation Action** Status Location prosecution Date still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. Contractor is recommended to • continue to strictly follow the requirements in the relevant CNP and the approved CNMP. According to the condition 3.d point 5 of the CNP (GW-RE0603-23), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received A valid CNP was hold and construction activities being taken EPD received a complaint from a resident of were complied with the relevant Cha Kwo Ling Village regarding vibrations CNP 6th caused by the construction works of the T2 September Noise Closed The weekly noise monitoring and project on 5 September 2023. The complainant 2023 additional noise assessments have stated that these vibrations are affecting House verified that the noise levels remain No. 78 in the village. within the set limits. Moreover, the groundborne noise measurements

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					<ul> <li>data suggests that the noise levels are well within the criteria outlined in the TM.</li> <li>The contractor has taken steps to address noise concerns by implementing noise control measures such as erecting noise barriers and using a hydraulic breaker equipped with a noise muffler.</li> <li>In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs.</li> <li>Contractor is recommended to continue to strictly follow the requirements in the relevant CNP</li> </ul>	
					<ul> <li>and the approved CNMP.</li> <li>According to the condition 3.d point 5 of the CNP (GW-RE0973-23), the</li> </ul>	

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received	

APPENDIX N SUMMARY OF EXCEEDANCE

### Contract No. ED/2018/04

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

### **Appendix N – Summary of Exceedance**

### **Reporting Period: February 2024**

### (A) Exceedance Report for Air Quality

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

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

### (B) Exceedance Report for Construction Noise

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

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

### (C) Exceedance Report for Landfill Gas

(NIL in the reporting month).

APPENDIX O TENTATIVE CONSTRUCTION PROGRAMME

#	Activity 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
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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>		4										
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	
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)

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parapets	s) up	to CP	12					: : :			
711-R0	756 (	46 pa	rapets)	up to	CP13			r			
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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
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#	Activity Name	Dur	Start	Finish	2024 nuary February March April
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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)

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	L					nuary 14	21	28	04	Februa 11	ary 18	25	03	Ma 10	arch 17	24	31	07	April 14	21	28	05	Ţ
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 1	: : :
210		1st Fixing	24	12-Mar-24	13-Apr-24				1	: : :	1			1	1	1						1	1
211		E&M Bracket	24	12-Mar-24	12-Apr-24													1		Bracke			
212		NCPS Bracket completion	0		13-Apr-24*														NCF	PS Brack	(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*					•		٠	High V	/oltag	e cabl	e deliv	very a	rrival 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			• • • •  • •														<b>—</b> (	Cab
218		Smartone / CSL / GOFS by others	24	08-May-24	05-Jun-24																		<u> </u>
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	
227	-		10		11-Apr-24					: 	: : : :					·				, Laying		<u> </u>	1 0
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					; ; ;													
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 pain	t paintii	ng				
234		Linear Heat Detection Cable bracket, Containment Installation -	30	22-Mar-24	30-Apr-24					: : : :	: : : 			: : : :	[				: 			inear l	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	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	ion					J     	
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	UE!	S

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			💻 Ca	ble F	ixing -	NCPS			,		
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#	Activity N	Name	Dur	Start	Finish											2024									
	,					nuary 14	21	28 04	February	18 25	03	March 10	17 24	31	April	4 21	28	Ma 05   12		26 02	Jun 09		23	Jul 30 07 1	y 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		· · · · · · · · · · · · · · · · · · ·				· <u>1</u> <u>1</u> 1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·
249		TCSS access date OHVD soffit	0	02-May-24					- 4							· · · · · · · · · · · · · · · · · · ·	♦ T(	CSS acce	ss date Ol	HVD sof	fit				
250		TCSS access date NCPS	0	24-May-24															◆ T	CSS acc	ess date	NCPS		·	
251		CPS	48	12-Apr-24	08-Jun-24																				
252		TCSS installation CPS	48	12-Apr-24	08-Jun-24																	Sinstalla	ation C	PS	
253		OHVD Soffit	48	02-May-24	28-Jun-24																	·		·	
254		TCSS installation OHVD soffit	48	02-May-24	28-Jun-24					 		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·										<b></b> T	CSS installa	ion 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																Subfra	me inst	tallatio	n @ 10R/day	- Phase 1 ir
258		3rd section CH7607-8107 - (500m)	93	29-Feb-24	24-Jun-24																			,	
259		E&M Installation (BYME)	93	29 T cb 24 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 instal	ation			·	
263			34	15-Apr-24*	13-May-24										· · · · · · · · · · · · · · · · · · ·									·	
264				14-May-24	24-Jun-24										· · · · · · · · · · · · · · · · · · ·				(	Cable I	wing - CE	20		·	
265		Cable Laying - CPS	10	14-May-24	25-May-24							· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·						iyinig - Ol		l Cahl	e Fixing - CF	с
265		Cable Fixing - CPS OHVD Soffit	24	27-May-24	24-Jun-24															· · · · · · · · · · · · · · · · · · ·				e i ixiliy - çr	<b>.</b>
		1st Fixing	36	15-Mar-24	30-Apr-24										·										
267			36	15-Mar-24	30-Apr-24										De and som	nlation (D								·	
268		OHVD Soffit Fire Board completion (BTP)	0		15-Mar-24*											pletion (B	18)							·	· · · · · · · · · · · · · · · · · · ·
269		Black paint painting	6	15-Mar-24	21-Mar-24								Blac	ж paint	painting	· · · · ·		an Haat F		Cabla h.		-			
270		Linear Heat Detection Cable bracket, Containment Installation -	30	22-Mar-24	30-Apr-24											, , , , , , , , , , , , , , , , , , ,								tallation - OF	
271		Non CP side	91	29-Feb-24	21-Jun-24										·										
272		1st Fixing	24	11-May-24	11-Jun-24						<del>-</del>				·									· · · · · · · · · · · · · · · · · · ·	
273		E&M Bracket	24	11-May-24	08-Jun-24																	Bracke			
274		NCPS Fire Board completion	0		11-Jun-24*											· · · · · · · · · · · · · · · · · · ·					◆ NC	PS Fire	e Board	d completion	
275		2nd Fixing	91	29-Feb-24	21-Jun-24		: : :										·	: : : :		: : : :		: : :		· · · · · · · · · · · · · · · · · · ·	· · · · ·
276		NCPS Parapet completion	0		29-Feb-24*					•	NCPS	Parape	t complet	tion				:							
277		HV Cable Pulling - NCPS (Parapet location)	30	29-Feb-24	08-Apr-24					[					💻 HV Ca	able Pullin	g - NCF	'S (Parap	et locatior	ר)				· · · · · · · · · · · · · · · · · · ·	
278		Cable Laying - NCPS	10	11-Jun-24	21-Jun-24																	<b></b> C	Cable L	aying - NCP	S
279		4th section CH8107-8550 - (500m)	36	29-Feb-24	15-Apr-24												1			: : : :					
280		E&M Installation (BYME)	36	29-Feb-24	15-Apr-24		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	cket							· · · · · · · · · · · · · · · · · · ·	
285		2nd Fixing	30	29-Feb-24	08-Apr-24							· · · · · · · · · · · · · · · · · · ·						+				 			
286		NCPS Parapet completion	0		29-Feb-24*					•	NCPS	Parape	t complet	tion										·	
287		HV Cable Pulling - NCPS (Parapet location)	30	29-Feb-24	08-Apr-24			-		[					🗖 HV Ca	able Pullin	g - NCF	'S (Parap	et locatior	ר)				· • • • • • • • • • • • • • • • • • • •	
Pa	ge 7 c	of 8	;			·	1		. 1	1		. 1	1	· I			1			Date	Re	vision		necked	Approved
Γa	ye i c	Planned Bar Critical Bar		ED	)/2018/04								/orks			BOU	IVGI	FS	31	-Jan-24	Rev.	4	SPa		
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#	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	ed be	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> terite 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		···┼··┝··┼┟┼┊ <b>╎╬</b> ╢╴╏┊╶╠┼╬╟╷┼╴┼╴╴┼╴	┟ <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			TET 19
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	2100127			
		▲ ► ► ► ► ► ► ►						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						10 14 - 1 10 10 10		-++ 
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> <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					



ivity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish				23 Jul A S Oct N D			4 Jul A S	Oct N D	Jan F M	1 Apr M J	2025 un Jul Au	g S Oct
<b>0</b> 111 <b>- -</b> -			27.6	44.14	40.5	07.5	13 14 1	15 16	17 18	19 20 21 22 23 24	25 26 27 2	28 29 30 3	31 32 33	34 35 36	37 38 39	9 40 41 4	42 43 44	4 45 46 4
SW1720	Install PA Equipment	12	27-Apr-24	11-May-24	13-Dec-24													
SW1730	Install ET Equipment	12	13-May-24	27-May-24	28-Dec-24	11-Jan-25							<u> </u>					
SW1680	Install Manual Fallback Control Equipment	24	24-Jun-24	22-Jul-24	09-Jan-25	08-Feb-25							₽					
SW1700	Install Operation Facilities Equipment	14	26-Jun-24	12-Jul-24	21-Jan-25	08-Feb-25												
SW1740	Signal Cable Laying	15	23-Jul-24	08-Aug-24	10-Feb-25	26-Feb-25							<b>*-</b>					
East Ventilation	n Building	279	04-Sep-23	08-Aug-24	07-Sep-24	26-Feb-25												
SW2960	Inspect Civil Provisions & Submit Inspection Report	12	04-Sep-23	16-Sep-23	07-Sep-24	21-Sep-24												
SW2970	Rectify Civil Provision Defects by Others	18	18-Sep-23	10-Oct-23	23-Sep-24	15-Oct-24												
Installation We	orks	249	11-Oct-23	08-Aug-24	16-Oct-24	26-Feb-25												
SW1750	Install Cable Containments	24	11-0ct-23	08-Nov-23	16-Oct-24	12-Nov-24												
SW1760	Position Equipment Rack	12	09-Nov-23	22-Nov-23	23-Nov-24	06-Dec-24												
SW1790	Install PABX Equipment	20	10-Nov-23	02-Dec-23	06-Nov-24	28-Nov-24												
SW1770	Install Network Equipment	36	25-Mar-24	07-May-24	07-Dec-24	20-Jan-25												
SW1810	Install Radio Equipment	12	13-Apr-24	, 26-Apr-24	29-Nov-24	12-Dec-24												
SW1820	Install PA Equipment	12	27-Apr-24	11-May-24	13-Dec-24	27-Dec-24												
SW1830	Install ET Equipment	12	13-May-24	27-May-24	28-Dec-24	11-Jan-25												
SW1050	Install Manual Fallback Control Equipment	24	24-Jun-24	22-Jul-24	09-Jan-25	08-Feb-25					····					╢╋╌╢╬╌╺╬		
SW1700	Install Operation Facilities Equipment	14	26-Jun-24	12-Jul-24	21-Jan-25	08-Feb-25							<b>,</b> <b>,</b>			╢╹╴╴╢╴╶╺		
SW1800	Signal Cable Laying	15	23-Jul-24	08-Aug-24	10-Feb-25	26-Feb-25	+++									╢╹╴╴╢╴╶┽		
Site Commissi		142	15-0ct-24	03-Aug-24	22-Nov-24	21-May-25	<b></b>						┟निः॑╡			╢╋╴╴╢╋╴╴╋╴		
				· ·	22-Nov-24	-												
TC1260	SCT of Power Distribution System	66	15-0ct-24	31-Dec-24		12-Feb-25										╢╻╴╢╴╷		
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												
TC1360	SCT of SEC System	48	11-Dec-24	10-Feb-25	24-Mar-25												3	
TC1270	SCT of CCTV System	60	18-Dec-24	03-Mar-25	10-Jan-25	24-Mar-25								<b>T</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												
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												
Site Commissi	oning Test Report	100	02-Jan-25	03-May-25	22-May-25	19-Jun-25												
DS5050	Submit Power Distribution System SCT Test Report	24	02-Jan-25	01-Feb-25	22-May-25	19-Jun-25												
DS5110	Submit ET System SCT 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												
DS5060	Submit PA System SCT Test Report	24	04-Mar-25	31-Mar-25	22-May-25	19-Jun-25			[								]	
DS5070	Submit PABX System SCT Test Report	24	04-Mar-25	31-Mar-25	22-May-25	19-Jun-25	1-1-1										<u> </u>	
DS5080	Submit CCTV System SCT Test Report	24	04-Mar-25	31-Mar-25	22-May-25		1.1.1.1										- -  -    -  -	
DS5120	Submit Communication System SCT Test Report	24	07-Mar-25	03-Apr-25	22-May-25		+-+-+								╡╴ <del>╏</del> ╢╋╅ <mark>┇</mark>		- -  -	
DS5120	Submit Detection System SCT Test Report	24	11-Mar-25	08-Apr-25	22-May-25	19-Jun-25									··· <mark>·</mark> ││ <mark> →</mark>			
DS5320	Submit GOFS System SCT Test Report	24	14-Mar-25	11-Apr-25	22-May-25		+-+-+						+-+		··· <mark></mark>			
DS5130	Submit Optical Fibre System SCT Test Report	24	04-Apr-25	03-May-25	-		+++-				····		+++++++++++++++++++++++++++++++++++++++		·· <mark>·</mark> │	╎╷╴╴╕╡╴╴╢╴ ┝┥ <mark>╶╶</mark> ┪	· · · · · · · · · · · · · · · · · · ·	
	Branch Tunnel in TKO-LTT Site	161	26-Feb-24	05-Sep-24	04-Jan-25	19-Jun-25	<b></b>				····		+ - +			┊┥╴╴┤╬╌╌╢╴		
SW1850	Inspect Civil Provisions & Submit Inspection Report	3	26-Feb-24	28-Feb-24	04-Jan-25	07-Jan-25							+ - + +			· · · · · · · · · · · · · · · · · · ·		
SW1850 SW1860	Rectify Civil Provision Defects by Others	7	20-Feb-24 29-Feb-24	07-Mar-24	04-Jan-25	15-Jan-25	+++				┉╘╧┈		+-++		╴╴╋╢╻	·	· -  -    -	
Installation Wo		80	08-Mar-24	13-Jun-24	16-Jan-25	22-Apr-25	<b></b>				····├┌─╄ <sub>┚</sub> ┲┫		*****			····		
SW1890	Install Cable Containments	36	08-Mar-24	13-Jun-24 19-Apr-24	01-Feb-25	14-Mar-25					····∣·↓·↓		• • • • • • • • • • • •			· · · · · · · · · · · · ·		
				· ·							····		• • • • • • • • • • • • • • •		╴╴╻			
SW1870	Install CCTV Camera	29	03-Apr-24	08-May-24	16-Jan-25	21-Feb-25										┊┥╴┤╉╴╢		
SW1880	Install Detection Camera	29	13-Apr-24	18-May-24	28-Jan-25	05-Mar-25					1				• • • <mark>•</mark> •••••	;-   <b>   </b> -		
SW1920	Signal Cable Laying	36	20-Apr-24	03-Jun-24	11-Mar-25	· ·	4									· · · · · · · · · · · · ·		
SW1900	Install Traffic Control Devices	24	24-Apr-24	23-May-24	21-Feb-25	20-Mar-25												
											Date	1	Revisior	<u>1</u>	Chec	ked	Ar	oproved
3	Planned Activities	Milestone								+	18-Apr-23	Rev. D			=C		· 4	
	Actual Work										10-May-23	Rev. E			=C			
СТ	ECH Services (Hong Kong) Limited									Page 5 of 6		Rev. F			ΛY			
I UI																		

	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		╴╴╎╴╴┣╪╼╠┊┆╎╵╵╴╵╵╴╵	· · · · · · · · · · · · · · · · · · ·
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-75	29-Sep-25			



