Civil Engineering and Development Department

Trunk Road T2

Monthly Environmental Monitoring and Audit Report

(under EP-451/2013)

September 2024

(Version 1.0)

Approved By 

(Environmental Team Leader:

Mr. KS Lee)

REMARKS:

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

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

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RAMBOLL

Ref.: CEDKTDT2EM00_0_0670L.24

14 October 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 (September 2024) for EP-451/2013

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for September 2024 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 14 October 2024. We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 of EP-451/2013.

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

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

Y H Hui
Independent Environmental Checker

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

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EXECUTIVE SUMMARY

Introduction

1. This is the 55th Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for "Trunk Road T2". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-451/2013 and in accordance with the EM&A Manual (AEIAR-174/2013) during the reporting month of September 2024.

Summary of Main Works Undertaken and Key Measures Implemented

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

Table I Summary of Key Construction Work in the Reporting Month

Contract No.	Project Title	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	• WVB – ABWF works • WVB – E&M works • WVB – External works • SUS – Fire Board • SUS – Skin Wall • SUS – E&M Bracket • Launching Shaft / Cut & Cover – RC Structure • Launching Shaft / Cut & Cover – Backfilling • TSS – WB TBM Tunnelling • TSS – EB TBM Tunnelling • TSS – WB internal structure • TSS – EB internal structure up to CP22 • CP – TSS WB Tympanum construction
ED/2020/03	Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works (1)	• WVB Installation of cable containment • WB Tunnel – Installation of cable containment

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

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

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

Contract No. and Project Title	Key Mitigation Measures Implemented
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	*Air Quality* • Water spraying regularly on construction site area to avoid dust generation. • Excavated dusty materials were covered by impervious sheets. *Noise* • Air compressor was operated with door closed and have valid noise labels. • Use of Quality Powered Mechanical Equipment (QPME) • Erecting noise barriers on site to minimize noise impact generated from breaking activities. *Water Quality* • WetSep was constructed to treat the surface runoff prior to discharge. *Landscape and Visual* • Tree protection zone was fenced off to protect the existing tree.
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works (1)	N/A

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

Summary of Exceedances, Investigation and Follow-up

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

Air Quality Monitoring
- No Action Level exceedance for 24-hour TSP was recorded.
- No Limit Level exceedance for 24-hour TSP was recorded.

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

Landscape and Visual Monitoring and Audit

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

Complaint Handling, Prosecution and Public Engagement

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

Event	Event Details		Follow-up/ Remedial Actions	Status/ Remarks
	Number	Brief Description		
Complaints Received	2	A complaint regarding dust nuisance, suspected to be caused by the construction works at the Launching Shaft area	• The complaint is considered as **project related**. • The dust emission was related to the bentonite refilling activities. • The following recommendations are made to contractor to further enhance the mitigation measures: 1. Conduct regular maintenance for several plants which used for refilling work. 2. Reduce the maximum capacity of silo to 85% of total volume to prevent recurrence.	Closed
		A complaint regarding untreated water discharged into an unknown underground pipe inside the site via a blue plastic hose, muddy water also appeared at seafront of T2 site	• The complaint is considered as **non-project related**. • There is no direct evidence that the muddy water at seafront of T2 site was caused by the construction activities. • The following recommendations are made to contractor to further enhance the mitigation measures: 1. To avoid misleading, a water pump was directly connected from Cut & Cover Shaft to the designated sump pit. 2. Conduct regular maintenance for wastewater treatment facilities to maintain the quality of effluent. 3. Conduct regular water quality monitoring. 4. Carry out regular visual inspection to the Kai Tak	Closed

			Approach Channel (near the outfall of discharge point) to prevent illegal discharge of untreated water.	
Notification of Summons and Prosecutions Received	0	-	-	-
Public Engagement Activities	0	-	-	-

Reporting Changes

5. No reporting change in this reporting month.

Future Key Issues

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

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

Contract No. and Project Title	Site Activities (October 2024)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	• WVB – ABWF works • WVB – E&M works • WVB – External works • DPR – GRC panel subframe installation • SUS – Skin wall • SUS – Fireboard • SUS – E&M brackets • SUS – E&M works • Launching Shaft / Cut & Cover – RC Structure • Launching Shaft / Cut & Cover – Backfilling • TSS – WB TBM Tunnelling • TSS – EB TBM Tunnelling • TSS – WB internal structure • TSS – EB internal structure up to CP22 • CP – TSS WB Tympanum construction	(A) / (B) / (C) / (D)
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works (1)	• Mock-up inside tunnel – cable containment, ALCS, CCTV, VD • Mock-up installation inside Service Gallery – PA speaker • Simulation test of pa speaker at WVB • Material delivery: Power cable, fibre cable	

Notes:
(1): No major construction work was undertaken during reporting month.
N/A: Not applicable
(A) Dust generation from haul road, stockpile of dusty materials, exposed site area, excavation works and rock

breaking activities;
(B) Noisy construction activity such as rock-breaking activities and piling works
(C) Runoff from exposed slope or site area; and
(D) Wastewater and runoff discharge from site.

Review of Status and Location of Monitoring Stations

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

Table V Summary Table for Review of Status and Location of Monitoring Stations

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

N/A: Not Applicable

1 INTRODUCTION

Background

1.1 In 2009, Civil Engineering and Development Department (CEDD) commissioned a Kai Tak Development (KTD) – Trunk Road T2 and Infrastructure at South Apron Investigation. The assignment covers the provision of the Trunk Road T2 and its connections with the Central Kowloon Route (CKR) at the north apron area and the Tseung Kwan O – Lam Tin Tunnel (TKOLTT) to the south in the Cha Kwo Ling area.

1.2 The Trunk Road T2 Project is one of the designated Projects under Schedule 2 of the EIAO proposed in the KTD. CEDD submitted the Project Profile (No. PP-379/2009) on 24 March 2009 for application for an EIA study brief for the Trunk Road T2 Project under the EIAO. Accordingly, an EIA Study Brief (ESB-203/2009) for the Trunk Road T2 Project was issued on 30 April 2009. The Environmental Impact Assessment (EIA) Report for the Trunk Road T2 Project was approved under the Environmental Impact Assessment Ordinance (EIAO) on 19 September 2013. The corresponding Environmental Permit (EP) was issued on 19 September 2013 (EP no.: EP-451/2013).

1.3 The Contract No. ED/2018/04 is the main contract of Trunk Road T2 ("T2 Main Works") which comprises mainly the design and construction of a dual two-lane trunk road of approximately 3.4km long with about 3.1km of the trunk road in form of tunnel; ventilation and administration buildings, environmental protection and mitigation works and etc. Moreover, the Contract No. ED/2020/03 is the other contract under Truck Road T2 Project which comprises mainly design and construction of the TCSS for this Project. The EM&A programme at Kai Tak area under the Contract ED/2018/04 and ED/2020/03 are governed by the EP-451/2013 and EM&A Manual (AEIAR-174/2013). The work areas of the Trunk Road T2 Project are shown in **Figure 1** and the works to be executed under each Contract and corresponding EP are summarized as follows:

Environmental Permit	**Works Description**
EP-451/2013 – Trunk Road T2	*ED/2018/04* • Construction of highway and sub-sea tunnel connecting between Central Kowloon Route and Cha Kwo Ling Tunnel • Western & Eastern Ventilation Buildings *ED/2020/03* • Design and construction of TCSS for Trunk Road T2

Monitoring Works in Kai Tak under EP-451/2013

1.4 Under Contract No. KL/2014/03 – Kai Tak Development – Stage 3 Infrastructure Works for Development at the Southern Part of the Former Runway ("T2 Advance Works"), the baseline monitoring works in Kai Tak under the EM&A Manual (AEIAR-174/2013) were conducted by the Environmental Team (ET) for the Contract No. KL/2014/03 at the approved relocated monitoring locations (EPD reference: EP2/K19/A/21 pt.5), namely KTD1a, KTD2a & KER1a. During the impact monitoring period, monitoring locations KTD 2a and KER 1a were relocated to new locations, i.e. KTD 2b and KER 1b (EPD reference: ( ) in EP2/K19/A/21 pt. 6 and ( ) in EP2/K19/A/21 pt. 5) respectively. Location KTD2b was then further relocated to location KTD2c, the proposal of such relocation was submitted to EPD on 24 March 2020 and was approved by EPD on 6 April 2020 (EPD reference: ( ) in EP2/K19/A/21 pt.7). The aforementioned relocation was effective from 9 April 2020. Since the major part of work under

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

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

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

1.6 Cinotech Consultants Ltd. Was designated as the Environmental Team (ET) to undertake the EM&A works for "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron" (hereinafter called the "Project") and "Trunk Road T2 –Traffic Control & Surveillance System (TCSS) and Associated Works".

Purpose of the Report

1.7 This is the 55th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in September 2024.

Project Organizations

1.8 Different Parties with different levels of involvement in the Project organization include:

- Permit Holder – Civil Engineering and Development Department (CEDD)
- Supervisor Representative – Hyder-Meinhardt Joint Venture (HMJV)
- Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
- Independent Environmental Checker (IEC) – Ramboll Hong Kong Limited (Ramboll)
- Contractor – Bouygues Travaux Publics (BTP) (For ED/2018/04) & GTECH Services (Hong Kong) Limited (For ED/2020/03)

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

Table 1.1 Key Project Contacts

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

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

Construction Activities undertaken during the Reporting Month

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

Table 1.2 Summary of Key Construction Work in the Reporting Month

Contract No.	Project Title	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	• WVB – ABWF works • WVB – E&M works • WVB – External works • SUS – Fire Board • SUS – Skin Wall • SUS – E&M Bracket • Launching Shaft / Cut & Cover – RC Structure • Launching Shaft / Cut & Cover – Backfilling • TSS – WB TBM Tunnelling • TSS – EB TBM Tunnelling • TSS – WB internal structure • TSS – EB internal structure up to CP22 • CP – TSS WB Tympanum construction
ED/2020/03	Trunk Road T2 – Traffic Control And Surveillance System (TCSS) and Associated Works (1)	• WVB Installation of cable containment • WB Tunnel – Installation of cable containment

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

1.12 The EM&A programme requires construction noise, air quality monitoring and environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA Report.

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

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

Status of Environmental Licensing and Permitting

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

Table 1.3 Summary of Environmental License and Permit

Contract No.	Permit / License No.	Valid Period		Status
		From	To	
Environmental Permit (EP)				
N/A	EP-451/2013	19 Sep 2013	N/A	Valid
Notification pursuant to Air Pollution (Construction Dust) Regulation				
ED/2018/04	Ref. No.: 451120	20 Nov 2019	N/A	Valid
ED/2020/03	Ref. No.: 483143	15 Aug 2022	N/A	Valid
Billing Account for Construction Waste Disposal				
ED/2018/04	A/C No.: 7036016	09 Dec 2019	N/A	Valid
ED/2020/03	A/C No.: 7043158	31 Jan 2022	N/A	Valid
Billing Account for Vessel Disposal				
ED/2018/04	A/C No.: 7037747 (Application No.: CEDD01244)	25 Jul 2024	25 Oct 2024	Valid
Construction Noise Permit				
ED/2018/04	CNP No. (For Depressed Road): GW-RE0447-24	30 Apr 2024	29 Oct 2024	Valid
	CNP No. (For Kai Fuk Road): GW-RE0826-24	16 Jul 2024	12 Sep 2024	Valid until 12 Sep 2024
	CNP No. (For Launching Shaft and Barging Point): GW-RE0988-24	25 Aug 2024	24 Feb 2025	Valid
	CNP No. (For Kai Fuk Road): GW-RE1026-24	16 Sep 2024	31 Oct 2024	Valid
Wastewater Discharge License				
ED/2018/04	WT00036183-2020 (For Depressed Road Area)	27 Jul 2020	31 Jul 2025	Valid

Contract No.	Permit / License No.	Valid Period		Status
		From	To	
	WT00039117-2021 (For Site Office and Support Area)	28 Sep 2021	30 Sep 2026	Valid
	WT00036228-2020 (For Launching Shaft)	10 Nov 2021	31 Jul 2025	Valid
	WT10001495-2023 (For TBM Consumable Storage Area)	12 Mar 2024	31 Mar 2029	Valid
Chemical Waste Producer License				
ED/2018/04	WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid
Marine Dumping Permit				
ED/2018/04	EP/MD/25-012	5 Jul 2024	4 Oct 2024	Valid

2. AIR QUALITY

Monitoring Requirement

2.1 According to the EM&A Manual (AEIAR-174/2013), 24-hour Total Suspended Particulates (TSP) monitoring was conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. In case of complaints, 1-hour TSP monitoring should be conducted at least three times in every six days when the highest dust impacts are likely to occur. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

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

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

Table 2.1 Air Quality Monitoring Locations

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

Monitoring Parameters and Frequency

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

Table 2.2 Frequency and Parameters of Air Quality Monitoring

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

Monitoring Equipment

2.5 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual (AEIAR-174/2013), Section 2.2.1.4, were used to carry out 24-hour TSP monitoring. Direct reading dust meter were also used to measure 1-hour average TSP levels. The 1-hour sampling was determined by HVS to check the validity and accuracy of the results measured by direct reading method.

2.6 Wind data monitoring equipment was set at rooftop (about 41/F) of Yau Lai Estate Bik Lai House, Lam Tin for logging wind speed and wind direction such that the wind sensors were clear of obstructions or turbulence caused by building. The wind data monitoring equipment was re-calibrated at least once every six months and the wind directions were divided into 16 sectors of 22.5 degrees each. Wind data is attached in **Appendix D**.

2.7 **Table 2.3** summarizes the equipment used for air quality monitoring. Copies of calibration certificates are attached in **Appendix C**.

Table 2.3 Air Quality Monitoring Equipment

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

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

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

(Sibata Model No.: LD-3B/LD-5R)

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

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

Maintenance/Calibration

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

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

24-hour TSP Monitoring

Instrumentation

2.10 High volume samplers (HVS) (TISCH Model: TE-5170) complete with appropriate sampling inlets was employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in Section 2.2 of the Annex II Specification.

2.11 The positioning of the HVS samplers are as follows:

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

Operating/analytical procedures for the operation of HVS

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

- Prior to the commencement of the dust sampling, the flow rate of the high-volume sampler was properly set (between 0.6 m^3/min. and 1.7 m^3/min.) in accordance with the EM&A manual (AEIAR-174/2013). The flow rate shall be indicated on the flow rate chart.
- For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3μm diameter were used.
- The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminium strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (High Precision Chemical Testing Ltd.) for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

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

- The high-volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
- High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

Results and Observations

2.14 Impact air quality monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**.

2.15 No Action and no Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month. No exceedance of 24-hour TSP were considered as **project related** and no exceedance of 24-hour TSP were considered as **non-project related**. Details of the exceedance are presented in **Appendix M**.

2.16 The air temperature, relative humidity, and the precipitation data were obtained from daily extracts of Hong Kong Observatory Climate Information Service. This weather information for the reporting month is summarized in **Appendix D**.

2.17 The monitoring data and graphical presentations of 24-hour TSP monitoring results are shown in **Appendix F**.

2.18 According to field observations observed in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

Table 2.4 Major Dust Source during Air Quality Monitoring

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

Comparison of EM&A Result with EIA Prediction

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

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

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR-174/2013), µg/m^3	Maximum 24-hr TSP Concentration in the Reporting Month (September 2024), µg/m^3
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	44.1
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A (1)	N/A (1)	67.5
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	52.9
CKL1 - Flat 121 Cha Kwo Ling Village	N/A (1)	N/A (1)	94.6
CKL2 - Flat 103 Cha Kwo Ling Village	N/A (1)	N/A (1)	160.1

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

2.20 In the reporting month, the 24-hour TSP concentration at KER1 and KTD1 were lower than the prediction in the EIA Report, AEIAR-174/2013 (as approved in 2013). No Action and Limit level exceedance for 24-hour TSP was recorded in the reporting period.

3 NOISE

Monitoring Requirement

3.1 According to the EM&A Manual (AEIAR-174/2013), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

3.2 Noise monitoring was conducted at five designated monitoring stations, namely KTD1, KTD2d, KER1, CKL1 and CKL2 in the reporting period. **Table 3.1** and **Figure 2** show the locations of these stations.

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

Table 3.1 Noise Monitoring Stations

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

Monitoring Parameters, Frequency and Duration

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

Table 3.2 Frequency and Parameters of Noise Monitoring

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

Monitoring Equipment

3.5 Integrating Sound Level Meter was used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.3** summarizes the noise monitoring equipment being used within the reporting period. Copies of calibration certificates are attached in **Appendix G**.

Table 3.3 Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308 (Serial no. 580287, 570188, 570183, 580156) SVAN 957 (Serial no. 21455)	5
Calibrator	AWA6021A (Serial no. 1023064,1023253)	2

Monitoring Methodology and QA/QC Procedure

3.6 The monitoring procedures are as follows:

- The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - Frequency weighting: A
  - Time weighting: Fast
  - Time measurement: 30 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement

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

- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq}, L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

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

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

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

Results and Observations

3.10 Impact noise monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**. No Action and Level exceedance was recorded for day time construction noise monitoring in the reporting month.

3.11 Noise monitoring results and graphical presentations are shown in **Appendix H**.

3.12 According to field observations observed in the reporting period, the major noise sources identified at the noise monitoring stations are shown in **Table 3.4**.

Table 3.4 Other Noise Source Identified during Noise Monitoring

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

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

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

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

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
KTD1	78	75
KTD2d	64	
KER1	65	
CKL1	72.4	
CKL2	71.4	

Comparison of EM&A Result with EIA Prediction

3.14 The noise monitoring data was compared with the predictions in Table 5.13 of EIA Report (AEIAR-174/2013) as summarised in **Table 3.6**.

Table 3.6 Maximum Predicted Mitigated Construction Noise Levels in EIA Report

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR-174/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (September 2024), Leq (30min) dB(A)
KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD1	74	70.3
KTD2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A (1)	N/A (1)	66
KER1 – Future Residential Development at Kerry Godown	KER1	75	74
CKL1 - Flat 121 Cha Kwo Ling Village	CKL4	71	67
CKL2 - Flat 103 Cha Kwo Ling Village	CKL5	69	75

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

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

4 WATER QUALITY

Monitoring Requirement

4.1 According to Section 4.3.1.1 of EM&A Manual (AEIAR-174/2013), no water quality monitoring is required during the construction phase.

4.2 According to Section 4.3.1.5 of EM&A Manual (AEIAR-174/2013), compliance site audits are to be undertaken by the Engineer and ET and escorted by the Contractor to ensure that a valid discharge license has been issued by the EPD prior to the discharge of the effluent from the construction activities of the Project site. Monitoring of the quality of the treated effluent from the works areas should be carried out in accordance with the Water Pollution Control Ordinance (WPCO) license. The audit results reflect whether the effluent quality is in compliance with the discharge license requirements, the summaries of site audits are attached in **Appendix I**.

4.3 In the event of non-compliance, the responsibilities of the relevant parties are detailed in the Event / Action plan attached in **Appendix J**.

5 MARINE ECOLOGY

5.1 According to Section 5.3.1.1 of EM&A Manual (AEIAR-174/2013), ET will be required to undertake audit of good site practice for habitat protection as detailed below. The summaries of site audits are attached in **Appendix I**.

- Avoid damage and disturbance to the remaining and surrounding natural habitat;
- Ensure placement of equipment is within designated areas within the existing disturbed land;
- Ensure construction activities are restricted to within the proposed works boundary;
- Ensure spoil heaps are be covered at all times;
- Ensure that disturbed areas are reinstated immediately after completion of the works; and
- Ensure enhancement planting works undertaken.

6 FISHERIES

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

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

7 LANDSCAPE AND VISUAL

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

Table 7.1 Construction Phase Landscape and Visual Mitigation Measures

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

7.2 A specialist Landscape Sub-Contractor should be employed by the Contractor for the implementation of landscape construction works and subsequent maintenance operations during the establishment period. It is proposed that the planting works will be on-site and the planting

should be completed during the construction contract. The monitoring of the planting establishment should be undertaken for a 12-month period which could extend throughout the Contractor's one-year maintenance period, which will be within the first operational year of the Project.

7.3 All measures undertaken by both the Contractor and the specialist Landscape Sub-Contractor during the construction phase and first year of the operational phase shall be audited by a Registered Landscape Architect (RLA), as a member of the Environmental Team (ET), on a regular basis to ensure compliance with the intended aims of the measures. To fulfil the aforementioned requirements, on-site landscape and visual mitigation measures were audited by RLA in the reporting month.

7.4 According to Section 7.3.1.2 of the EM&A Manual (AEIAR-174/2013), site audits shall be undertaken at least once every two weeks throughout the construction period to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project.

7.5 The broad scope of the audit is detailed below but should also be undertaken with reference to the more specific checklist provided in **Table 7.2**. The summaries of site audits are attached in **Appendix I**:

- The extent of the agreed works areas should be regularly checked during the construction phase. Any trespass by the Contractor outside the limit of the works, including any damage to existing trees and soft landscape areas shall be prohibited;
- the progress of the engineering works should be regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken;
- all existing trees and vegetation within the study area which are not directly affected by the works are retained and protected;
- the methods of protecting existing vegetation proposed by the Contractor are acceptable and enforced;
- preparation, lifting transport and re-planting operations for any transplanted trees;
- all landscaping works are carried out in accordance with the specifications;
- the planting of new trees, shrubs, groundcover, climbers, ferns, grasses and other plans, together with the replanting of any transplanted trees are carried out properly and within the right season; and
- all necessary horticultural operations and replacement planting are undertaken throughout the Establishment Period to ensure the healthy establishment and growth of both transplanted trees and all newly established plants.

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

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

7.6 In the event of non-compliance, the responsibilities of the relevant parties are detailed in the Event / Action plan attached in **Appendix J**.

7.7 In the reporting month, no non-compliance of the landscape and visual mitigation measures was recorded by RLA.

8 CULTURAL HERITAGE

8.1 According to Section 8.3.1.1 of EM&A Manual (AEIAR-174/2013), as a precautionary measure, it is recommended that if any antiquity or supposed antiquity is discovered during the course of the excavation works undertaken by the Contractor, the discovery shall be reported to the AMO immediately and all necessary measures taken to preserve it.

8.2 According to Section 8.3.1.2 of EM&A Manual (AEIAR-174/2013), no EM&A is required during the construction and operational phase.

9 WASTE MANAGEMENT

9.1 According to Section 9.3.1.1 of EM&A Manual (AEIAR-174/2013), the effective management of waste arisings during the construction phase will be monitored through the site audit programme. Regular audits and site inspections should be carried out by the Engineer, ET and Contractor to ensure that the recommended good site practices and other mitigation measures are implemented by the Contractor. The summaries of site audits are attached in **Appendix I**.

9.2 According to Sections 9.3.1.3 and 9.3.1.4 of EM&A Manual (AEIAR-174/2013), documents including licenses, permits, disposal and recycling records should be reviewed and audited during site audits for the compliance with the legislation and contract requirements to ensure proper records are being maintained and procedures undertaken in accordance with the Waste Management Plan.

9.3 With reference to the relevant handing records of this Project, the quantities of different types of waste generated in the reporting month are summarized and presented in the **Appendix O**.

10 ENVIRONMENTAL AUDIT

Site Audits

10.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.

10.2 Site audits for each contract were conducted as follows.

- ED/2018/04 – Site audit was conducted on 05, 12, 19 & 26 September 2024 in the reporting month. Site inspection of the IEC was conducted on 12 September 2024. No non-compliances were observed during site audits.

- ED/2020/03 – Site audit was conducted on 05, 13, 19 & 26 September 2024 in the reporting month. Site inspection of the IEC was conducted on 13 September 2024. No non-compliance was observed during the site audits.

Implementation Status of Environmental Mitigation Measures

10.3 According to Environmental Permits, the approved EIA Reports (Register No.: AEIAR-174/2013 and AEIAR-173/2013), and the EM&A Manuals of the Project (AEIAR-174/2013 and AEIAR-173/2013), the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix K**.

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

Table 10.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	N/A	There was no observation in the reporting period.	N/A
Noise	26 September 2024	Acoustic sheets should be applied to the breaker head to minimize noise impact.	To be followed up in the next report month.
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	05 September	Accumulated general refuse was observed stacking at improper storage area.	The accumulated general refuse has been removed.

Parameters	Date	Observations and Recommendations	Follow-up
	2024		
	26 September 2024	Drip tray should be provided to chemical containers / fuel drums to avoid potential leakage.	To be followed up in the next report month.
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

Implementation Status of Event and Action Plans

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

Air Quality Monitoring
- No Action and no Limit Level exceedance for 24-hour TSP monitoring was recorded.

Construction Noise Monitoring
- No Action and Limit Level exceedance was recorded in the reporting month.

Landscape and Visual
- No landscape and visual non-conformity were recorded.

Status of Required Submission under Environmental Permit

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

Table 10.2 Status of Required Submission under Environmental Permit

EP Condition	Submission	Submission Date
EP-451/2013		
Condition 2.3	Management Organization of Main Construction Companies for ED/2018/04	20 January 2020
Condition 2.3	Management Organization of Main Construction Companies for ED/2020/03	21 March 2023
Condition 2.4	Design Drawing of the Project	20 January 2020
Condition 2.5	Landscape Mitigation Plan (Rev. F)	25 November 2022
Condition 2.10 (a)	Supplementary Contamination Assessment Plan	18 December 2015

EP Condition	Submission	Submission Date
Condition 2.10 (b)	Supplementary Contamination Assessment Report	6 December 2016
Condition 3.3	Updated Baseline Monitoring Report	3 November 2020
Condition 3.4	Monthly EM&A Report (August 2024) for ED/2018/04 and ED/2020/03	13 September 2024

11 ENVIRONMENTAL NON-CONFORMANCE

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

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

Summary of Exceedance

11.2 The summary of exceedance record in the reporting month is shown in **Appendix M**.

11.3 No non-conformity was recorded for landscape and visual inspections conducted in the reporting month.

12 FUTURE KEY ISSUES

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

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

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

Contract No. and Project Title	Site Activities (October 2024)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	1. WVB – ABWF works 2. WVB – E&M works 3. WVB – External works 4. DPR – GRC panel subframe installation 5. SUS – Skin wall 6. SUS – Fireboard 7. SUS – E&M brackets 8. SUS – E&M works 9. Launching Shaft / Cut & Cover – RC Structure	• Wheel washing bay at site exits; • Temporary noise barriers for PMEs; • Sedimentation tank for settling muddy water; and • Make sure open stockpiles are covered during rainstorm.

Contract No. and Project Title	Site Activities (October 2024)	Key Environmental Issues
	10. Launching Shaft / Cut & Cover – Backfilling 11. TSS – WB TBM Tunnelling 12. TSS – EB TBM Tunnelling 13. TSS – WB internal structure 14. TSS – EB internal structure up to CP22 15. CP – TSS WB Tympanum construction	
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works(1)	1. Mock-up inside tunnel – cable containment, ALCS, CCTV, VD 2. Mock-up installation inside Service Gallery – PA speaker 3. Simulation test of pa speaker at WVB 4. Material delivery: Power cable, fibre cable	• The waste should be removed regularly and litter free. • The storage area should be kept tidy. • Temporary noise barriers for PMEs.

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

Monitoring Schedule

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

13 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

13.1 This is the 55th Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-174/2013) and the requirement under EP.

Air Quality Monitoring

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

Construction Noise Monitoring

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

13.4 No Action Level exceedance was recorded in the reporting month.

Site Audit

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

13.6 Four (4) ET joint environmental site inspections were conducted for the Contact No. ED/2020/03 in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

13.7 Two (2) environmental complaints were received in the reporting month. No notifications of summons and successful prosecutions were received in the reporting month.

Recommendations

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

ED/2018/04

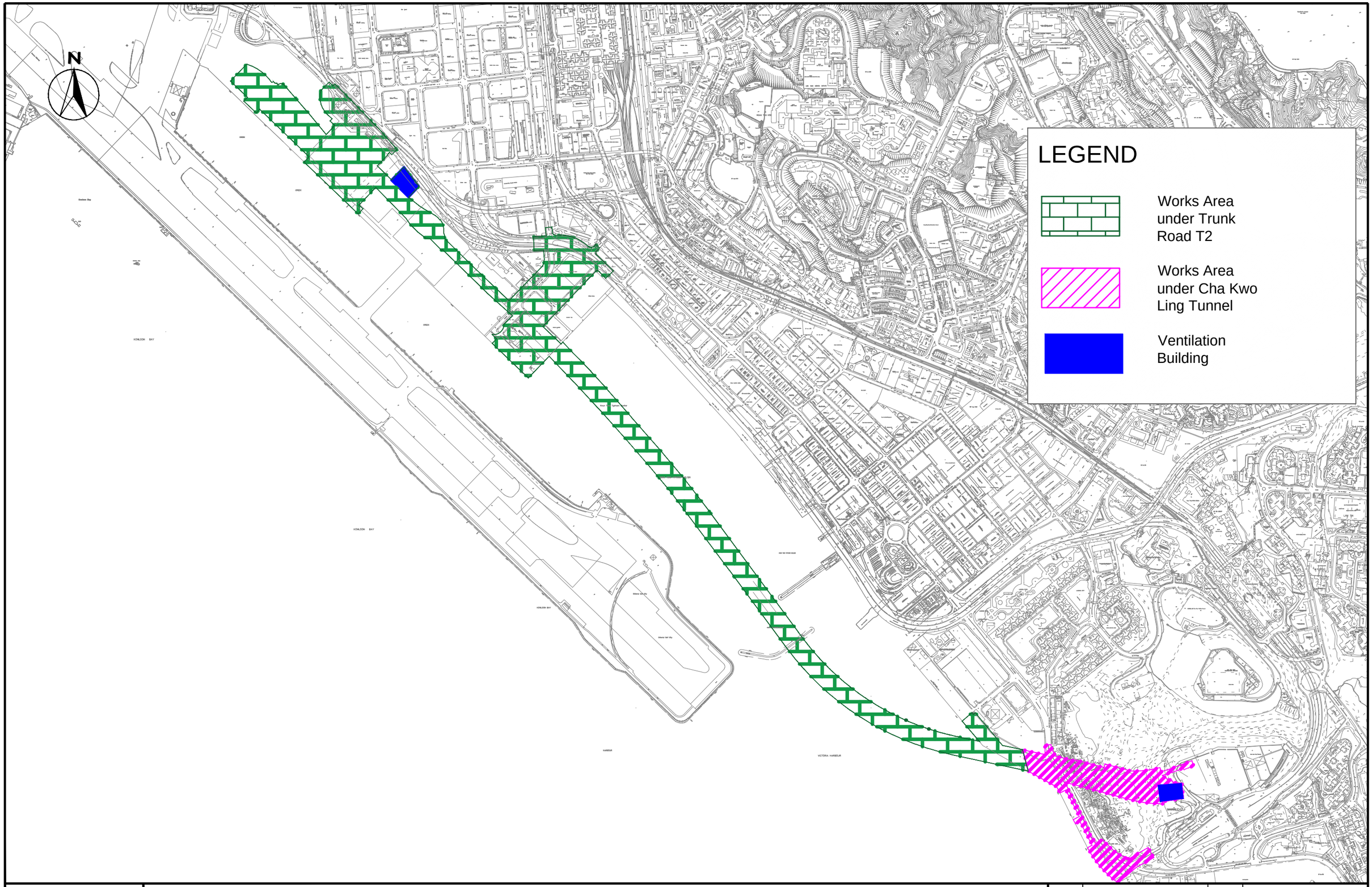
Construction Noise Impact

- Acoustic sheets should be applied to the regulated PME(s) to minimize noise impact.

Waste / Chemical Management

- General refuse should be removed timely.
- The drip tray should be provided for the chemical container / oil drums to avoid the chemical leakage and remove the used chemical containers / oil drums regularly.

FIGURES

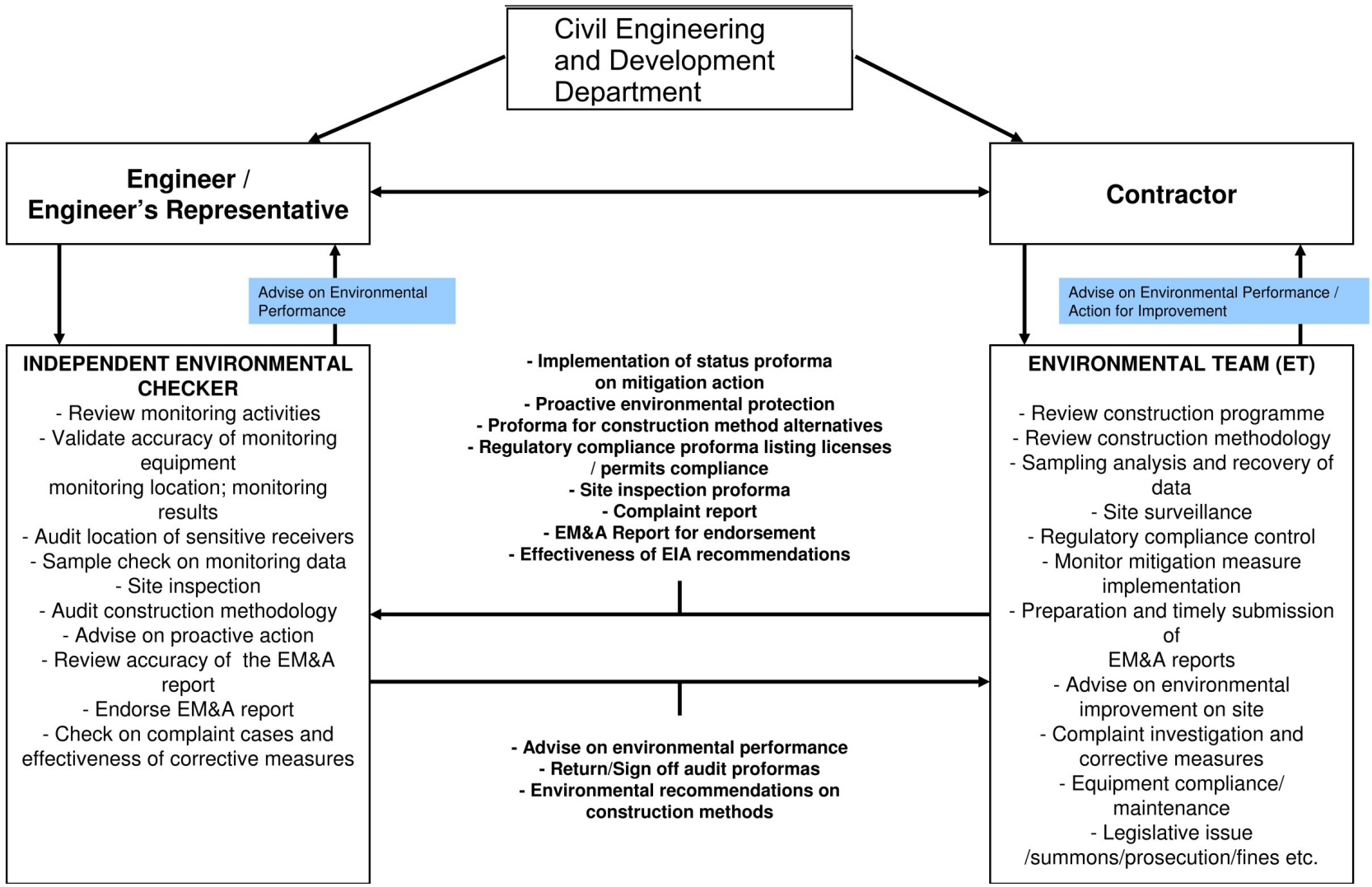


CINOTECH
Cinotech Consultants Limited

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

Site Layout Plan

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



Rev.	Description	Date

Drawing title

PROJECT ORGANISATION AND LINES OF COMMUNICATION

Original Size A3

Scale N.T.S

Date 18/JAN/2013

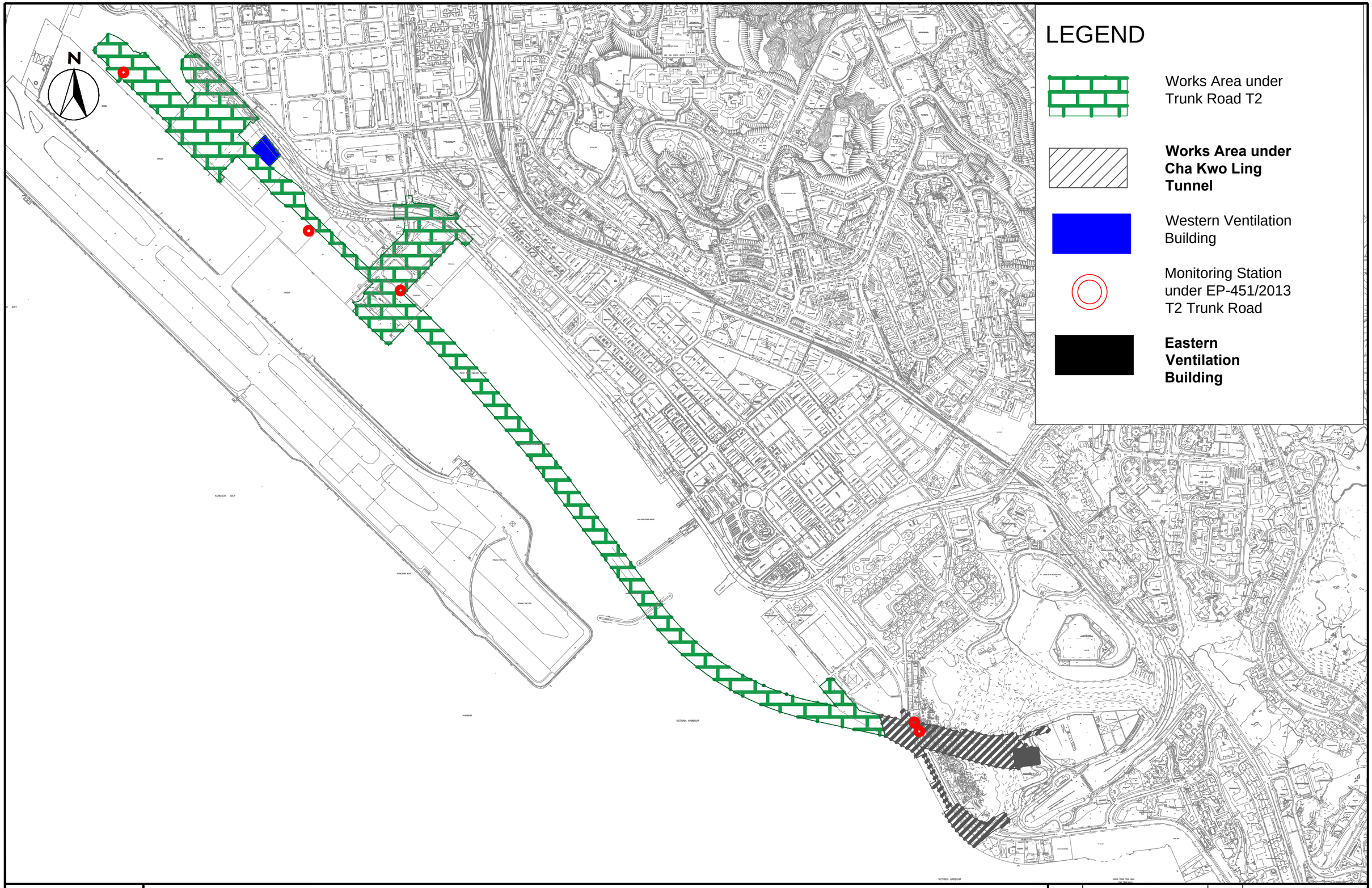
File name

Drawing No. FIGURE 1.2

Rev. –

PLOT DRV: K:\91164 Trunk Road T2\Cad Admin\A3_colour.plt
PRINTED BY: kitchan 1/17/2013 11:33:36 AM

CAD FILE : K:\91164 Trunk Road T2\Report\Draft EIA Report\Figure 6.1.dgn



CINOTECH
Cinotech Consultants Limited

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

Monitoring Station of the Project

SCALE	1:10000@A3	DATE	June 21
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No. Fig 2	REV -

N

KTD2d

Western
Ventilation
Building

KTD1

KER1

LEGEND

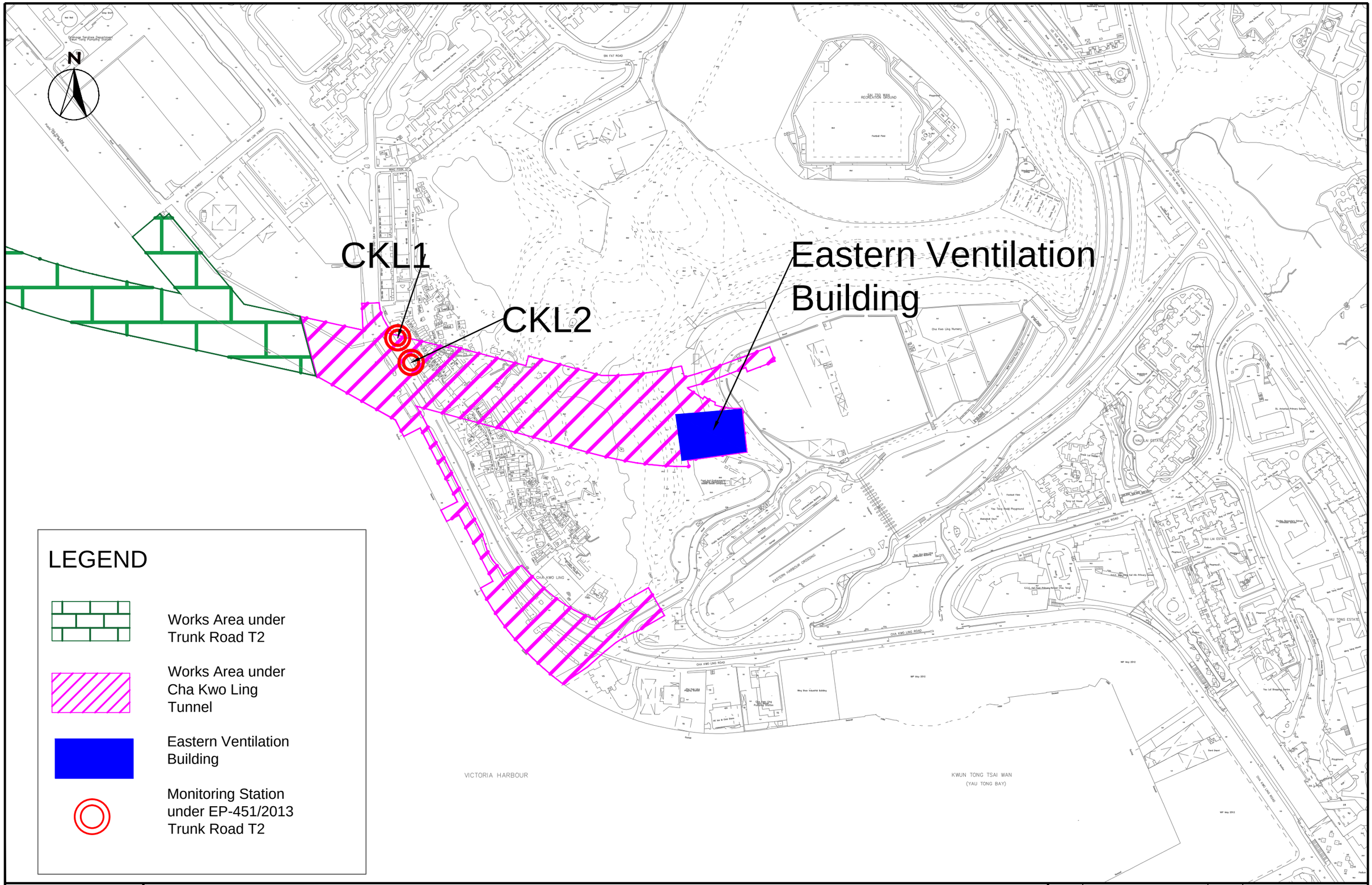
- Works Area under Trunk Road T2
- Western Ventilation Building
- Impact Monitoring Station under EP-451/2013 Trunk Road T2

CINOTECH
Cinotech Consultants Limited

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

Monitoring Station at South Apron of Former Kai Tak Airport

SCALE	1:4000@A3	DATE	Jun 21
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No.	Fig 2a
		REV	-



LEGEND

- Works Area under Trunk Road T2
- Works Area under Cha Kwo Ling Tunnel
- Eastern Ventilation Building
- Monitoring Station under EP-451/2013 Trunk Road T2

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

Monitoring Station at Cha Kwo Ling

SCALE	1:4000@A3	DATE	March 20
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No.	Fig 2b
		REV	-

APPENDIX A
ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

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

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

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

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

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

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

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

APPENDIX B
ENVIRONMENTAL MONITORING SCHEDULES

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

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

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

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

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

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

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

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

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

Air Quality Monitoring Station

24-hr TSP

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

Noise Monitoring Station

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

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

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

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

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

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

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

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

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

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

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

Air Quality Monitoring Station

24-hr TSP

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

Noise Monitoring Station

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

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

APPENDIX C
COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING

Certificate of Calibration - Wind Monitoring Station

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

1. Performance check of Wind Speed

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

2. Performance check of Wind Direction

Wind Direction (^{o})		Difference D (^{o})
Wind Direction Reading (W1)	Marine Compass Value (W2)	D = W1 - W2
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

Test Specification:

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

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

Calibrated by: _____ Wong Shing Kwai

Approved by: _____ Henry Leung

TISCH Environmental

RECALIBRATION DUE DATE:
January 15, 2025

Certificate of Calibration

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

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

Data Tabulation

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

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

For subsequent flow rate calculations:

Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$

Qa= $1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$

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

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

RECALIBRATION
US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

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

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/18/027

Project No. CKL 1 - Flat 121 Cha Kwo Ling Village

Date: 4-Jul-24 Next Due Date: 4-Sep-24 Operator: SK

Equipment No.: A-01-18 Model No.: TE 5170 Serial No. 0723

Ambient Condition			
Temperature, Ta (K)	303.2	Pressure, Pa (mmHg)	758.9

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 = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	14-Jan-25	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

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Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.6	3.65	61.97	9.4	3.04
2	10.2	3.16	53.78	7.3	2.68
3	8.5	2.89	49.17	5.5	2.32
4	6.2	2.47	42.12	3.6	1.88
5	3.6	1.88	32.29	2.0	1.40

By Linear Regression of Y on X

Slope , mw = **0.0569** **Intercept, bw :** **-0.4586**

Correlation coefficient* = **0.9968**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.02**

Remarks:

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

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

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/18/028

Project No. CKL 1 - Flat 121 Cha Kwo Ling Village

Date: 4-Sep-24 Next Due Date: 4-Nov-24 Operator: SK

Equipment No.: A-01-18 Model No.: TE 5170 Serial No. 0723

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

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

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Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.7	3.65	61.96	9.3	3.01
2	10.3	3.17	53.84	7.2	2.65
3	8.6	2.89	49.27	5.4	2.29
4	6.3	2.48	42.29	3.5	1.85
5	3.7	1.90	32.60	1.9	1.36

By Linear Regression of Y on X

Slope , mw = **0.0579** **Intercept, bw :** **-0.5491**

Correlation coefficient* = **0.9969**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **3.87**

Remarks:

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

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

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/55/027

Project No. CKL 2 - Flat 103 Cha Kwo Ling Village

Date: 4-Jul-24 Next Due Date: 4-Sep-24 Operator: SK

Equipment No.: A-01-55 Model No.: TE 5170 Serial No. 1956

Ambient Condition			
Temperature, Ta (K)	303.2	Pressure, Pa (mmHg)	758.9

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 = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	14-Jan-25	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

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Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.5	3.64	61.75	9.5	3.05
2	11.3	3.33	56.57	7.5	2.71
3	9.4	3.04	51.67	5.9	2.41
4	5.5	2.32	39.72	3.1	1.74
5	3.6	1.88	32.29	2.1	1.44

By Linear Regression of Y on X

Slope , mw = **0.0551** **Intercept, bw =** **-0.3959**

Correlation coefficient* = **0.9974**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **3.97**

Remarks:

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

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

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/55/028

Project No. CKL 2 - Flat 103 Cha Kwo Ling Village

Date: 4-Sep-24 Next Due Date: 4-Nov-24 Operator: SK

Equipment No.: A-01-55 Model No.: TE 5170 Serial No. 1956

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

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

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Calibration of TSP Sampler

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

By Linear Regression of Y on X

Slope , mw = **0.0562** **Intercept, bw =** **-0.4760**

Correlation coefficient* = **0.9965**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **3.87**

Remarks:

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

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

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/04/0025

Project No. KER 1 - Future Residential Development at Kerry Godown

Date: 10-Jul-24 Next Due Date: 10-Sep-24 Operator: SK

Equipment No.: A-01-04 Model No.: TE 5170 Serial No. 10595

Ambient Condition			
Temperature, Ta (K)	303.6	Pressure, Pa (mmHg)	756.5

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 = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	14-Jan-25	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

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Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.4	3.62	61.39	9.0	2.97
2	10.6	3.22	54.69	7.1	2.63
3	8.6	2.90	49.35	5.3	2.28
4	5.5	2.32	39.63	3.4	1.82
5	3.7	1.90	32.66	2.1	1.43

By Linear Regression of Y on X

Slope , mw = **0.0533** **Intercept, bw =** **-0.3066**

Correlation coefficient* = **0.9989**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.03**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 10-Jul-24

Checked by: Henry Leung Signature: Date: 10-Jul-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/04/0026

Project No. KER 1 - Future Residential Development at Kerry Godown

Date: 11-Sep-24 Next Due Date: 12-Nov-24 Operator: SK

Equipment No.: A-01-04 Model No.: TE 5170 Serial No. 10595

Ambient Condition			
Temperature, Ta (K)	303.4	Pressure, Pa (mmHg)	756.1

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 = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	14-Jan-25	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

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Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.1	3.58	60.71	8.8	2.93
2	10.7	3.23	54.95	7.0	2.62
3	8.7	2.92	49.63	5.2	2.25
4	5.6	2.34	39.98	3.3	1.80
5	3.8	1.93	33.08	2.0	1.40

By Linear Regression of Y on X

Slope , mw = **0.0551** **Intercept, bw =** **-0.4284**

Correlation coefficient* = **0.9988**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **3.86**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 11-Sep-24

Checked by: Henry Leung Signature: Date: 11-Sep-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/44/0024

Project No. KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

Date: 10-Jul-24 Next Due Date: 10-Sep-24 Operator: SK

Equipment No.: A-01-44 Model No.: TE-5170 Serial No. 1316

Ambient Condition			
Temperature, Ta (K)	303.6	Pressure, Pa (mmHg)	756.5

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 = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	14-Jan-25	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

.

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.8	3.67	62.28	9.7	3.08
2	11.2	3.31	56.19	7.5	2.71
3	9.1	2.98	50.74	5.7	2.36
4	6.4	2.50	42.68	3.9	1.95
5	3.8	1.93	33.08	2.2	1.47

.

By Linear Regression of Y on X

Slope , mw = **0.0550** **Intercept, bw =** **-0.3819**

Correlation coefficient* = **0.9986**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.02**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 10-Jul-24

Checked by: Henry Leung Signature: Date: 10-Jul-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/44/0025

Project No. KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

Date: 11-Sep-24 Next Due Date: 11-Nov-24 Operator: SK

Equipment No.: A-01-44 Model No.: TE-5170 Serial No. 1316

Ambient Condition			
Temperature, Ta (K)	303.4	Pressure, Pa (mmHg)	756.1

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 = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	14-Jan-25	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

.

Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.9	3.69	62.51	9.6	3.06
2	11.3	3.32	56.44	7.4	2.69
3	9.2	3.00	51.01	5.5	2.32
4	6.5	2.52	43.01	3.8	1.93
5	3.8	1.93	33.08	2.1	1.43

.

By Linear Regression of Y on X

Slope , mw = **0.0552** **Intercept, bw =** **-0.4294**

Correlation coefficient* = **0.9975**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **3.86**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 11-Sep-24

Checked by: Henry Leung Signature: Date: 11-Sep-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/41/0025

Project No. KTD 2D - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

Date: 10-Jul-24 Next Due Date: 10-Sep-24 Operator: SK

Equipment No.: A-01-41 Model No.: TE 5170 Serial No. 5280

Ambient Condition			
Temperature, Ta (K)	303.6	Pressure, Pa (mmHg)	756.5

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 = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	14-Jan-25	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

.

Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	14.0	3.70	62.73	9.6	3.06
2	11.5	3.35	56.93	8.4	2.86
3	9.5	3.05	51.82	6.4	2.50
4	7.0	2.62	44.60	4.5	2.10
5	3.8	1.93	33.08	2.2	1.47

By Linear Regression of Y on X

Slope , mw = **0.0554** **Intercept, bw =** **-0.3617**

Correlation coefficient* = **0.9975**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.18**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 10-Jul-24

Checked by: Henry Leung Signature: Date: 10-Jul-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/41/0025

Project No. KTD 2D - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

Date: 11-Sep-24 Next Due Date: 11-Nov-24 Operator: SK

Equipment No.: A-01-41 Model No.: TE 5170 Serial No. 5280

Ambient Condition			
Temperature, Ta (K)	303.4	Pressure, Pa (mmHg)	756.1

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 = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	14-Jan-25	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

.

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	14.2	3.73	63.17	9.5	3.05
2	11.4	3.34	56.69	8.2	2.83
3	9.6	3.06	52.09	6.2	2.46
4	7.0	2.62	44.60	4.4	2.07
5	3.9	1.95	33.51	2.1	1.43

By Linear Regression of Y on X

Slope , mw = **0.0558** **Intercept, bw =** **-0.4239**

Correlation coefficient* = **0.9964**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.00**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 11-Sep-24

Checked by: Henry Leung Signature: Date: 11-Sep-24

APPENDIX D
WEATHER INFORMATION

Appendix D - Weather Conditions During Impact Monitoring Period

Date	Mean Air Temperature (°C)[1]	Mean Relative Humidity (%)[2]	Precipitation (mm)[3]
1-Sep-24	30.1	82	Trace
2-Sep-24	30.6	78	Trace
3-Sep-24	30.2	78	35.5
4-Sep-24	29.7	75	0.6
5-Sep-24	30.4	71	21.5
6-Sep-24	27.6	90	84.1
7-Sep-24	29.2	88	5.8
8-Sep-24	28.2	91	37.8
9-Sep-24	27.8	85	13.0
10-Sep-24	29.4	77	0.0
11-Sep-24	30.4	76	0.0
12-Sep-24	29.8	77	0.0
13-Sep-24	30.4	73	0.1
14-Sep-24	29.2	76	57.2
15-Sep-24	29.3	76	2.4
16-Sep-24	28.5	81	27.4
17-Sep-24	30.8	74	16.0
18-Sep-24	29.7	73	Trace
19-Sep-24	30.2	75	0.0
20-Sep-24	29.8	79	4.6
21-Sep-24	27.7	90	72.9
22-Sep-24	27.1	88	32.1
23-Sep-24	25.7	90	24.9
24-Sep-24	26.7	91	75.0
25-Sep-24	28.5	83	5.4
26-Sep-24	29.4	78	0.0
27-Sep-24	29.9	76	0.0
28-Sep-24	29.1	80	1.3
29-Sep-24	29.2	76	3.3
30-Sep-24	30.5	71	0.0

(Reporting Month: September 2024)

Remarks:

Source - Hong Kong Observatory

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

September 2024			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
1 Sep 2024	12:00 AM	SSE	0.1
1 Sep 2024	1:00 AM	SSW	0.3
1 Sep 2024	2:00 AM	SSW	0.0
1 Sep 2024	3:00 AM	SSW	0.4
1 Sep 2024	4:00 AM	SSW	0.2
1 Sep 2024	5:00 AM	S	0.1
1 Sep 2024	6:00 AM	S	0.1
1 Sep 2024	7:00 AM	SSW	0.1
1 Sep 2024	8:00 AM	SSW	1.4
1 Sep 2024	9:00 AM	SSW	1.0
1 Sep 2024	10:00 AM	SW	0.9
1 Sep 2024	11:00 AM	SSW	1.4
1 Sep 2024	12:00 PM	SE	0.7
1 Sep 2024	1:00 PM	S	1.0
1 Sep 2024	2:00 PM	WSW	1.9
1 Sep 2024	3:00 PM	WSW	1.6
1 Sep 2024	4:00 PM	SSW	1.5
1 Sep 2024	5:00 PM	WSW	1.2
1 Sep 2024	6:00 PM	WSW	0.8
1 Sep 2024	7:00 PM	S	0.6
1 Sep 2024	8:00 PM	SSW	0.5
1 Sep 2024	9:00 PM	SSE	0.4
1 Sep 2024	10:00 PM	S	0.6
1 Sep 2024	11:00 PM	S	0.3
2 Sep 2024	12:00 AM	SSW	0.4
2 Sep 2024	1:00 AM	S	0.4
2 Sep 2024	2:00 AM	S	0.4
2 Sep 2024	3:00 AM	SSW	0.6
2 Sep 2024	4:00 AM	S	0.6
2 Sep 2024	5:00 AM	SSE	0.4
2 Sep 2024	6:00 AM	SSE	0.3
2 Sep 2024	7:00 AM	S	0.4
2 Sep 2024	8:00 AM	SSW	0.7
2 Sep 2024	9:00 AM	SE	1.2
2 Sep 2024	10:00 AM	SSE	1.1
2 Sep 2024	11:00 AM	SSE	1.5
2 Sep 2024	12:00 PM	SSE	1.4
2 Sep 2024	1:00 PM	S	1.3
2 Sep 2024	2:00 PM	WSW	1.4
2 Sep 2024	3:00 PM	WSW	1.4
2 Sep 2024	4:00 PM	SSW	1.3
2 Sep 2024	5:00 PM	W	1.2
2 Sep 2024	6:00 PM	W	1.3
2 Sep 2024	7:00 PM	SSE	0.9
2 Sep 2024	8:00 PM	S	0.8
2 Sep 2024	9:00 PM	W	1.4
2 Sep 2024	10:00 PM	SSE	0.7
2 Sep 2024	11:00 PM	SSE	0.8
3 Sep 2024	12:00 AM	S	0.7
3 Sep 2024	1:00 AM	WSW	1.0
3 Sep 2024	2:00 AM	S	1.1
3 Sep 2024	3:00 AM	SSE	0.9
3 Sep 2024	4:00 AM	SSE	0.6
3 Sep 2024	5:00 AM	S	0.6
3 Sep 2024	6:00 AM	S	0.3
3 Sep 2024	7:00 AM	SSE	0.8
3 Sep 2024	8:00 AM	S	1.3

September 2024			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
3 Sep 2024	9:00 AM	S	1.0
3 Sep 2024	10:00 AM	S	1.2
3 Sep 2024	11:00 AM	S	2.0
3 Sep 2024	12:00 PM	S	1.8
3 Sep 2024	1:00 PM	S	1.8
3 Sep 2024	2:00 PM	SSE	1.4
3 Sep 2024	3:00 PM	S	1.4
3 Sep 2024	4:00 PM	WSW	1.6
3 Sep 2024	5:00 PM	SE	1.1
3 Sep 2024	6:00 PM	SE	1.3
3 Sep 2024	7:00 PM	SE	0.9
3 Sep 2024	8:00 PM	S	0.5
3 Sep 2024	9:00 PM	S	0.9
3 Sep 2024	10:00 PM	SSW	2.2
3 Sep 2024	11:00 PM	S	1.1
4 Sep 2024	12:00 AM	S	1.1
4 Sep 2024	1:00 AM	S	0.7
4 Sep 2024	2:00 AM	S	0.7
4 Sep 2024	3:00 AM	S	0.9
4 Sep 2024	4:00 AM	S	0.5
4 Sep 2024	5:00 AM	S	0.4
4 Sep 2024	6:00 AM	S	0.5
4 Sep 2024	7:00 AM	SSE	0.6
4 Sep 2024	8:00 AM	S	0.9
4 Sep 2024	9:00 AM	S	1.5
4 Sep 2024	10:00 AM	S	1.5
4 Sep 2024	11:00 AM	S	1.9
4 Sep 2024	12:00 PM	S	1.9
4 Sep 2024	1:00 PM	SSE	1.8
4 Sep 2024	2:00 PM	SE	1.3
4 Sep 2024	3:00 PM	SSE	1.4
4 Sep 2024	4:00 PM	SSE	1.4
4 Sep 2024	5:00 PM	SW	1.2
4 Sep 2024	6:00 PM	S	1.4
4 Sep 2024	7:00 PM	SSW	1.4
4 Sep 2024	8:00 PM	SSW	1.4
4 Sep 2024	9:00 PM	S	0.5
4 Sep 2024	10:00 PM	SW	0.7
4 Sep 2024	11:00 PM	S	0.6
5 Sep 2024	12:00 AM	SSW	0.5
5 Sep 2024	1:00 AM	SSE	1.0
5 Sep 2024	2:00 AM	S	0.3
5 Sep 2024	3:00 AM	S	0.2
5 Sep 2024	4:00 AM	SSE	0.5
5 Sep 2024	5:00 AM	S	1.0
5 Sep 2024	6:00 AM	S	0.8
5 Sep 2024	7:00 AM	S	1.3
5 Sep 2024	8:00 AM	SSE	1.8
5 Sep 2024	9:00 AM	SSW	2.6
5 Sep 2024	10:00 AM	SSW	2.3
5 Sep 2024	11:00 AM	S	2.8
5 Sep 2024	12:00 PM	S	3.1
5 Sep 2024	1:00 PM	SSW	4.0
5 Sep 2024	2:00 PM	S	3.5
5 Sep 2024	3:00 PM	SSW	2.9
5 Sep 2024	4:00 PM	SSW	3.1
5 Sep 2024	5:00 PM	SSW	2.5

September 2024			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
5 Sep 2024	6:00 PM	SSW	2.9
5 Sep 2024	7:00 PM	S	2.4
5 Sep 2024	8:00 PM	S	2.8
5 Sep 2024	9:00 PM	S	3.1
5 Sep 2024	10:00 PM	SW	2.9
5 Sep 2024	11:00 PM	SSW	2.9
6 Sep 2024	12:00 AM	SSW	3.1
6 Sep 2024	1:00 AM	SSW	2.3
6 Sep 2024	2:00 AM	SSW	2.7
6 Sep 2024	3:00 AM	SSW	2.6
6 Sep 2024	4:00 AM	SSW	2.6
6 Sep 2024	5:00 AM	SSW	2.6
6 Sep 2024	6:00 AM	SSW	2.7
6 Sep 2024	7:00 AM	SSW	2.8
6 Sep 2024	8:00 AM	SSW	2.3
6 Sep 2024	9:00 AM	SSW	3.4
6 Sep 2024	10:00 AM	SSW	2.3
6 Sep 2024	11:00 AM	SSW	2.1
6 Sep 2024	12:00 PM	SSW	2.6
6 Sep 2024	1:00 PM	SSW	2.4
6 Sep 2024	2:00 PM	SSW	2.0
6 Sep 2024	3:00 PM	SW	2.2
6 Sep 2024	4:00 PM	SSW	1.8
6 Sep 2024	5:00 PM	SSW	1.1
6 Sep 2024	6:00 PM	S	1.5
6 Sep 2024	7:00 PM	SW	2.1
6 Sep 2024	8:00 PM	S	1.5
6 Sep 2024	9:00 PM	SSW	1.4
6 Sep 2024	10:00 PM	SW	1.9
6 Sep 2024	11:00 PM	SSW	1.3
7 Sep 2024	12:00 AM	N	0.0
7 Sep 2024	1:00 AM	N	0.0
7 Sep 2024	2:00 AM	N	0.0
7 Sep 2024	3:00 AM	N	0.0
7 Sep 2024	4:00 AM	N	0.0
7 Sep 2024	5:00 AM	N	0.0
7 Sep 2024	6:00 AM	N	0.0
7 Sep 2024	7:00 AM	N	0.0
7 Sep 2024	8:00 AM	N	0.0
7 Sep 2024	9:00 AM	N	0.0
7 Sep 2024	10:00 AM	N	0.0
7 Sep 2024	11:00 AM	N	0.0
7 Sep 2024	12:00 PM	WNW	0.9
7 Sep 2024	1:00 PM	W	3.0
7 Sep 2024	2:00 PM	W	2.7
7 Sep 2024	3:00 PM	W	2.8
7 Sep 2024	4:00 PM	W	2.2
7 Sep 2024	5:00 PM	W	1.9
7 Sep 2024	6:00 PM	SW	1.2
7 Sep 2024	7:00 PM	SW	1.3
7 Sep 2024	8:00 PM	SSW	1.5
7 Sep 2024	9:00 PM	SW	1.8
7 Sep 2024	10:00 PM	SW	1.6
7 Sep 2024	11:00 PM	SSW	1.0
8 Sep 2024	12:00 AM	SSW	0.8
8 Sep 2024	1:00 AM	SSE	1.0
8 Sep 2024	2:00 AM	SSE	1.1

September 2024			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
8 Sep 2024	3:00 AM	SSE	1.1
8 Sep 2024	4:00 AM	S	0.8
8 Sep 2024	5:00 AM	SSE	0.8
8 Sep 2024	6:00 AM	SSE	0.8
8 Sep 2024	7:00 AM	SSE	0.7
8 Sep 2024	8:00 AM	S	1.0
8 Sep 2024	9:00 AM	SSE	0.9
8 Sep 2024	10:00 AM	S	1.7
8 Sep 2024	11:00 AM	SSW	1.9
8 Sep 2024	12:00 PM	SSW	1.2
8 Sep 2024	1:00 PM	SSW	1.3
8 Sep 2024	2:00 PM	SW	0.8
8 Sep 2024	3:00 PM	WSW	1.2
8 Sep 2024	4:00 PM	SW	1.0
8 Sep 2024	5:00 PM	SW	1.1
8 Sep 2024	6:00 PM	SW	1.2
8 Sep 2024	7:00 PM	SSW	0.6
8 Sep 2024	8:00 PM	S	0.5
8 Sep 2024	9:00 PM	S	0.7
8 Sep 2024	10:00 PM	SW	0.6
8 Sep 2024	11:00 PM	SSW	0.5
9 Sep 2024	12:00 AM	SSW	0.6
9 Sep 2024	1:00 AM	S	0.8
9 Sep 2024	2:00 AM	S	0.9
9 Sep 2024	3:00 AM	S	0.9
9 Sep 2024	4:00 AM	S	0.5
9 Sep 2024	5:00 AM	S	0.3
9 Sep 2024	6:00 AM	SSW	0.4
9 Sep 2024	7:00 AM	SSE	0.8
9 Sep 2024	8:00 AM	S	0.9
9 Sep 2024	9:00 AM	S	1.2
9 Sep 2024	10:00 AM	SW	0.9
9 Sep 2024	11:00 AM	WSW	1.9
9 Sep 2024	12:00 PM	SW	1.7
9 Sep 2024	1:00 PM	SW	1.7
9 Sep 2024	2:00 PM	SW	1.4
9 Sep 2024	3:00 PM	SSW	0.9
9 Sep 2024	4:00 PM	SSE	0.9
9 Sep 2024	5:00 PM	S	1.2
9 Sep 2024	6:00 PM	SW	1.0
9 Sep 2024	7:00 PM	SE	0.3
9 Sep 2024	8:00 PM	SSW	0.9
9 Sep 2024	9:00 PM	S	0.6
9 Sep 2024	10:00 PM	S	0.5
9 Sep 2024	11:00 PM	S	0.5
10 Sep 2024	12:00 AM	S	0.4
10 Sep 2024	1:00 AM	SSE	0.6
10 Sep 2024	2:00 AM	S	0.1
10 Sep 2024	3:00 AM	SSE	0.3
10 Sep 2024	4:00 AM	S	0.6
10 Sep 2024	5:00 AM	S	0.5
10 Sep 2024	6:00 AM	SSE	0.6
10 Sep 2024	7:00 AM	S	0.9
10 Sep 2024	8:00 AM	SW	1.5
10 Sep 2024	9:00 AM	S	2.1
10 Sep 2024	10:00 AM	SSW	1.6
10 Sep 2024	11:00 AM	SSW	1.4

September 2024			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
10 Sep 2024	12:00 PM	SSE	1.2
10 Sep 2024	1:00 PM	S	1.2
10 Sep 2024	2:00 PM	SSW	1.0
10 Sep 2024	3:00 PM	WSW	1.7
10 Sep 2024	4:00 PM	SSE	1.6
10 Sep 2024	5:00 PM	SSW	1.3
10 Sep 2024	6:00 PM	SSE	0.9
10 Sep 2024	7:00 PM	S	0.6
10 Sep 2024	8:00 PM	W	1.4
10 Sep 2024	9:00 PM	WSW	0.9
10 Sep 2024	10:00 PM	SSW	0.4
10 Sep 2024	11:00 PM	S	0.2
11 Sep 2024	12:00 AM	S	0.3
11 Sep 2024	1:00 AM	S	0.6
11 Sep 2024	2:00 AM	S	0.5
11 Sep 2024	3:00 AM	SSE	0.5
11 Sep 2024	4:00 AM	S	0.2
11 Sep 2024	5:00 AM	S	0.0
11 Sep 2024	6:00 AM	S	0.5
11 Sep 2024	7:00 AM	SSE	0.8
11 Sep 2024	8:00 AM	S	1.0
11 Sep 2024	9:00 AM	SSW	1.1
11 Sep 2024	10:00 AM	SSW	1.1
11 Sep 2024	11:00 AM	S	1.0
11 Sep 2024	12:00 PM	S	1.1
11 Sep 2024	1:00 PM	S	1.3
11 Sep 2024	2:00 PM	SSE	1.2
11 Sep 2024	3:00 PM	S	1.3
11 Sep 2024	4:00 PM	SSE	0.9
11 Sep 2024	5:00 PM	SE	1.1
11 Sep 2024	6:00 PM	SSE	1.0
11 Sep 2024	7:00 PM	S	0.7
11 Sep 2024	8:00 PM	S	0.4
11 Sep 2024	9:00 PM	S	0.6
11 Sep 2024	10:00 PM	SSE	0.6
11 Sep 2024	11:00 PM	SSE	0.5
12 Sep 2024	12:00 AM	SSE	0.7
12 Sep 2024	1:00 AM	S	0.5
12 Sep 2024	2:00 AM	SSE	0.7
12 Sep 2024	3:00 AM	S	0.3
12 Sep 2024	4:00 AM	SSE	0.2
12 Sep 2024	5:00 AM	SSE	0.3
12 Sep 2024	6:00 AM	SSE	0.2
12 Sep 2024	7:00 AM	SSW	0.6
12 Sep 2024	8:00 AM	WSW	1.2
12 Sep 2024	9:00 AM	W	1.6
12 Sep 2024	10:00 AM	S	1.0
12 Sep 2024	11:00 AM	SSE	1.1
12 Sep 2024	12:00 PM	S	1.0
12 Sep 2024	1:00 PM	SSE	1.0
12 Sep 2024	2:00 PM	SE	1.0
12 Sep 2024	3:00 PM	N	0.0
12 Sep 2024	4:00 PM	N	0.0
12 Sep 2024	5:00 PM	N	0.0
12 Sep 2024	6:00 PM	N	0.0
12 Sep 2024	7:00 PM	S	0.1
12 Sep 2024	8:00 PM	SSW	0.0

September 2024			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
12 Sep 2024	9:00 PM	S	0.2
12 Sep 2024	10:00 PM	S	0.0
12 Sep 2024	11:00 PM	S	0.0
13 Sep 2024	12:00 AM	SE	0.0
13 Sep 2024	1:00 AM	SE	0.0
13 Sep 2024	2:00 AM	S	0.1
13 Sep 2024	3:00 AM	SE	0.0
13 Sep 2024	4:00 AM	SE	0.0
13 Sep 2024	5:00 AM	N	0.3
13 Sep 2024	6:00 AM	N	0.6
13 Sep 2024	7:00 AM	N	0.1
13 Sep 2024	8:00 AM	N	0.2
13 Sep 2024	9:00 AM	N	0.2
13 Sep 2024	10:00 AM	S	0.0
13 Sep 2024	11:00 AM	SSW	0.0
13 Sep 2024	12:00 PM	S	0.0
13 Sep 2024	1:00 PM	SSW	0.0
13 Sep 2024	2:00 PM	SSW	0.3
13 Sep 2024	3:00 PM	SSW	0.1
13 Sep 2024	4:00 PM	SW	0.0
13 Sep 2024	5:00 PM	SSW	0.0
13 Sep 2024	6:00 PM	SE	0.0
13 Sep 2024	7:00 PM	S	0.2
13 Sep 2024	8:00 PM	WSW	0.2
13 Sep 2024	9:00 PM	WSW	0.1
13 Sep 2024	10:00 PM	SSW	0.3
13 Sep 2024	11:00 PM	WSW	0.0
14 Sep 2024	12:00 AM	WSW	0.0
14 Sep 2024	1:00 AM	WSW	0.0
14 Sep 2024	2:00 AM	WSW	0.0
14 Sep 2024	3:00 AM	N	0.0
14 Sep 2024	4:00 AM	W	0.0
14 Sep 2024	5:00 AM	WNW	0.0
14 Sep 2024	6:00 AM	SSE	0.0
14 Sep 2024	7:00 AM	SSW	0.0
14 Sep 2024	8:00 AM	N	0.0
14 Sep 2024	9:00 AM	SW	0.0
14 Sep 2024	10:00 AM	SSW	0.0
14 Sep 2024	11:00 AM	SE	0.0
14 Sep 2024	12:00 PM	S	0.0
14 Sep 2024	1:00 PM	N	0.2
14 Sep 2024	2:00 PM	S	0.5
14 Sep 2024	3:00 PM	SSW	0.0
14 Sep 2024	4:00 PM	S	0.3
14 Sep 2024	5:00 PM	S	0.6
14 Sep 2024	6:00 PM	N	0.0
14 Sep 2024	7:00 PM	S	0.3
14 Sep 2024	8:00 PM	SSW	0.4
14 Sep 2024	9:00 PM	S	0.5
14 Sep 2024	10:00 PM	S	0.0
14 Sep 2024	11:00 PM	S	0.0
15 Sep 2024	12:00 AM	SE	0.3
15 Sep 2024	1:00 AM	SW	0.1
15 Sep 2024	2:00 AM	SW	0.2
15 Sep 2024	3:00 AM	SW	0.0
15 Sep 2024	4:00 AM	SW	0.2
15 Sep 2024	5:00 AM	SW	0.0

September 2024			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
15 Sep 2024	6:00 AM	SW	0.0
15 Sep 2024	7:00 AM	SW	0.0
15 Sep 2024	8:00 AM	ESE	0.1
15 Sep 2024	9:00 AM	ESE	0.3
15 Sep 2024	10:00 AM	ESE	0.0
15 Sep 2024	11:00 AM	SW	0.5
15 Sep 2024	12:00 PM	SW	0.1
15 Sep 2024	1:00 PM	SW	0.0
15 Sep 2024	2:00 PM	SW	0.0
15 Sep 2024	3:00 PM	SW	0.0
15 Sep 2024	4:00 PM	SW	0.3
15 Sep 2024	5:00 PM	ENE	0.2
15 Sep 2024	6:00 PM	ENE	0.1
15 Sep 2024	7:00 PM	ENE	0.1
15 Sep 2024	8:00 PM	ENE	0.1
15 Sep 2024	9:00 PM	NE	0.2
15 Sep 2024	10:00 PM	ENE	0.1
15 Sep 2024	11:00 PM	NNE	0.0
16 Sep 2024	12:00 AM	ENE	0.0
16 Sep 2024	1:00 AM	ESE	0.0
16 Sep 2024	2:00 AM	SW	0.0
16 Sep 2024	3:00 AM	SW	0.0
16 Sep 2024	4:00 AM	NE	0.3
16 Sep 2024	5:00 AM	NE	0.2
16 Sep 2024	6:00 AM	SW	0.0
16 Sep 2024	7:00 AM	ENE	0.0
16 Sep 2024	8:00 AM	NE	0.0
16 Sep 2024	9:00 AM	ENE	0.0
16 Sep 2024	10:00 AM	ENE	0.0
16 Sep 2024	11:00 AM	ENE	0.1
16 Sep 2024	12:00 PM	SW	0.1
16 Sep 2024	1:00 PM	E	0.1
16 Sep 2024	2:00 PM	ENE	0.2
16 Sep 2024	3:00 PM	ENE	0.2
16 Sep 2024	4:00 PM	ENE	0.1
16 Sep 2024	5:00 PM	ENE	0.0
16 Sep 2024	6:00 PM	ENE	0.0
16 Sep 2024	7:00 PM	SSW	0.0
16 Sep 2024	8:00 PM	NNE	0.0
16 Sep 2024	9:00 PM	NNE	0.1
16 Sep 2024	10:00 PM	NNE	0.0
16 Sep 2024	11:00 PM	NNE	0.0
17 Sep 2024	12:00 AM	NNE	0.0
17 Sep 2024	1:00 AM	NNE	0.3
17 Sep 2024	2:00 AM	NE	0.5
17 Sep 2024	3:00 AM	NNE	0.1
17 Sep 2024	4:00 AM	NNE	0.0
17 Sep 2024	5:00 AM	NNE	0.0
17 Sep 2024	6:00 AM	NNE	0.1
17 Sep 2024	7:00 AM	NNE	0.1
17 Sep 2024	8:00 AM	NNE	0.0
17 Sep 2024	9:00 AM	NNE	0.2
17 Sep 2024	10:00 AM	NE	0.0
17 Sep 2024	11:00 AM	NNE	0.0
17 Sep 2024	12:00 PM	NNE	0.0
17 Sep 2024	1:00 PM	NNE	0.1
17 Sep 2024	2:00 PM	NNE	0.2

September 2024			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
17 Sep 2024	3:00 PM	SW	0.2
17 Sep 2024	4:00 PM	SW	0.1
17 Sep 2024	5:00 PM	SW	0.6
17 Sep 2024	6:00 PM	SW	0.5
17 Sep 2024	7:00 PM	SW	0.0
17 Sep 2024	8:00 PM	SW	0.0
17 Sep 2024	9:00 PM	ESE	0.0
17 Sep 2024	10:00 PM	SW	0.0
17 Sep 2024	11:00 PM	SW	0.0
18 Sep 2024	12:00 AM	SW	0.4
18 Sep 2024	1:00 AM	SW	0.4
18 Sep 2024	2:00 AM	ESE	0.1
18 Sep 2024	3:00 AM	ESE	0.2
18 Sep 2024	4:00 AM	SW	0.0
18 Sep 2024	5:00 AM	SW	0.0
18 Sep 2024	6:00 AM	ENE	0.0
18 Sep 2024	7:00 AM	ENE	0.1
18 Sep 2024	8:00 AM	SW	0.1
18 Sep 2024	9:00 AM	SW	0.1
18 Sep 2024	10:00 AM	SW	0.2
18 Sep 2024	11:00 AM	SW	0.0
18 Sep 2024	12:00 PM	SW	0.2
18 Sep 2024	1:00 PM	SSW	0.1
18 Sep 2024	2:00 PM	SW	0.0
18 Sep 2024	3:00 PM	SW	0.0
18 Sep 2024	4:00 PM	E	0.0
18 Sep 2024	5:00 PM	SW	0.3
18 Sep 2024	6:00 PM	SW	0.4
18 Sep 2024	7:00 PM	SW	0.2
18 Sep 2024	8:00 PM	SW	0.0
18 Sep 2024	9:00 PM	SW	0.0
18 Sep 2024	10:00 PM	SW	0.0
18 Sep 2024	11:00 PM	ESE	0.0
19 Sep 2024	12:00 AM	SW	0.2
19 Sep 2024	1:00 AM	SW	0.5
19 Sep 2024	2:00 AM	SW	0.4
19 Sep 2024	3:00 AM	SW	0.7
19 Sep 2024	4:00 AM	ESE	0.1
19 Sep 2024	5:00 AM	ESE	0.0
19 Sep 2024	6:00 AM	SW	0.1
19 Sep 2024	7:00 AM	SW	0.0
19 Sep 2024	8:00 AM	ENE	0.0
19 Sep 2024	9:00 AM	ENE	0.2
19 Sep 2024	10:00 AM	SW	0.0
19 Sep 2024	11:00 AM	SW	0.1
19 Sep 2024	12:00 PM	ENE	0.1
19 Sep 2024	1:00 PM	ENE	1.0
19 Sep 2024	2:00 PM	ENE	1.7
19 Sep 2024	3:00 PM	NE	0.0
19 Sep 2024	4:00 PM	ENE	0.9
19 Sep 2024	5:00 PM	NNE	0.8
19 Sep 2024	6:00 PM	SW	1.4
19 Sep 2024	7:00 PM	SW	0.7
19 Sep 2024	8:00 PM	NNE	0.8
19 Sep 2024	9:00 PM	ENE	0.7
19 Sep 2024	10:00 PM	SW	1.0
19 Sep 2024	11:00 PM	SW	1.1

September 2024			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
20 Sep 2024	12:00 AM	SW	0.0
20 Sep 2024	1:00 AM	SW	0.0
20 Sep 2024	2:00 AM	SW	0.0
20 Sep 2024	3:00 AM	SW	0.1
20 Sep 2024	4:00 AM	SW	0.0
20 Sep 2024	5:00 AM	SW	0.1
20 Sep 2024	6:00 AM	SW	0.0
20 Sep 2024	7:00 AM	SW	0.1
20 Sep 2024	8:00 AM	SW	0.0
20 Sep 2024	9:00 AM	NNE	0.0
20 Sep 2024	10:00 AM	ESE	0.3
20 Sep 2024	11:00 AM	ENE	0.5
20 Sep 2024	12:00 PM	ESE	0.3
20 Sep 2024	1:00 PM	E	0.5
20 Sep 2024	2:00 PM	ENE	0.1
20 Sep 2024	3:00 PM	ESE	0.5
20 Sep 2024	4:00 PM	ESE	0.1
20 Sep 2024	5:00 PM	SW	0.0
20 Sep 2024	6:00 PM	SW	0.0
20 Sep 2024	7:00 PM	SW	0.1
20 Sep 2024	8:00 PM	SW	0.1
20 Sep 2024	9:00 PM	ESE	0.1
20 Sep 2024	10:00 PM	ESE	0.1
20 Sep 2024	11:00 PM	SW	0.0
21 Sep 2024	12:00 AM	SW	0.0
21 Sep 2024	1:00 AM	ENE	0.0
21 Sep 2024	2:00 AM	ENE	0.1
21 Sep 2024	3:00 AM	SW	0.1
21 Sep 2024	4:00 AM	ENE	0.3
21 Sep 2024	5:00 AM	E	0.5
21 Sep 2024	6:00 AM	SW	0.0
21 Sep 2024	7:00 AM	ENE	0.0
21 Sep 2024	8:00 AM	ENE	0.0
21 Sep 2024	9:00 AM	SW	0.0
21 Sep 2024	10:00 AM	SW	0.0
21 Sep 2024	11:00 AM	SSW	0.0
21 Sep 2024	12:00 PM	SW	0.3
21 Sep 2024	1:00 PM	SW	0.5
21 Sep 2024	2:00 PM	SW	0.1
21 Sep 2024	3:00 PM	SW	0.0
21 Sep 2024	4:00 PM	SW	0.0
21 Sep 2024	5:00 PM	SSE	0.2
21 Sep 2024	6:00 PM	NE	0.2
21 Sep 2024	7:00 PM	NE	0.2
21 Sep 2024	8:00 PM	NE	0.2
21 Sep 2024	9:00 PM	NE	0.0
21 Sep 2024	10:00 PM	ENE	0.0
21 Sep 2024	11:00 PM	SW	0.1
22 Sep 2024	12:00 AM	SSW	0.1
22 Sep 2024	1:00 AM	SW	0.1
22 Sep 2024	2:00 AM	SW	0.1
22 Sep 2024	3:00 AM	SW	0.2
22 Sep 2024	4:00 AM	SW	0.2
22 Sep 2024	5:00 AM	SW	0.2
22 Sep 2024	6:00 AM	SSW	0.1
22 Sep 2024	7:00 AM	---	0.1
22 Sep 2024	8:00 AM	NE	1.0

September 2024			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
22 Sep 2024	9:00 AM	ENE	1.7
22 Sep 2024	10:00 AM	ENE	0.0
22 Sep 2024	11:00 AM	SW	0.9
22 Sep 2024	12:00 PM	ENE	0.8
22 Sep 2024	1:00 PM	ENE	0.0
22 Sep 2024	2:00 PM	ENE	0.0
22 Sep 2024	3:00 PM	ENE	0.2
22 Sep 2024	4:00 PM	ENE	0.3
22 Sep 2024	5:00 PM	ENE	0.4
22 Sep 2024	6:00 PM	ENE	0.5
22 Sep 2024	7:00 PM	SW	0.6
22 Sep 2024	8:00 PM	NNE	0.8
22 Sep 2024	9:00 PM	ENE	0.8
22 Sep 2024	10:00 PM	ENE	0.9
22 Sep 2024	11:00 PM	ESE	0.1
23 Sep 2024	12:00 AM	SW	0.5
23 Sep 2024	1:00 AM	SW	0.1
23 Sep 2024	2:00 AM	SW	0.1
23 Sep 2024	3:00 AM	SW	0.1
23 Sep 2024	4:00 AM	ESE	1.0
23 Sep 2024	5:00 AM	ESE	1.7
23 Sep 2024	6:00 AM	SW	0.0
23 Sep 2024	7:00 AM	SW	0.9
23 Sep 2024	8:00 AM	ENE	0.8
23 Sep 2024	9:00 AM	ENE	0.0
23 Sep 2024	10:00 AM	ENE	0.8
23 Sep 2024	11:00 AM	ENE	0.8
23 Sep 2024	12:00 PM	SE	0.9
23 Sep 2024	1:00 PM	ENE	1.1
23 Sep 2024	2:00 PM	ENE	1.2
23 Sep 2024	3:00 PM	ENE	0.5
23 Sep 2024	4:00 PM	ENE	0.6
23 Sep 2024	5:00 PM	ENE	0.7
23 Sep 2024	6:00 PM	ENE	0.5
23 Sep 2024	7:00 PM	ENE	0.2
23 Sep 2024	8:00 PM	ENE	0.0
23 Sep 2024	9:00 PM	ENE	0.0
23 Sep 2024	10:00 PM	ENE	0.0
23 Sep 2024	11:00 PM	ENE	0.0
24 Sep 2024	12:00 AM	ENE	0.2
24 Sep 2024	1:00 AM	ENE	0.1
24 Sep 2024	2:00 AM	ENE	0.6
24 Sep 2024	3:00 AM	ENE	0.0
24 Sep 2024	4:00 AM	ENE	0.0
24 Sep 2024	5:00 AM	ENE	0.5
24 Sep 2024	6:00 AM	ENE	0.4
24 Sep 2024	7:00 AM	ENE	0.0
24 Sep 2024	8:00 AM	ENE	0.0
24 Sep 2024	9:00 AM	E	0.0
24 Sep 2024	10:00 AM	ESE	0.0
24 Sep 2024	11:00 AM	ENE	0.6
24 Sep 2024	12:00 PM	ENE	0.3
24 Sep 2024	1:00 PM	E	0.1
24 Sep 2024	2:00 PM	SE	0.0
24 Sep 2024	3:00 PM	ESE	0.3
24 Sep 2024	4:00 PM	E	0.4
24 Sep 2024	5:00 PM	ESE	0.6

September 2024			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
24 Sep 2024	6:00 PM	ESE	0.0
24 Sep 2024	7:00 PM	ESE	0.0
24 Sep 2024	8:00 PM	ENE	0.0
24 Sep 2024	9:00 PM	ENE	0.0
24 Sep 2024	10:00 PM	ENE	0.1
24 Sep 2024	11:00 PM	ENE	0.0
25 Sep 2024	12:00 AM	ENE	0.1
25 Sep 2024	1:00 AM	ENE	0.1
25 Sep 2024	2:00 AM	ENE	0.0
25 Sep 2024	3:00 AM	ENE	0.2
25 Sep 2024	4:00 AM	ENE	0.0
25 Sep 2024	5:00 AM	ENE	0.0
25 Sep 2024	6:00 AM	ENE	0.0
25 Sep 2024	7:00 AM	ENE	0.0
25 Sep 2024	8:00 AM	ENE	0.1
25 Sep 2024	9:00 AM	ENE	0.0
25 Sep 2024	10:00 AM	ENE	0.0
25 Sep 2024	11:00 AM	ENE	0.4
25 Sep 2024	12:00 PM	ENE	0.4
25 Sep 2024	1:00 PM	E	0.7
25 Sep 2024	2:00 PM	ESE	1.0
25 Sep 2024	3:00 PM	ENE	1.0
25 Sep 2024	4:00 PM	ENE	0.7
25 Sep 2024	5:00 PM	E	1.2
25 Sep 2024	6:00 PM	E	0.9
25 Sep 2024	7:00 PM	ENE	0.7
25 Sep 2024	8:00 PM	ESE	0.3
25 Sep 2024	9:00 PM	SW	0.1
25 Sep 2024	10:00 PM	SW	0.1
25 Sep 2024	11:00 PM	SW	0.1
26 Sep 2024	12:00 AM	SW	0.0
26 Sep 2024	1:00 AM	ESE	0.0
26 Sep 2024	2:00 AM	ESE	0.0
26 Sep 2024	3:00 AM	SW	0.0
26 Sep 2024	4:00 AM	SW	0.3
26 Sep 2024	5:00 AM	ENE	0.0
26 Sep 2024	6:00 AM	ENE	0.0
26 Sep 2024	7:00 AM	ENE	0.1
26 Sep 2024	8:00 AM	ENE	0.5
26 Sep 2024	9:00 AM	SW	1.2
26 Sep 2024	10:00 AM	ENE	0.6
26 Sep 2024	11:00 AM	ENE	0.7
26 Sep 2024	12:00 PM	ENE	0.9
26 Sep 2024	1:00 PM	SW	1.1
26 Sep 2024	2:00 PM	ENE	1.2
26 Sep 2024	3:00 PM	ENE	1.0
26 Sep 2024	4:00 PM	ENE	0.7
26 Sep 2024	5:00 PM	SSE	0.4
26 Sep 2024	6:00 PM	SE	0.5
26 Sep 2024	7:00 PM	S	0.4
26 Sep 2024	8:00 PM	SSE	0.7
26 Sep 2024	9:00 PM	S	0.8
26 Sep 2024	10:00 PM	SSE	0.6
26 Sep 2024	11:00 PM	SSE	0.7
27 Sep 2024	12:00 AM	S	0.6
27 Sep 2024	1:00 AM	S	0.6
27 Sep 2024	2:00 AM	SSE	0.5

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

September 2024			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
28 Sep 2024	3:00 PM	SSW	1.9
28 Sep 2024	4:00 PM	SSW	1.7
28 Sep 2024	5:00 PM	SW	1.3
28 Sep 2024	6:00 PM	SW	0.8
28 Sep 2024	7:00 PM	WSW	1.5
28 Sep 2024	8:00 PM	SW	1.0
28 Sep 2024	9:00 PM	W	1.7
28 Sep 2024	10:00 PM	SW	0.7
28 Sep 2024	11:00 PM	SSW	0.5
29 Sep 2024	12:00 AM	SW	0.9
29 Sep 2024	1:00 AM	S	0.3
29 Sep 2024	2:00 AM	SSE	0.2
29 Sep 2024	3:00 AM	S	0.3
29 Sep 2024	4:00 AM	SSW	0.4
29 Sep 2024	5:00 AM	S	0.1
29 Sep 2024	6:00 AM	S	0.4
29 Sep 2024	7:00 AM	S	0.3
29 Sep 2024	8:00 AM	S	1.0
29 Sep 2024	9:00 AM	SSE	0.6
29 Sep 2024	10:00 AM	SSE	0.5
29 Sep 2024	11:00 AM	SSE	0.5
29 Sep 2024	12:00 PM	S	0.8
29 Sep 2024	1:00 PM	S	0.7
29 Sep 2024	2:00 PM	S	0.8
29 Sep 2024	3:00 PM	SSE	0.7
29 Sep 2024	4:00 PM	S	1.0
29 Sep 2024	5:00 PM	S	0.9
29 Sep 2024	6:00 PM	SW	0.7
29 Sep 2024	7:00 PM	S	0.3
29 Sep 2024	8:00 PM	S	0.3
29 Sep 2024	9:00 PM	SSE	0.4
29 Sep 2024	10:00 PM	SSE	0.5
29 Sep 2024	11:00 PM	SSE	0.5
30 Sep 2024	12:00 AM	SSE	0.4
30 Sep 2024	1:00 AM	SSE	0.3
30 Sep 2024	2:00 AM	S	0.1
30 Sep 2024	3:00 AM	SSE	0.2
30 Sep 2024	4:00 AM	S	0.7
30 Sep 2024	5:00 AM	S	0.9
30 Sep 2024	6:00 AM	SSW	0.4
30 Sep 2024	7:00 AM	S	0.3
30 Sep 2024	8:00 AM	SSE	0.5
30 Sep 2024	9:00 AM	SE	0.9
30 Sep 2024	10:00 AM	SE	1.5
30 Sep 2024	11:00 AM	S	1.2
30 Sep 2024	12:00 PM	SSE	1.0
30 Sep 2024	1:00 PM	SE	1.2
30 Sep 2024	2:00 PM	SSE	1.2
30 Sep 2024	3:00 PM	SE	1.3
30 Sep 2024	4:00 PM	SE	1.3
30 Sep 2024	5:00 PM	SSE	0.8
30 Sep 2024	6:00 PM	SSE	1.1
30 Sep 2024	7:00 PM	SSE	1.4
30 Sep 2024	8:00 PM	S	1.7
30 Sep 2024	9:00 PM	S	1.0
30 Sep 2024	10:00 PM	SSE	2.2
30 Sep 2024	11:00 PM	SSE	2.1

APPENDIX F
24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Impact Monitoring Results

Location CKL1 - Flat 121 Cha Kwo Ling Village

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m^3/min.)		Av. Flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)	Action Level (µg/m3)	Limit Level (µg/m3)
				Initial	Final		Initial	Final		Initial	Final					
4-Sep-24	Cloudy	303.1	751.7	3.3578	3.4566	0.0989	14110.8	14134.8	24.0	1.21	1.21	1.21	1745.3	56.7	191.0	260.0
10-Sep-24	Sunny	302.9	756.8	3.3340	3.4723	0.1384	14134.8	14158.8	24.0	1.22	1.22	1.22	1756.9	78.8		
16-Sep-24	Fine	302.7	754.0	3.3372	3.4433	0.1061	14158.8	14182.8	24.0	1.22	1.22	1.22	1755.0	60.5		
21-Sep-24	Cloudy	300.4	754.5	3.3592	3.4228	0.0636	14182.8	14206.8	24.0	1.22	1.22	1.22	1760.5	36.1		
27-Sep-24	Fine	302.5	758.2	3.3655	3.5320	0.1664	14206.8	14230.8	24.0	1.22	1.22	1.22	1759.1	94.6		
													Min	36.1		
													Max	94.6		
													Average	65.3		

Note: ***Bold Italic*** means Action Level exceedance
Bold Italic with underline means Limit Level exceedance

Location CKL2 - Flat 103 Cha Kwo Ling Village

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m^3/min.)		Av. Flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)	Action Level (µg/m3)	Limit Level (µg/m3)
				Initial	Final		Initial	Final		Initial	Final					
4-Sep-24	Sunny	303.1	751.7	3.3516	3.5336	0.1820	20711.8	20735.8	24.0	1.21	1.21	1.21	1746.1	104.2	183.0	260.0
10-Sep-24	Sunny	302.9	756.8	3.3444	3.5023	0.1579	20735.8	20759.8	24.0	1.22	1.22	1.22	1757.1	89.9		
16-Sep-24	Fine	302.7	754.0	3.3391	3.4924	0.1533	20759.8	20783.8	24.0	1.22	1.22	1.22	1755.1	87.4		
21-Sep-24	Cloudy	300.4	754.5	3.3433	3.5792	0.2359	20783.8	20807.8	24.0	1.22	1.22	1.22	1760.8	134.0		
27-Sep-24	Fine	302.5	758.2	3.3562	3.6379	0.2816	20807.8	20831.8	24.0	1.22	1.22	1.22	1759.4	160.1		
													Min	87.4		
													Max	160.1		
													Average	115.1		

Note: ***Bold Italic*** means Action Level exceedance
Bold Italic with underline means Limit Level exceedance

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

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m^3/min.)		Av. Flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)	Action Level (µg/m3)	Limit Level (µg/m3)
				Initial	Final		Initial	Final		Initial	Final					
4-Sep-24	Cloudy	303.1	751.7	3.3901	3.4560	0.0660	19556.0	19580.0	24.0	1.22	1.21	1.21	1748.0	37.7	177.0	260.0
10-Sep-24	Sunny	302.9	756.8	3.3796	3.4279	0.0482	19580.0	19604.0	24.0	1.22	1.22	1.22	1753.4	27.5		
16-Sep-24	Fine	302.7	754.0	3.3382	3.3434	0.0052	19604.0	19628.0	24.0	1.22	1.21	1.21	1749.1	3.0		
21-Sep-24	Sunny	300.4	754.5	3.3232	3.3560	0.0328	19605.8	19629.8	24.0	1.22	1.22	1.22	1754.9	18.7		
27-Sep-24	Fine	302.5	758.2	2.7991	2.8764	0.0773	19629.8	19653.8	24.0	1.22	1.22	1.22	1753.5	44.1		
													Min	3.0		
													Max	44.1		
													Average	26.2		

Note: ***Bold Italic*** means Action Level exceedance
Bold Italic with underline means Limit Level exceedance

Location KER1 - Future Residential Development at Kerry Godown

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m^3/min.)		Av. Flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)	Action Level (µg/m3)	Limit Level (µg/m3)
				Initial	Final		Initial	Final		Initial	Final					
4-Sep-24	Cloudy	303.1	751.7	3.3966	3.4856	0.0890	17365.9	17389.9	24.0	1.22	1.21	1.21	1750.3	50.8	172.0	260.0
10-Sep-24	Sunny	302.9	756.8	3.3343	3.4270	0.0927	17389.9	17413.9	24.0	1.22	1.22	1.22	1753.6	52.9		
16-Sep-24	Sunny	302.7	754.0	3.3702	3.4248	0.0546	17413.9	17437.9	24.0	1.22	1.21	1.22	1749.9	31.2		
21-Sep-24	Cloudy	300.4	754.5	3.3735	3.4188	0.0453	17437.9	17461.9	24.0	1.22	1.22	1.22	1755.7	25.8		
27-Sep-24	Fine	302.5	758.2	3.3147	3.3718	0.0571	17461.9	17485.9	24.0	1.22	1.22	1.22	1754.3	32.5		
													Min	25.8		
													Max	52.9		
													Average	38.6		

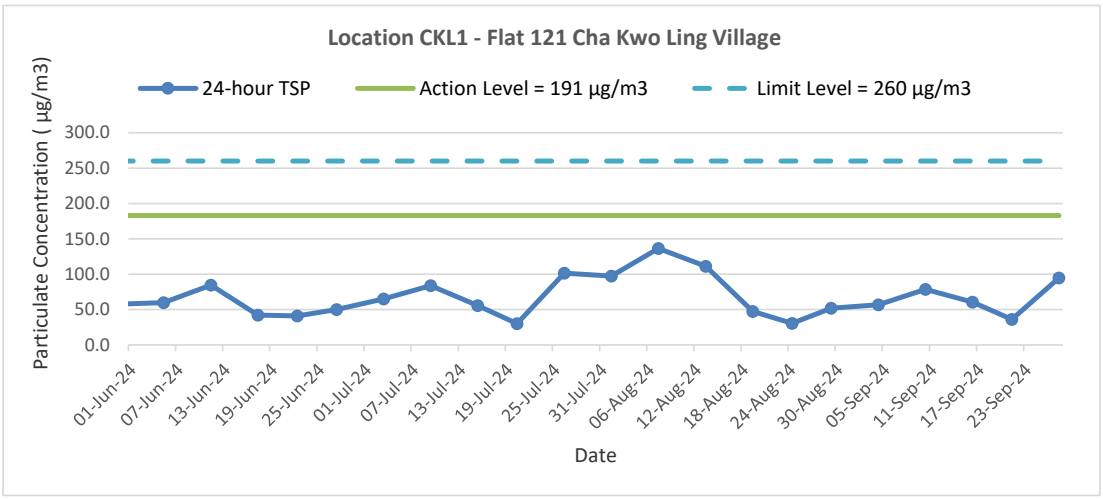
Note: ***Bold Italic*** means Action Level exceedance
Bold Italic with underline means Limit Level exceedance

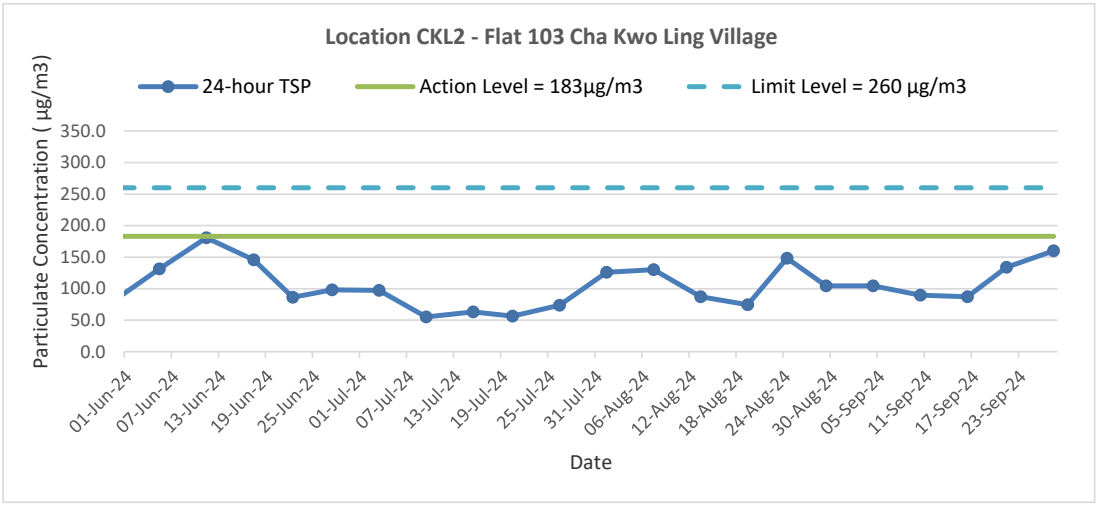
Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m^3/min.)		Av. Flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)	Action Level (µg/m3)	Limit Level (µg/m3)
				Initial	Final		Initial	Final		Initial	Final					
4-Sep-24	Cloudy	303.1	751.7	3.3660	3.4841	0.1181	18113.6	18137.6	24.0	1.22	1.21	1.21	1749.2	67.5	157.0	260.0
10-Sep-24	Sunny	302.9	756.8	3.3461	3.4470	0.1008	18137.6	18161.6	24.0	1.22	1.22	1.22	1754.6	57.5		
16-Sep-24	Fine	302.7	754.0	3.3320	3.4080	0.0761	18161.6	18185.6	24.0	1.22	1.21	1.22	1751.8	43.4		
21-Sep-24	Cloudy	300.4	754.5	3.3625	3.4219	0.0594	18185.6	18209.6	24.0	1.22	1.22	1.22	1757.6	33.8		
27-Sep-24	Fine	302.5	758.2	3.3450	3.4509	0.1059	18209.6	18233.6	24.0	1.22	1.22	1.22	1756.2	60.3		
													Min	33.8		
													Max	67.5		
													Average	52.5		

Note: ***Bold Italic*** means Action Level exceedance
Bold Italic with underline means Limit Level exceedance

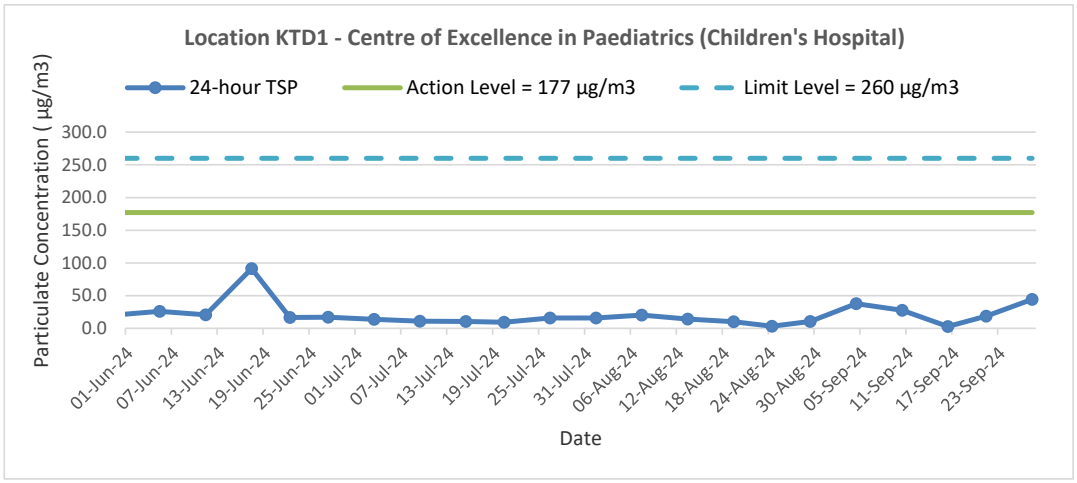
24-hr TSP Concentration Levels

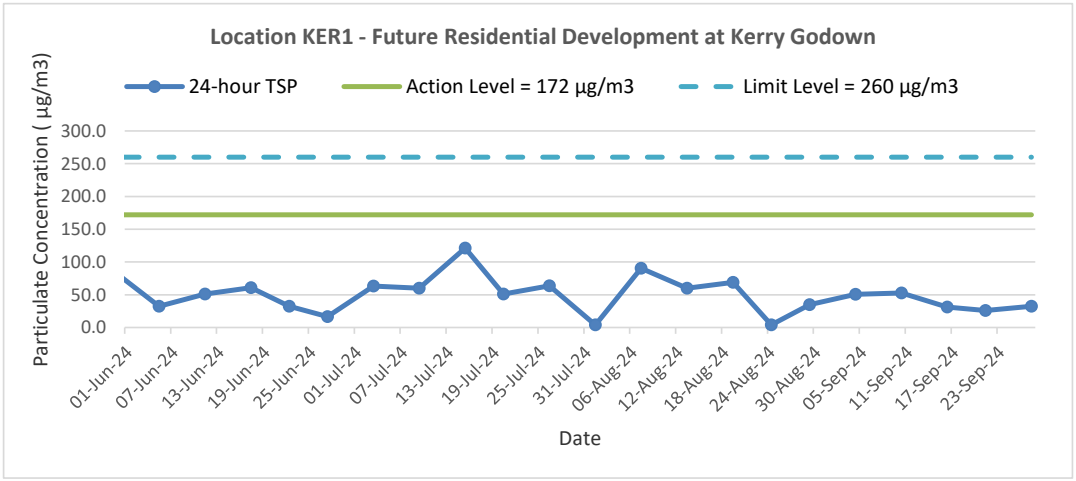




Title	Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Date: Sep-24	Project No.: MA20003	CINOTECH
	Graphical Presentation of 24-hour TSP Monitoring Results		Appendix: F	

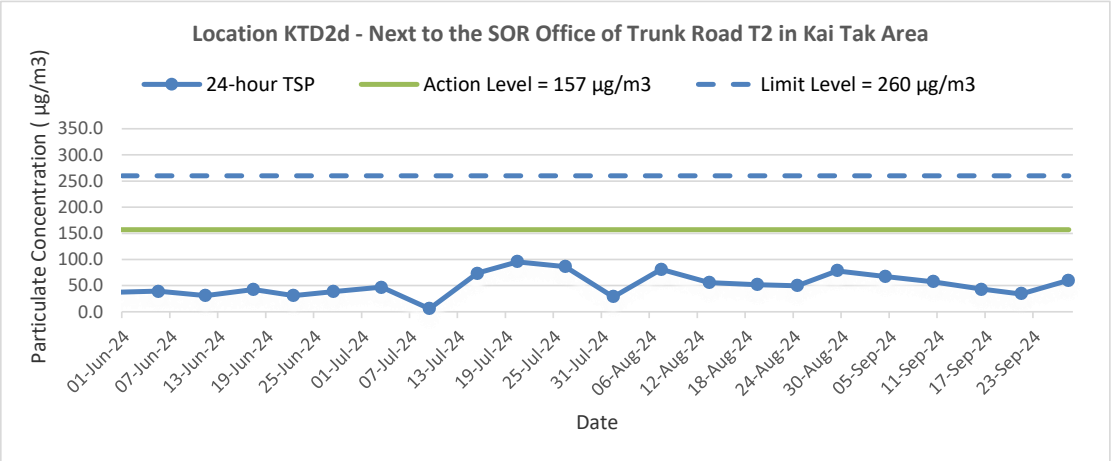
24-hr TSP Concentration Levels





Title	Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Date: Sep-24	Project No.: MA20003	CINOTECH
	Graphical Presentation of 24-hour TSP Monitoring Results		Appendix: F	

24-hr TSP Concentration Levels



Title	Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Date: Sep-24	Project No.: MA20003	CINOTECH
	Graphical Presentation of 24-hour TSP Monitoring Results		Appendix: F	

APPENDIX G
COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING

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

Report No. : 00736 Issue Date : 28 Jun 2024
Application No. : HP00592

Certificate of Calibration

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

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

Equipment No.: : N-16-01

Manufacturer: : Hangzhou Aihua Instruments Co., Ltd.

Other information :

Model No.	AWA6021A
Serial No.	1023253

Date Received : 27 Jun 2024

Test Period : 28 Jun 2024 to 28 Jun 2024

Test Requested : Performance checking for Sound Level Calibrator

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

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

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

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

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit
Laboratory Manager

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

Report No. : 00736 Issue Date : 28 Jun 2024
Application No. : HP00592

Certificate of Calibration

Measuring equipment :

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

Description	Sound Meter
Manufacturer	BSWA Technology
Model No.	BSWA 308
Serial No.	570183
Microphone No.	570605
Equipment No.	N-12-01

Test Result :

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

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

- End of report -

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

Report No. : 00582 Issue Date : 14 Feb 2024
Application No. : HP00451

Certificate of Calibration

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

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

Equipment No.: : N-16-02

Manufacturer: : Hangzhou Aihua Instruments Co., Ltd.

Other information :

Model No.	AWA6021A
Serial No.	1023064

Date Received : 14 Feb 2024

Test Period : 15 Feb 2024 to 15 Feb 2024

Test Requested : Performance checking for Sound Level Calibrator

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

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

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

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

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit
Laboratory Manager

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

Report No. : 00582 Issue Date : 14 Feb 2024
Application No. : HP00451

Certificate of Calibration

Measuring equipment :

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

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

Test Result :

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

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

- End of report -

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

Report No. : 00583 Issue Date : 16 Feb 2024
Application No. : HP00452

Certificate of Calibration

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

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

Equipment No.: : N-08-07

Manufacturer: : SVANTEK

Other information :

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

Date Received : 14 Feb 2024

Test Period : 15 Feb 2024 to 15 Feb 2024

Test Requested : Performance checking for Sound Level Meter

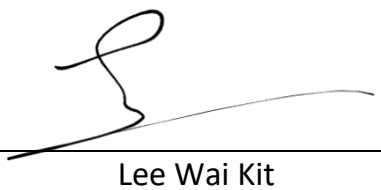
Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

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

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

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

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED



Lee Wai Kit
Laboratory Manager

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

Report No. : 00583 Issue Date : 16 Feb 2024
Application No. : HP00452

Certificate of Calibration

Measuring equipment :

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

Test Result :

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

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

- End of report -

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

Report No. : 00647 Issue Date : 11 Apr 2024
Application No. : HP00514

Certificate of Calibration

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

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

Equipment No.: : N-12-01

Manufacturer: : BSWA Technology

Other information :

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

Date Received : 09 Apr 2024

Test Period : 09 Apr 2024 to 09 Apr 2024

Test Requested : Performance checking for Sound Level Meter

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

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

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

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

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit
Laboratory Manager

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

Report No. : 00647 Issue Date : 11 Apr 2024
Application No. : HP00514

Certificate of Calibration

Measuring equipment :

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

Test Result :

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

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

- End of report -

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

Report No. : 00568 Issue Date : 14 Feb 2024
Application No. : HP00436

Certificate of Calibration

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

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

Equipment No.: : N-12-03

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	570188
Microphone No.	570608

Date Received : 05 Feb 2024

Test Period : 07 Feb 2024 to 07 Feb 2024

Test Requested : Performance checking for Sound Level Meter

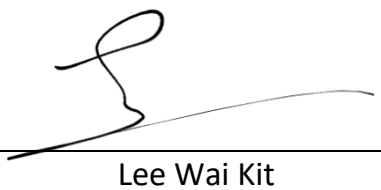
Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

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

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

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

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED



Lee Wai Kit
Laboratory Manager

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

Report No. : 00568 Issue Date : 14 Feb 2024
Application No. : HP00436

Certificate of Calibration

Measuring equipment :

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

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.0	± 0.0	± 1.5
114.0	113.9	- 0.1	± 1.5

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

- End of report -

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

Report No. : 00648 Issue Date : 11 Apr 2024
Application No. : HP00515

Certificate of Calibration

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

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

Equipment No.: : N-12-05

Manufacturer: : BSWA Technology

Other information :

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

Date Received : 09 Apr 2024

Test Period : 09 Apr 2024 to 09 Apr 2024

Test Requested : Performance checking for Sound Level Meter

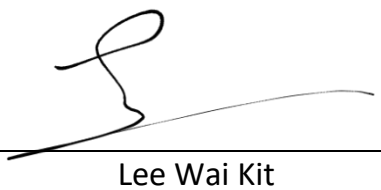
Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

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

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

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

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED



Lee Wai Kit
Laboratory Manager

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

Report No. : 00648 Issue Date : 11 Apr 2024
Application No. : HP00515

Certificate of Calibration

Measuring equipment :

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

Test Result :

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

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

- End of report -

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

Report No. : 00618 Issue Date : 18 Mar 2024
Application No. : HP00473

Certificate of Calibration

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

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

Equipment No.: : N-12-06

Manufacturer: : BSWA Technology

Other information :

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

Date Received : 06 Mar 2024

Test Period : 14 Mar 2024 to 14 Mar 2024

Test Requested : Performance checking for Sound Level Meter

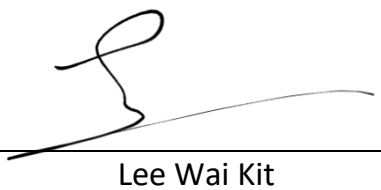
Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

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

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

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

For and on behalf of
HIGH PRECISION CHEMICAL TESTING LIMITED



Lee Wai Kit
Laboratory Manager

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

Report No. : 00618 Issue Date : 18 Mar 2024
Application No. : HP00473

Certificate of Calibration

Measuring equipment :

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

Test Result :

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

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

- End of report -

APPENDIX H
NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix H - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location CKL1 - Flat 121 Cha Kwo Ling Village							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
5-Sep-24	11:07	Cloudy	66.9	71.7	58.8	72.4	66.9 Measured ≦ Baseline
11-Sep-24	15:46	Sunny	73.0	75.3	65.5	72.4	64
17-Sep-24	13:03	Sunny	73.5	77.3	61.6	72.4	67
23-Sep-24	11:06	Cloudy	73.2	74.7	58.9	72.4	65

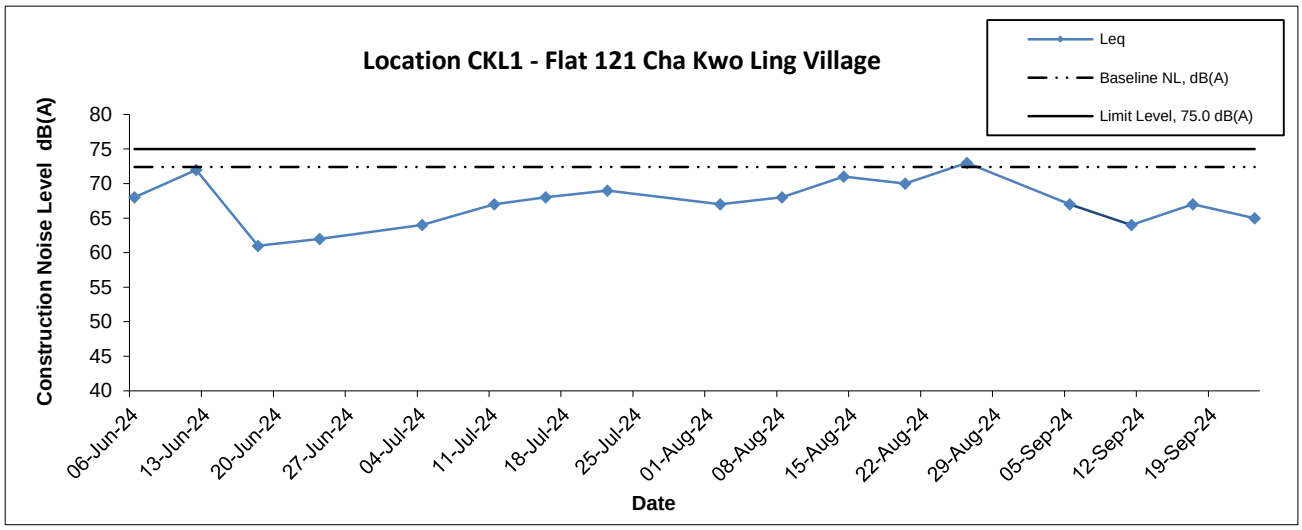
Location CKL2 - Flat 103 Cha Kwo Ling Village							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
5-Sep-24	11:53	Cloudy	73.8	77.3	64.8	71.4	70
11-Sep-24	15:22	Sunny	76.1	80.0	64.7	71.4	74
17-Sep-24	13:35	Sunny	76.3	79.7	61.8	71.4	75
23-Sep-24	11:40	Cloudy	72.8	76.9	60.5	71.4	67

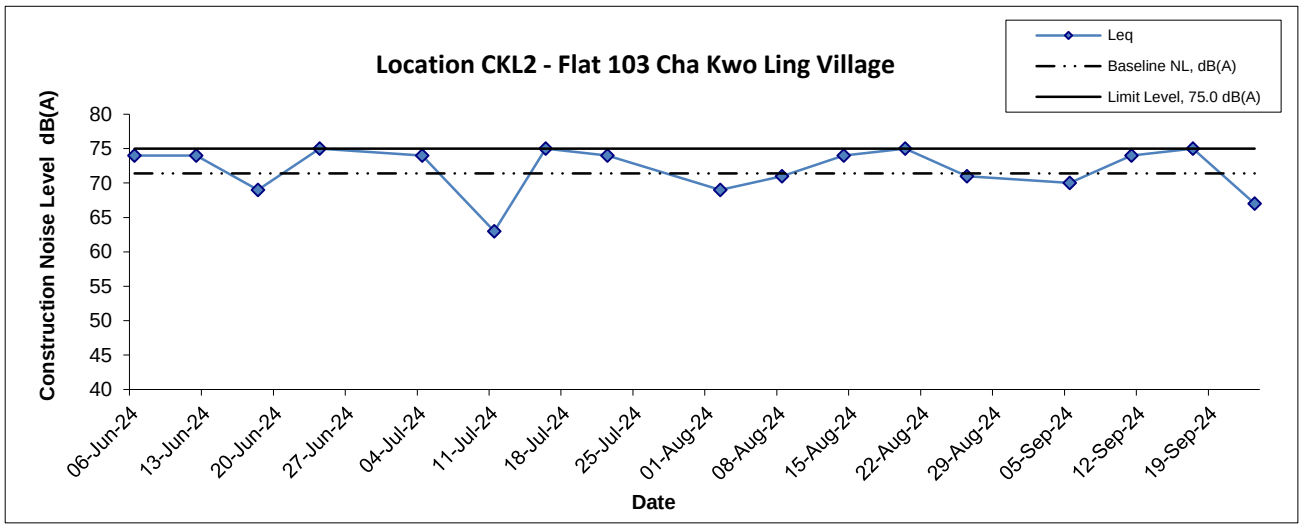
Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
5-Sep-24	14:09	Cloudy	64.8	65.7	63.9	78.0	64.8 Measured ≦ Baseline
11-Sep-24	13:14	Sunny	70.3	72.1	66.9	78.0	70.3 Measured ≦ Baseline
17-Sep-24	11:00	Sunny	70.1	71.4	68.6	78.0	70.1 Measured ≦ Baseline
23-Sep-24	15:25	Cloudy	70.1	70.8	69.1	78.0	70.1 Measured ≦ Baseline

Location KER1 - Future Residential Development at Kerry Godown							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
5-Sep-24	13:03	Cloudy	64.7	65.3	64.2	65.0	64.7 Measured ≦ Baseline
11-Sep-24	10:54	Sunny	74.2	76.8	68.7	65.0	74
17-Sep-24	11:50	Sunny	66.8	67.3	64.1	65.0	62
23-Sep-24	14:15	Cloudy	72.8	74.1	68.3	65.0	72

Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
5-Sep-24	15:33	Cloudy	54.6	55.5	52.9	64.0	55 Measured ≦ Baseline
11-Sep-24	14:20	Sunny	68.2	70.4	63.7	64.0	66
17-Sep-24	9:44	Sunny	60.2	61.9	58.2	64.0	60 Measured ≦ Baseline
23-Sep-24	16:20	Cloudy	66.3	68.9	62.8	64.0	62

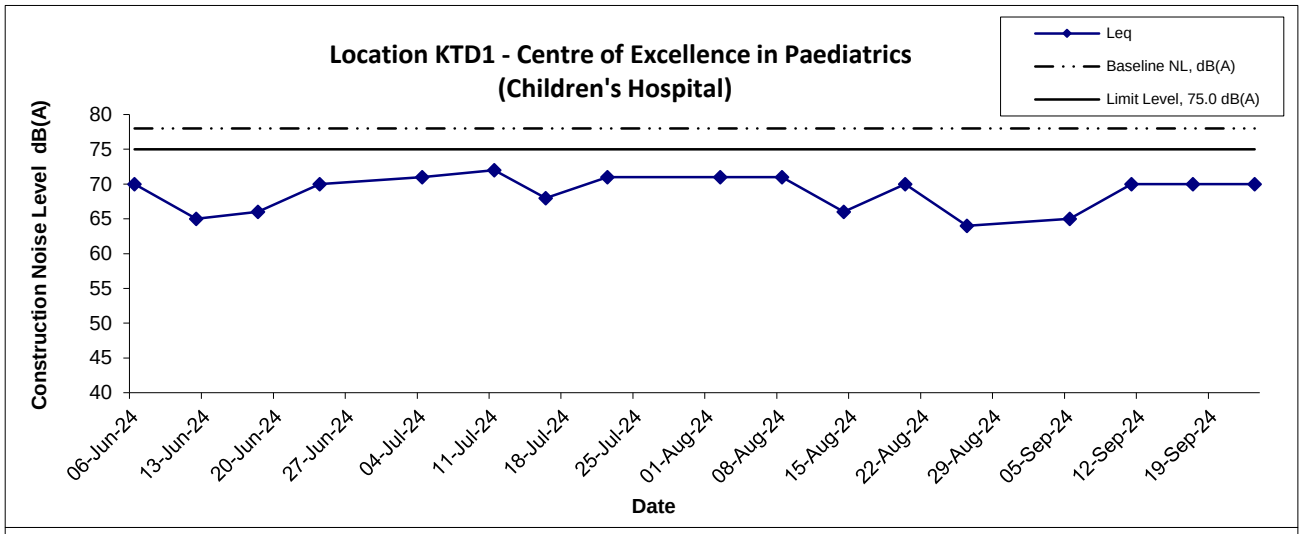
Noise Levels

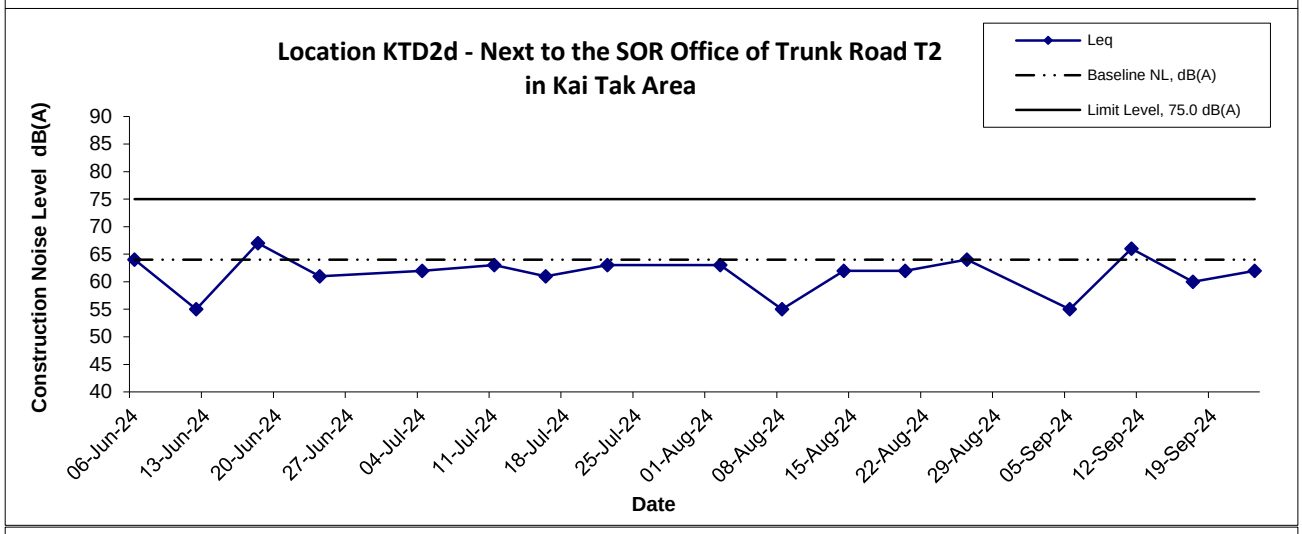


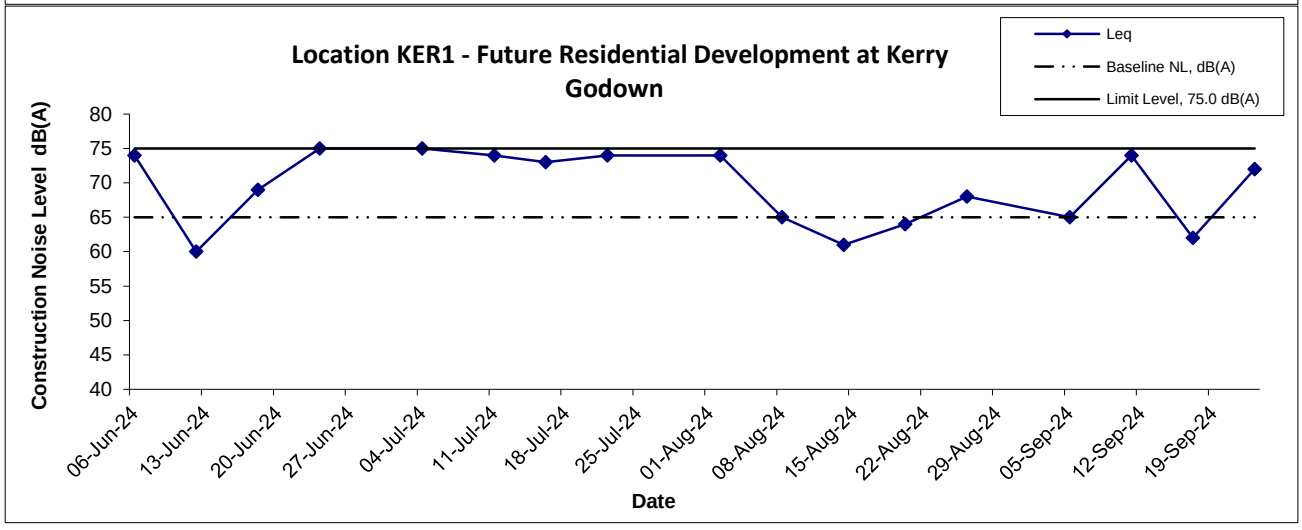


Title	Date	Project
Kai Tak Development – Trunk Road T2 and Infrastructure Works at the Former South Apron Graphical Presentation of Construction Noise Monitoring Results	Sep 24	No. MA20003 Appendix H

Noise Levels







Title	Date	Project
Kai Tak Development – Trunk Road T2 and Infrastructure Works at the Former South Apron Graphical Presentation of Construction Noise Monitoring Results	Sep 24	No. MA20003 Appendix H

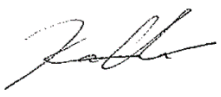
APPENDIX I
SITE AUDIT SUMMARY

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	240905
Date	05 September 2024 (Thursday)
Time	09:30 – 16:30

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

Ref. No.	Remarks/Observations	Related Item No.
240905-EP451-R1	***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*** • Accumulated general refuse was observed stacking at improper storage area. ***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*** • No environmental deficiency was identified in previous session (Ref No.: 240829).	*E1i*

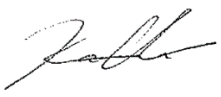
	Name	Signature	Date
Recorded by	William Yeung		05 September 2024
Checked by	Karina Chan		06 September 2024

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	240912
Date	12 September 2024 (Thursday)
Time	09:30 – 16:30

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.:240905), all the items have been rectified.	

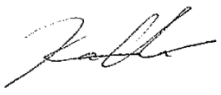
	Name	Signature	Date
Recorded by	William Yeung		12 September 2024
Checked by	Karina Chan		13 September 2024

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	240919
Date	19 September 2024 (Thursday)
Time	09:30 – 16:30

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*** • No environmental deficiency was identified in previous session (Ref No.: 240912).	

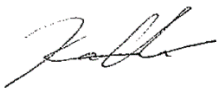
	Name	Signature	Date
Recorded by	William Yeung		19 September 2024
Checked by	Karina Chan		20 September 2024

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	240926
Date	26 September 2024 (Thursday)
Time	09:30 – 16:30

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.	
240926-EP451-R2	***D. Construction Noise Impact*** • Acoustic sheets should be applied to the breaker head to minimize noise impact.	*D5*
240926-EP451-R1	***E. Waste/Chemical Management*** • Drip tray should be provided to chemical containers / fuel drums to avoid potential leakage.	*E9*
	F. Visual and Landscape • No environmental deficiency was identified during site inspection. ***G. Permits/Licences*** • No environmental deficiency was identified during site inspection. ***H. Marine Ecology*** • No environmental deficiency was identified during site inspection. ***I. Others*** • No environmental deficiency was identified in previous session (Ref No.: 240919).	

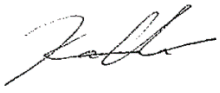
	Name	Signature	Date
Recorded by	William Yeung		26 September 2024
Checked by	Karina Chan		27 September 2024

Site Inspection Record Summary
Inspection Information

Checklist Reference Number	240905
Date	05 September 2024 (Thursday)
Time	09:30 – 12:30

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality • No environmental deficiency was identified during site inspection. ***C. Air Quality*** • No environmental deficiency was identified during site inspection. ***D. Construction Noise Impact*** • No environmental deficiency was identified during site inspection. ***E. Waste/Chemical Management*** • No environmental deficiency was identified during site inspection. ***F. Visual and Landscape*** • No environmental deficiency was identified during site inspection. ***G. Permits/Licences*** • No environmental deficiency was identified during site inspection ***I. Others*** • Follow up on the previous session (Ref No.:240829), no major environmental deficiency was identified during site inspection.	

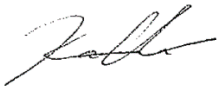
	Name	Signature	Date
Recorded by	William Yeung		05 September 2024
Checked by	Karina Chan		06 September 2024

Site Inspection Record Summary
Inspection Information

Checklist Reference Number	240913
Date	13 September 2024 (Friday)
Time	09:30 – 12:30

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality • No environmental deficiency was identified during site inspection. ***C. Air Quality*** • No environmental deficiency was identified during site inspection. ***D. Construction Noise Impact*** • No environmental deficiency was identified during site inspection. ***E. Waste/Chemical Management*** • No environmental deficiency was identified during site inspection. ***F. Visual and Landscape*** • No environmental deficiency was identified during site inspection. ***G. Permits/Licences*** • No environmental deficiency was identified during site inspection ***I. Others*** • Follow up on the previous session (Ref No.:240905), no major environmental deficiency was identified during site inspection.	

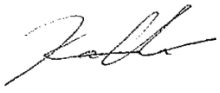
	Name	Signature	Date
Recorded by	William Yeung		13 September 2024
Checked by	Karina Chan		16 September 2024

Site Inspection Record Summary
Inspection Information

Checklist Reference Number	240919
Date	19 September 2024 (Thursday)
Time	09:30 – 12:30

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality • No environmental deficiency was identified during site inspection. ***C. Air Quality*** • No environmental deficiency was identified during site inspection. ***D. Construction Noise Impact*** • No environmental deficiency was identified during site inspection. ***E. Waste/Chemical Management*** • No environmental deficiency was identified during site inspection. ***F. Visual and Landscape*** • No environmental deficiency was identified during site inspection. ***G. Permits/Licences*** • No environmental deficiency was identified during site inspection ***I. Others*** • Follow up on the previous session (Ref No.:240913), no major environmental deficiency was identified during site inspection.	

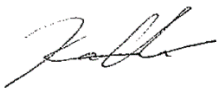
	Name	Signature	Date
Recorded by	William Yeung		19 September 2024
Checked by	Karina Chan		20 September 2024

Site Inspection Record Summary
Inspection Information

Checklist Reference Number	240926
Date	26 September 2024 (Thursday)
Time	09:30 – 12:30

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality • No environmental deficiency was identified during site inspection. ***C. Air Quality*** • No environmental deficiency was identified during site inspection. ***D. Construction Noise Impact*** • No environmental deficiency was identified during site inspection. ***E. Waste/Chemical Management*** • No environmental deficiency was identified during site inspection. ***F. Visual and Landscape*** • No environmental deficiency was identified during site inspection. ***G. Permits/Licences*** • No environmental deficiency was identified during site inspection ***I. Others*** • Follow up on the previous session (Ref No.:240919), no major environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	William Yeung		26 September 2024
Checked by	Karina Chan		27 September 2024

APPENDIX J
EVENT AND ACTION PLANS

Appendix J - Event Action Plans

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

Event	Action			
	ET	IEC	ER	Contractor
Action Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of complaint and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods agreed with the ER as appropriate.
2. Exceedance by two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC, ER and Contractor on remedial actions required;	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET, ER and Contractor on possible remedial measures if required; 4. Advise the ER on the effectiveness of the proposed remedial measures;	1. Notify Contractor; 2. Ensure remedial measures properly implemented.	1. Submit proposals for remedial actions to IEC within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Appendix J - Event Action Plans

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

Appendix J - Event Action Plans

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

Appendix J - Event Action Plans

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

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

Appendix J - Event Action Plans

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

Appendix J - Event Action Plans

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

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

Appendix J - Event Action Plans

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

APPENDIX K
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
Air Quality Impact									
S2.3.1.1	The specific mitigation comprises the following: watering of the construction areas 12 times per day to reduce dust emissions by 91.7%, with reference to the "Control of Open Fugitive Dust Sources" (USEPA AP-42). The amount of water to be applied would be 0.91L/m^2 for the respective watering frequency;	To minimize dust emission during construction works	All relevant works sites, conveyor belts and stockpiles	Contractor and Sub-contractors	APCO / EIAO	Y	Y		^
	Dust enclosures with watering would be provided along the loading ramps and conveyor belts for unloading the C&D materials to the barge for dust suppression; and								N/A(1)
	3-sided barriers around the stockpiling areas WA3 and WA4.								^
S2.3.1.2	The dust control measures detailed below shall also be incorporated into the Contract Specification where practicable as an integral part of good construction practice: Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather;	To minimize dust emission during construction works	All relevant works sites	Contractor and Sub-contractors	APCO / EIAO	Y	Y		^
	Use of frequent watering for particularly dusty construction areas and areas close to ASRs;								^
	Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines;								^
	Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs;								^
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;								^
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								^
	Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit;								N/A(1)

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						D	C	O	
	Routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs;								^
	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;								#
	Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; and								N/A(1)
	Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.								N/A(1)
Noise Impact									
S3.4.1.1	The use of quieter plant, including Quality Powered Mechanical Equipment (QPME) is specified for the list of equipment: - Concrete lorry mixer - Dump Truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne - Generator, Super Silenced, 70 dB(A) at 7m - Poker, vibratory, Hand-held (electric) - Water Pump, Submersible (Electric) - Mobile Crane - KOBELCO CKS900 - Excavator, wheeled/tracked - HYUNDAI R80CR-9	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^
S3.4.1.1	Use of temporary or fixed noise barriers with a surface density of at least 10kg/m^2 to screen noise from movable and stationary plant.	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^
S3.4.1.1	Use of enclosures with covers at top and three sides and a surface density of at least 10kg/m^2 to screen noise from generally static noisy plant such as air compressors.	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)
S3.4.1.1	Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc.	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		#
S3.4.1.1	Proper fitting of silencers and mufflers on the ventilation fans.	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)

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						D	C	O	
S3.4.1.1	Implementation of good site practice: Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period;	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^
	Mobile plant, if any, should be sited as far from NSRs as possible;								^
	Plant known to emit noise strongly in one direction should, wherever possible, be properly orientated so that the noise is directed away from the nearby NSRs;								^
	Use of site hoarding as a noise barrier to screen noise at low level NSRs;								^
	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum; and								^
	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities.								^
	The advancing speed of the TBM should be restricted to 2m/hr in order to ensure compliance with the daytime ground-borne noise limits.								N/A
Water Quality									

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						D	C	O	
S4.2.1.1	In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures shall include the following: Surface run-off from the construction site, including all Works Areas, will be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. At the establishment of works sites and works areas including the barging point, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to divert the storm water to the silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction and the catch-pits and perimeter channels would be constructed in advance of site formation works and earthworks;	To control water quality impact from construction site runoff and general construction activities	All works sites	Contractor and Sub-contractors	Water Pollution Control Ordinance / ProPECC PN 1/94		Y		^

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						D	C	O	
	Dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas and Works Areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap;								^
	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The sizes may vary depending upon the flow rate, but for a flow rate of $0.1m^3/s$, a sedimentation basin of $30m^3$ would be required and for a flow rate of $0.5m^3/s$ the basin would be $150m^3$. All effluent discharged from the construction site should comply with the standards stipulated in the TM-DSS. The detailed design of the sand/silt traps shall be undertaken by the Contractor prior to the commencement of construction;								N/A(1)
	In accordance with ProPECC PN 1/94, the construction works should be programmed to minimise surface excavation works during rainy seasons (April to September), as far as practicable. All exposed earth areas should be completed and vegetated as soon as possible after the earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means;								^
	The overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of inclement weather and the reduction of surface sheet flows;								^
	All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and grits should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;								^
	Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;								^

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						D	C	O	
	Open stockpiles of construction materials (for example, aggregates, sand and fill material) should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system;								^
	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers;								^
	Precautions to be taken at any time of the year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted and during or after rainstorms, are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events;								N/A(1)
	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities should be provided at the exit of every construction site where practicable. Wash- water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-washing bay to public roads should be paved with sufficient backfall toward the wheel- washing bay to prevent vehicle tracking of soil and silty water to public roads and drains;								^
	Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources, specifically Works Areas WA1, WA2, WA4 and WA5 where plant maintenance is proposed. Oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain;								N/A(1)
	The construction solid waste, debris and rubbish on-site should be collected, handled and disposed of properly to avoid causing any water quality impacts. The requirements for solid waste management are detailed in Section 11 Waste Management of this EIA report; and								^
	All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching the nearby WSRs.								#

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						D	C	O	
S4.2.1.1 and 4.3.1.5	There is a need to apply to the EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Minimum distances of 100m should be maintained between the discharge points of construction site effluent and the existing seawater intakes. The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc, can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license	To control water quality impact from effluent discharge from construction site	All works sites	Contractor and Sub-contractors	Water Pollution Control Ordinance		Y		N/A(1)
S4.2.1.1	Specific mitigation measures for the tunnelling works using TBM, soft ground and mechanical excavation techniques should include the following: The cut-and-cover tunnelling works should be conducted sequentially as far as practicable to limit the amount of construction wastewater generated from the exposed areas during the wet season (April to September);	To minimize construction water quality impact from tunnelling and excavation works	All tunnelling and excavation portion	Contractor and Sub-contractors	TMEIA TMwater ProPECC PN 1/94 WPCO		Y		N/A
	Uncontaminated discharge should pass through settlement tanks prior to discharge;								N/A
	If contaminated groundwater is found during the course of the works, no direct discharge of groundwater from contaminated areas should be adopted. Any contaminated groundwater should be properly treated in compliance with the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit should deploy suitable treatment processes (e.g. oil interceptor/activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as TPH) to an undetectable range;								N/A
	If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS;								N/A

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						D	C	O	
	The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor;								N/A
	The wastewater with high concentrations of SS should be treated such as by settlement in tanks with sufficient retention time before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater.								N/A

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						D	C	O	
S4.2.1.1	In order to prevent any accidental release of bentonite slurry from getting into the surrounding environment, the following specific control measures shall be followed to reduce the risk and impacts of accidental spillage: All bentonite slurry should be stored in a container that resistant to corrosion, maintained in good conditions and securely closed;	To control water quality impact from bentonite slurry	All relevant works sites	Contractor and Sub-contractors	WPCO		Y		^
	The container should be labelled in English and Chinese and note that the container is for storage of bentonite slurry only;								^
	The storage container should be placed on an area of impermeable flooring and bunded with capacity to accommodate 110% of the volume of the container size or 20% by volume stored in the area and enclosed with at least 3 sides;								N/A(1)
	The storage container should be sufficiently covered to prevent rainfall entering the container or bunded area (water collected within the bund must be tested and disposed of as chemical waste, if necessary);								^
	An emergency clean up kit shall be readily available where bentonite fluid will be stored or used; and								N/A(1)
	The handling and disposal of bentonite slurries should be undertaken in accordance within ProPECC PN 1/94. Surplus bentonite slurries used in construction works shall be reconditioned and reused wherever practicable. Residual bentonite slurry shall be disposed of from the site as soon as possible as stipulated in Clause 8.56 of the General Specification for Civil Engineering Works. The Contractor should explore alternative disposal outlets for the residual bentonite slurry (dewatered bentonite slurry to be disposed to a public filling area and liquid bentonite slurry, if mixed with inert fill material, to be disposed to a public filling area) and disposal at landfill should be the last resort.								N/A(1)

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						D	C	O	
S4.2.1.1	The proposed barging point at South Apron will not involve marine works like dredging or modifying the submerged portion of the existing seawall. As such, no direct adverse water quality impacts are anticipated during its construction or operation. However, mitigation measures as outlined above should be applied to minimise water quality impacts from site run-off and temporary open stockpiles of spoil at the proposed barging point, where appropriate. Other good site practices include: All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;	To minimize construction water quality impact from barging point	Barging Point	Contractor and Sub-contractors	EIAO-TM WPCO		Y		N/A(1)
	All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;								^
	Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site; and								N/A(1)
	Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.								N/A
S4.2.1.1	If chemical toilets and sewage holding tanks are required for handling sewage generated by the construction workforce, a licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize construction water quality impact from sewage and effluent	All works sites	Contractor	WPCO		Y		^
S4.2.1.1	In order to protect against impacts to the surrounding marine waters of the KTTS and Victoria Harbour in the event of an accidental spillage of fuel or oil, the Contractor will be required to prepare a spill response plan to the satisfaction of AFCD, EPD, FSD, Police, TD and WSD to define procedures for the control, containment and clean-up of any spillage that could occur on the construction site.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)

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						D	C	O	
S4.2.1.1	The Contractor must, also, register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport;	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		^
	Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and								N/A(1)
	Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.								^
S4.2.1.1	The road drainage in the tunnel should pass through oil interceptors to remove oil, and grease before being discharged into the public storm water drainage system;	To mitigate runoff from tunnel during the operational phase	Tunnel	CEDD	WPCO			Y	N/A
	Silt traps and oil interceptors should be cleaned and maintained regularly; and								N/A
	The oily contents of oil interceptors should be transferred to an appropriate disposal facility, or to be collected for reuse, if possible.								N/A

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						D	C	O	
Marine Ecology									
S5.3.1.1	Good construction practice measures have been recommended to be implemented as follows: Avoid damage and disturbance to the remaining and surrounding natural habitat;	Minimize waste generation during construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3		Y		N/A(1)
	Placement of equipment in designated areas within the existing disturbed land;								N/A(1)
	Spoil heaps should be covered at all times;								N/A(1)
	Construction activities should be restricted to the designated works areas; and								N/A(1)
	Disturbed areas to be reinstated immediately after completion of the works.								N/A(1)
Fisheries									
S6.2.1.2	No fisheries specific mitigation measures.								

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						D	C	O	
Landscape and Visual									
S7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		^
S7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		N/A
S7.2.1.2	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	To prevent unnecessary dust and dirt contaminating the air and adjacent areas.	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
S7.2.1.2	Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.	To mitigate potential visually obtrusive areas	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
S7.2.1.2	Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.	To mitigate and screen any potential visually obtrusive areas and enhance urban environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
S7.2.1.2	All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.	To mitigate light pollution and adverse visual impacts on surrounding environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
S7.2.1.2	Compensatory tree planting shall be incorporated along all roadside amenity areas affected by the construction works. The required numbers and locations of compensatory trees shall be determined and agreed with the Government during Tree Removal Application process under ETWB TCW No. 3/2006.	To reinstate and maximise compensatory tree numbers to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)

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S7.2.1.2	Compensatory tree planting shall be incorporated by the Project. The required numbers of compensatory trees shall follow the requirements of ETWB TCW No. 3/2006. Loss of amenity area adjacent to the Kwun Tong By-pass and planting areas in KTD South Apron will be mitigated by the creation of the Kai Tak South Apron: Amenity Area, which will be equal to or larger than the current provision.	To reinstate and maximise compensatory tree	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)
S7.2.1.2	Trees and shrubs and climbers etc. shall be planted to soften and screen proposed roads, central strip and associated structure, and to enhance streetscape greening effect where appropriate.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	All works area, excavated area and disturbed area for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments.	To reinstate and maximise hard and soft landscape areas to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	Tunnel portals and all above ground structures shall be sensitively designed to ensure the element with colour, texture and tonal quality being compatible to the existing urban context. Trees and shrub planting to minimize the potential adverse landscape and visual impacts shall be included where space permits. Roof top greening and vertical greening shall also be provided.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A

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						D	C	O	
Cultural Heritage									
S8.2.1.1 and 8.2.1.2	No culture heritage specific mitigation measures								
Waste Management Implication									
S9.2.1.2	The requirements as stipulated in the ETWB TC(W) No.19/2005 Environmental Management on Construction Sites and the other relevant guidelines should be included in the Particular Specification for the future contractor as appropriate.	To keep trace of the generation, minimization, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A
S9.2.1.2	The future contractor should be requested to submit an outline Waste Management Plan (WMP) prior to the commencement of construction work, in accordance with the ETWB TC(W) No.19/2005 so as to provide an overall framework of waste management and reduction. The WMP should include: - Waste management policy; - Record of generated waste; - Waste reduction target; - Waste reduction programme; - Role and responsibility of waste management team; - Benefit of waste management; - Analysis of waste materials; - Reuse, recycling and disposal plans; - Transportation process of waste products; and - Monitoring and action plan.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
S9.2.1.2	The waste management hierarchy should be strictly followed. This hierarchy should be adopted to evaluate the waste management options in order to maximise the extent of waste reduction and cost reduction. The records of quantities of waste generated, recycled and disposed (locations) should be properly documented.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
S9.2.1.2	A trip-ticket system should be established in accordance with DevB TC(W) No. 6/2010 and Waste Disposal (Charges for Disposal of Construction Waste) Regulation to monitor the disposal of public fill and solid wastes at public filling facilities and landfills, and to control fly-tipping. A trip-ticket system would be included as one of the contractual requirements for the future contractor to strictly implement. The Engineer would also regularly audit the effectiveness of the system.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)

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						D	C	O	
S9.2.1.2	A recording system for the amount of waste generated, recycled and disposed (locations) should be established. The future contractor should also provide proper training to workers regarding the appropriate concepts of site cleanliness and waste management procedures, e.g. waste reduction, reuse and recycling all the time.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	The CEDD should be timely notified of the estimated spoil volumes to be generated and the PFC should be notified and agreement sort on the disposal of surplus inert C&D materials e.g. good quality rock during detailed design of the Trunk Road T2 Project. Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and to ensure acceptability at public filling areas or reclamation sites.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
S9.2.1.2	Inert C&D materials from road pavement would be reused for backfilling where possible	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
S9.2.1.2	TBM generated alluvium and other C&D materials should be treated at a slurry treatment plant prior to transferring to Public Fill Reception Facilities.	To minimize, reuse and disposal of C&D materials	TMB works area / during TBM works	Contractor	DevB TC(W) No.6/2010		Y		^
S9.2.1.2	The site and surroundings should be kept tidy and litter free.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^

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

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S9.2.1.2	Standard formwork or pre-fabrication should be used as far as practicable to minimise the C&D materials arising. The use of more durable formwork or plastic facing for construction works should also be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should be carefully planned in order to avoid over-ordering and wastage.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	The future contractor should recycle as many C&D materials as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
S9.2.1.2	All falsework should be steel instead of wood as far as practicable.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S9.2.1.2	Chemical waste producers should register with the EPD and chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: - Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; - Having a capacity of <450L unless the specifications have been approved by the EPD; and - Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. - Clearly labelled and used solely for the storage of chemical wastes; - Enclosed with at least 3 sides; - Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; - Adequate ventilation; - Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and - Incompatible materials are adequately separated.	To properly store the chemical waste within works sites and works areas	All areas / throughout construction period	Contractor	Code of Practice on the Packaging, Handling and Storage of Chemical Wastes		Y		^
S9.2.1.2	Waste oils, chemicals or solvents should not be disposed of to drain.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	EIAO TM		Y		^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S9.2.1.2	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them. Night soil should be regularly collected by licensed collectors.	To ensure proper disposal of sewage sludge	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins should be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By- laws. In addition, general refuse should be cleared daily and disposed of to the nearest licensed landfill. Burning of refuse on construction sites is prohibited.	To separate the general refuse from other waste types and proper disposal of the refuse	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		*
S9.2.1.2	All waste containers should be in a secure area on hardstanding.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		^
S9.2.1.2	Aluminium cans should be collected and recovered from the waste stream by reputable collectors if they are segregated and easily accessible. Separately labelled bins for their deposition should be provided as far as practicable.	To implement on-site sorting facilitating reuse and recycling of materials as well as proper disposal of waste	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
S9.2.1.2	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the future contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	To separate the general refuse from other waste types and proper disposal of the refuse	Site Offices / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S9.2.1.2	Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	To implement good site practice for handling, sorting reuse and recycling of wastes	Contract Mobilisation	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
S9.2.1.2	During construction phase, regular site inspections and supervision of the waste management procedures shall be undertaken as part of the EM&A procedures.	To ensure proper control, all waste is removed from site areas as appropriate and illegal disposal of waste is not being undertaken	All areas / throughout construction period	Contractor	EIAO TM		Y		^

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

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

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

Reporting Month: September 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/ summon and prosecution	Investigation/Mitigation Action	Status
A02	Launching Shaft Area	5 September 2024	A complaint regarding dust nuisance, suspected to be caused by the construction works at the Launching Shaft area	• The dust emission was related to the bentonite refilling activities. • The following recommendations are made to contractor to further enhance the mitigation measures: 1. Conduct regular maintenance for several plants which used for refilling work. 2. Reduce the maximum capacity of silo to 85% of total volume to prevent recurrence.	Closed
W04	Launching Shaft Area	24 September 2024	A complaint regarding untreated water discharged into an unknown underground pipe inside the site via a blue plastic hose, muddy water also appeared at seafront of T2 site	• There is no direct evidence that the muddy water at seafront of T2 site was caused by the construction activities. • The following recommendations are made to contractor to further enhance the mitigation measures: 1. To avoid misleading, a water pump was directly connected from Cut & Cover Shaft to the designated sump pit. 2. Conduct regular maintenance for wastewater treatment facilities to maintain the quality of effluent.	Closed

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

Log Ref.	Location	Received Date	Details of Complaint/warning/ summon and prosecution	Investigation/Mitigation Action	Status
				3. Conduct regular water quality monitoring. 4. Carry out regular visual inspection to the Kai Tak Approach Channel (near the outfall of discharge point) to prevent illegal discharge of untreated water.	

Remarks:
Two environmental complaints were received in the reporting period.
No environmental warning/summon and prosecution were received in the reporting period.

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

Table L2 Cumulative Log for Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

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

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

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

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

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

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

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

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Nature	Status
			construction works near Cheung Yip Street after 21:00.	sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semi-enclosure/noise barrier and provide regularly maintenance for PMEs.		
#W02	Launching Shaft Area	22 November 2023	A complaint regarding to the number of fish die-off at the Kwun Tong Typhoon Shelter.	– There is no direct evidence that the dead fish floating near the Kwun Tong Pier were caused by the construction activities. – The following recommendations are made to contractor to further enhance the mitigation measures: – 1) Conduct regular maintenance for wastewater treatment facilities to maintain the quality of effluent. – 2) Conduct regular water quality monitoring – 3) Carry out regular visual inspection to the Kai Tak Approach Channel (near the outfall of discharge point) to prevent illegal discharge of untreated water.	Water	Closed
#N13	Portion Q1	23 April 2024	A verbal complaint regarding the	– The complaint is considered as project-related. – Despite the lifting operation being carried out at the site during the night, the contractor was in	Noise	Closed

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Nature	Status
			noise nuisance, generated from the construction works nearby the Wai Lok Street building at 10:20 pm, was received by EPD	possession of a valid construction noise permit (GW-RE0328-24). All construction activities were performed in accordance with legal regulations, and no violations of the law were found. – In addition, the Contractor shall review the construction schedule, priorities the work sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semi enclosure/noise barrier and provide regularly maintenance for PMEs. – As the complaint was considered as project related, the contractor had implemented the relevant mitigation measures to minimize the noise impact including:1) Conduct regular noise monitoring.2) Conduct regular maintenance for all Powered Mechanical Equipment to minimize the noise generated from engines. – Displayed the CNP at the gates of Portion Q.		

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Nature	Status
#W03	Launching Shaft Area	23 July 2024	A complaint regarding wastewater discharge at an outlet near Children's Hospital	– There is no direct evidence that the discharged yellowish wastewater was caused by the construction activities. – The following recommendations are made to contractor to further enhance the mitigation measures: – 1) Conduct regular maintenance for wastewater treatment facilities to maintain the quality of effluent. – 2) Conduct regular water quality monitoring. – 3) Carry out regular visual inspection to the Kai Tak Approach Channel (near the outfall of discharge point) to prevent illegal discharge of untreated water.	Water	Closed
#A02	Launching Shaft Area	5 September 2024	A complaint regarding dust nuisance, suspected to be caused by the construction works at the	– The dust emission was related to the bentonite refilling activities. – The following recommendations are made to contractor to further enhance the mitigation measures: – 1) Conduct regular maintenance for several plants which used for refilling work.	Air	Closed

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Nature	Status
			Launching Shaft area	– 2) Reduce the maximum capacity of silo to 85% of total volume to prevent recurrence.		
#W04	Launching Shaft Area	24 September 2024	A complaint regarding untreated water discharged into an unknown underground pipe inside the site via a blue plastic hose, muddy water also appeared at seafront of T2 site	– There is no direct evidence that the muddy water at seafront of T2 site was caused by the construction activities. – The following recommendations are made to contractor to further enhance the mitigation measures: – 1) To avoid misleading, a water pump was directly connected from Cut & Cover Shaft to the designated sump pit. – 2) Conduct regular maintenance for wastewater treatment facilities to maintain the quality of effluent. – 3) Conduct regular water quality monitoring. – 4) Carry out regular visual inspection to the Kai Tak Approach Channel (near the outfall of discharge point) to prevent illegal discharge of untreated water	Water	Closed

APPENDIX M
SUMMARY OF EXCEEDANCE

Environmental Permit No.: EP-451/2013
Environmental Team for Trunk Road T2

Appendix M – Summary of Exceedance

Reporting Month: September 2024

(A) Exceedance Report for Air Quality

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

(B) Exceedance Report for Construction Noise

Action Level for Construction Noise

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

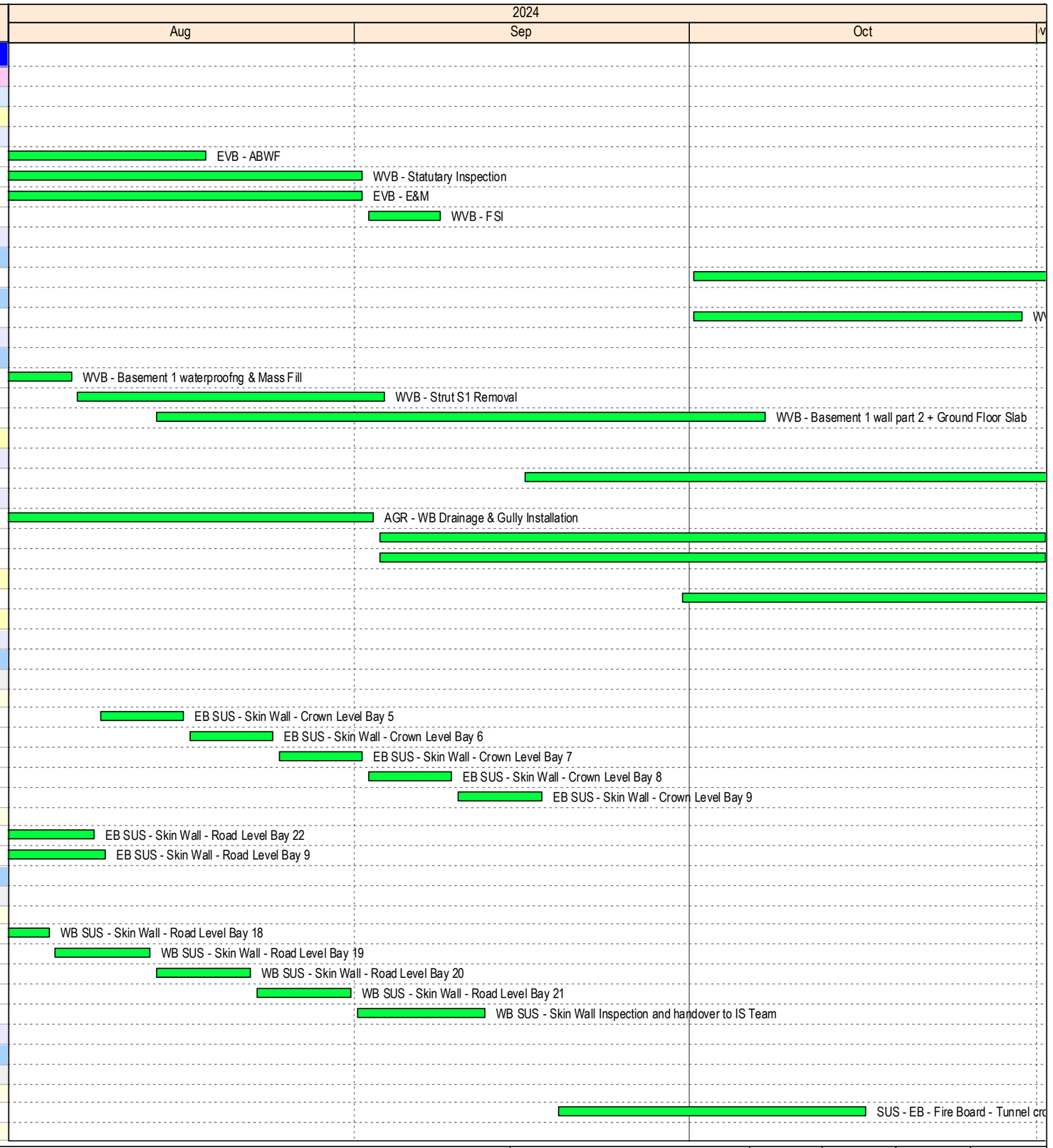
Limit Level for Construction Noise

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

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

APPENDIX N
TENTATIVE CONSTRUCTION PROGRAMME

Activity ID	Activity Name	Dur	Start	Finish
HKT2 P65Bis 3-mth rolling (Aug24 - Oct24)		974	20-Jul-22 A	19-Mar-25
Construction		974	20-Jul-22 A	19-Mar-25
Trunk Road T2		974	20-Jul-22 A	19-Mar-25
01 West Vemtilation Building - WVB		166	02-Jun-24	14-Nov-24
WVB - Main works		99	02-Jun-24	08-Sep-24
A229447190	EVB - ABWF	78	02-Jun-24*	18-Aug-24
A229446640	WVB - Statutary Inspection	92	02-Jun-24*	01-Sep-24
A229447200	EVB - E&M	92	02-Jun-24*	01-Sep-24
A229446641	WVB - FSI	7	02-Sep-24	08-Sep-24
WVB - Remaining works after FSI		45	01-Oct-24	14-Nov-24
External Works		45	01-Oct-24	14-Nov-24
A229447220	WVB - External Drainage (DPR side)	45	01-Oct-24*	14-Nov-24
Architectural Finishes		30	01-Oct-24	30-Oct-24
A229447260	WVB - Fins & Cladding (KFR side)	30	01-Oct-24*	30-Oct-24
WVB - Substructure		83	10-Jul-24	07-Oct-24
Basement Structure		83	10-Jul-24	07-Oct-24
A229449840	WVB - Basement 1 waterproofng & Mass Fill	27	10-Jul-24	06-Aug-24
A229449810	WVB - Strut S1 Removal	27	07-Aug-24	03-Sep-24
A229449790	WVB - Basement 1 wall part 2 + Ground Floor Slab	50	14-Aug-24	07-Oct-24
02 At-Grade Road -AGR		200	15-Jun-24 A	31-Dec-24
Kiosk		97	16-Sep-24	31-Dec-24
A229419065	Kiosk - fabrication & delivery	97	16-Sep-24*	31-Dec-24
AGR - Road & Drainage works		140	15-Jun-24 A	01-Nov-24
AG1030	AGR - WB Drainage & Gully Installation	74	15-Jun-24 A	02-Sep-24
AG1020	AGR - EB Drainage & Gully Installation	54	03-Sep-24	01-Nov-24
AG1120	AGR - WB Road Side Barrier	60	03-Sep-24	01-Nov-24
03 Depressed Road - DPR		45	30-Sep-24	13-Nov-24
DPR10000	DPR - Temporary Platform removal	45	30-Sep-24*	13-Nov-24
05 Supporting Underground Structure - SUS		157	02-Jul-24	05-Dec-24
SUS - Tunnel Structure Works		55	25-Jul-24	17-Sep-24
Eastbound Structure		55	25-Jul-24	17-Sep-24
EB Skin Wall		55	25-Jul-24	17-Sep-24
Crown		40	09-Aug-24	17-Sep-24
A229448430	EB SUS - Skin Wall - Crown Level Bay 5	8	09-Aug-24	16-Aug-24
A229448440	EB SUS - Skin Wall - Crown Level Bay 6	8	17-Aug-24	24-Aug-24
A229448450	EB SUS - Skin Wall - Crown Level Bay 7	8	25-Aug-24	01-Sep-24
A229448460	EB SUS - Skin Wall - Crown Level Bay 8	8	02-Sep-24	09-Sep-24
A229448470	EB SUS - Skin Wall - Crown Level Bay 9	8	10-Sep-24	17-Sep-24
Road level		16	25-Jul-24	09-Aug-24
A229448080	EB SUS - Skin Wall - Road Level Bay 22	15	25-Jul-24*	08-Aug-24
A229447951	EB SUS - Skin Wall - Road Level Bay 9	15	26-Jul-24*	09-Aug-24
Westbound Structure		48	27-Jul-24	12-Sep-24
WB Skin Wall		48	27-Jul-24	12-Sep-24
Road level		48	27-Jul-24	12-Sep-24
A229448270	WB SUS - Skin Wall - Road Level Bay 18	9	27-Jul-24*	04-Aug-24
A229448280	WB SUS - Skin Wall - Road Level Bay 19	9	05-Aug-24	13-Aug-24
A229448290	WB SUS - Skin Wall - Road Level Bay 20	9	14-Aug-24	22-Aug-24
A229448300	WB SUS - Skin Wall - Road Level Bay 21	9	23-Aug-24	31-Aug-24
A229448490	WB SUS - Skin Wall Inspection and handover to IS Team	12	01-Sep-24	12-Sep-24
SUS - Tunnel Civil Works		157	02-Jul-24	05-Dec-24
Eastbound TCW		157	02-Jul-24	05-Dec-24
EB Fireboard		99	02-Jul-24	16-Oct-24
Crown level		24	19-Sep-24	16-Oct-24
A229447820	SUS - EB - Fire Board - Tunnel crown (skin wall)	24	19-Sep-24	16-Oct-24
Road level		81	02-Jul-24	25-Sep-24



◆ ◆ Milestones
Planned Bar
Actual Bar

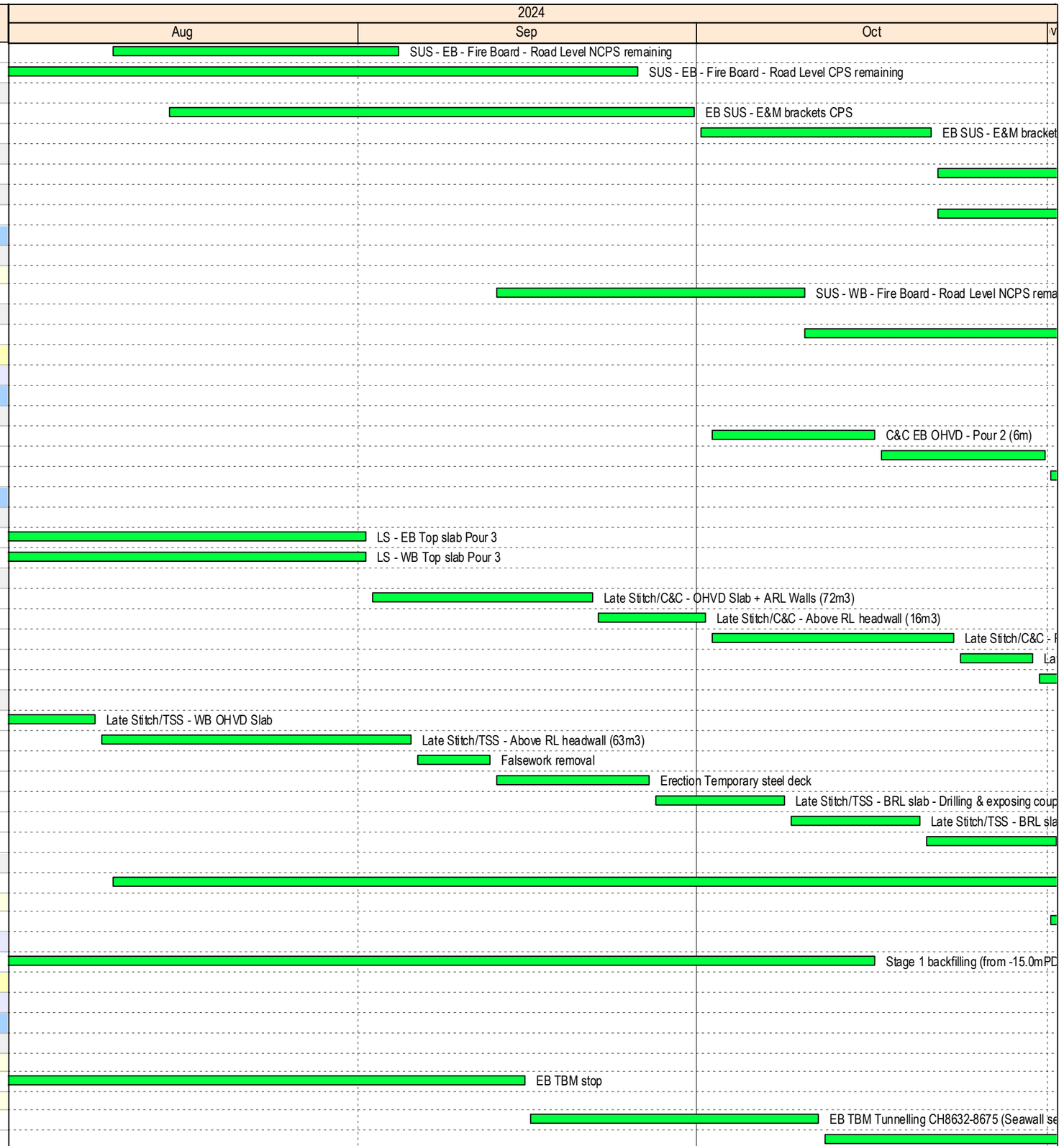
ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron

Three Months Rolling Programme (Aug24 - Oct24)

Date	Revision	Checked	Approved

Appendix A

Activity ID	Activity Name	Dur	Start	Finish
A8920	SUS - EB - Fire Board - Road Level NCPS remaining	24	10-Aug-24	04-Sep-24
A229448480	SUS - EB - Fire Board - Road Level CPS remaining	81	02-Jul-24*	25-Sep-24
EB E&M brackets		68	15-Aug-24	21-Oct-24
A229446300	EB SUS - E&M brackets CPS	47	15-Aug-24*	30-Sep-24
A229446330	EB SUS - E&M brackets NCPS	21	01-Oct-24*	21-Oct-24
EB TCSS provision		24	22-Oct-24	14-Nov-24
SUS10070	SUS EB - TCSS provision	24	22-Oct-24	14-Nov-24
EB Road Barrier		45	22-Oct-24	05-Dec-24
SUS10060	SUS EB - Road Barrier	45	22-Oct-24	05-Dec-24*
Westbound TCW		52	13-Sep-24	03-Nov-24
WB Fireboard		24	13-Sep-24	10-Oct-24
Road level		24	13-Sep-24	10-Oct-24
A8490	SUS - WB - Fire Board - Road Level NCPS remaining	24	13-Sep-24	10-Oct-24
WB E&M brackets		24	10-Oct-24	03-Nov-24
A229446310	WB SUS - E&M brackets NCPS	24	10-Oct-24	03-Nov-24
06 Launching Shaft & C&C Tunnel - LSCC		215	07-May-24 A	07-Dec-24
LSCC - Structure works		215	07-May-24 A	07-Dec-24
Cut & Cover Tunnel		45	02-Oct-24	15-Nov-24
C&C OHVD		45	02-Oct-24	15-Nov-24
LSCC10215	C&C EB OHVD - Pour 2 (6m)	15	02-Oct-24	16-Oct-24
LSCC10220	C&C EB OHVD - Pour 3 (5m)	15	17-Oct-24	31-Oct-24
LSCC10235	C&C WB OHVD - Pour 2 (6m)	15	01-Nov-24	15-Nov-24
Launching Shaft		215	07-May-24 A	07-Dec-24
LS - Top Slab		118	07-May-24 A	01-Sep-24
A229448530	LS - EB Top slab Pour 3	118	07-May-24 A	01-Sep-24
A229448560	LS - WB Top slab Pour 3	118	07-May-24 A	01-Sep-24
Late Stitch/C&C		73	02-Sep-24	13-Nov-24
LSCC10270	Late Stitch/C&C - OHVD Slab + ARL Walls (72m3)	20	02-Sep-24	21-Sep-24
LSCC10280	Late Stitch/C&C - Above RL headwall (16m3)	10	22-Sep-24	01-Oct-24
LSCC10290	Late Stitch/C&C - Roof Slab (135m3) + falsework removal	22	02-Oct-24	23-Oct-24
LSCC10291	Late Stitch/C&C - Massfill breaking	7	24-Oct-24	30-Oct-24
LSCC10330	Late Stitch/C&C - Base Slab to Road Slab (NCPS)	14	31-Oct-24	13-Nov-24
Late Stitch/TSS		124	01-Jul-24	01-Nov-24
LSCC10170	Late Stitch/TSS - WB OHVD Slab	39	01-Jul-24*	08-Aug-24
LSCC10260	Late Stitch/TSS - Above RL headwall (63m3)	28	09-Aug-24	05-Sep-24
LSCC10261	Falsework removal	7	06-Sep-24	12-Sep-24
LSCC10271	Erection Temporary steel deck	14	13-Sep-24	26-Sep-24
LSCC10300	Late Stitch/TSS - BRL slab - Drilling & exposing coupler (1200nos)	12	27-Sep-24	08-Oct-24
LSCC10310	Late Stitch/TSS - BRL slab - Rebar fixing	12	09-Oct-24	20-Oct-24
LSCC10320	Late Stitch/TSS - BRL slab - Curved formwork	12	21-Oct-24	01-Nov-24
LS - Miscellaneous Structural Openings		120	10-Aug-24	07-Dec-24
A229448610	Temporary cable procurement 4mth lead time (TBC)	120	10-Aug-24*	07-Dec-24
05 RC works at MIMEP Opening for Service Galleries Works (subject to BYME & IS team cc		28	01-Nov-24	28-Nov-24
A229448650	Stage 1 - Narrow the opening to 3.5m*2m RC works	28	01-Nov-24*	28-Nov-24
LSCC - Backfilling & Dwall Dismantling		161	09-May-24 A	16-Oct-24
A229447760	Stage 1 backfilling (from -15.0mPD to -10.5mPD) 12000m3	161	09-May-24 A	16-Oct-24
07 Tunnel Sub-sea (TSS)		329	28-Jan-24 A	21-Dec-24
Tunnel Excavation - TBM from Kai Tak		298	11-Feb-24 A	04-Dec-24
Eastbound (EB) - TBM S1282		287	11-Feb-24 A	23-Nov-24
TBM Tunnelling		287	11-Feb-24 A	23-Nov-24
CP21-26		218	11-Feb-24 A	15-Sep-24
EBTBM1250	EB TBM stop	218	11-Feb-24 A	15-Sep-24
CP26-30		69	16-Sep-24	23-Nov-24
EBTBM1260	EB TBM Tunnelling CH8632-8675 (Seawall section)	26	16-Sep-24	11-Oct-24
EBTBM1270	EB TBM Tunnelling CH8675-8748 (Seawall section)	43	12-Oct-24	23-Nov-24



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ED/2018/04 Trunk Road T2 and Infrastructure Works
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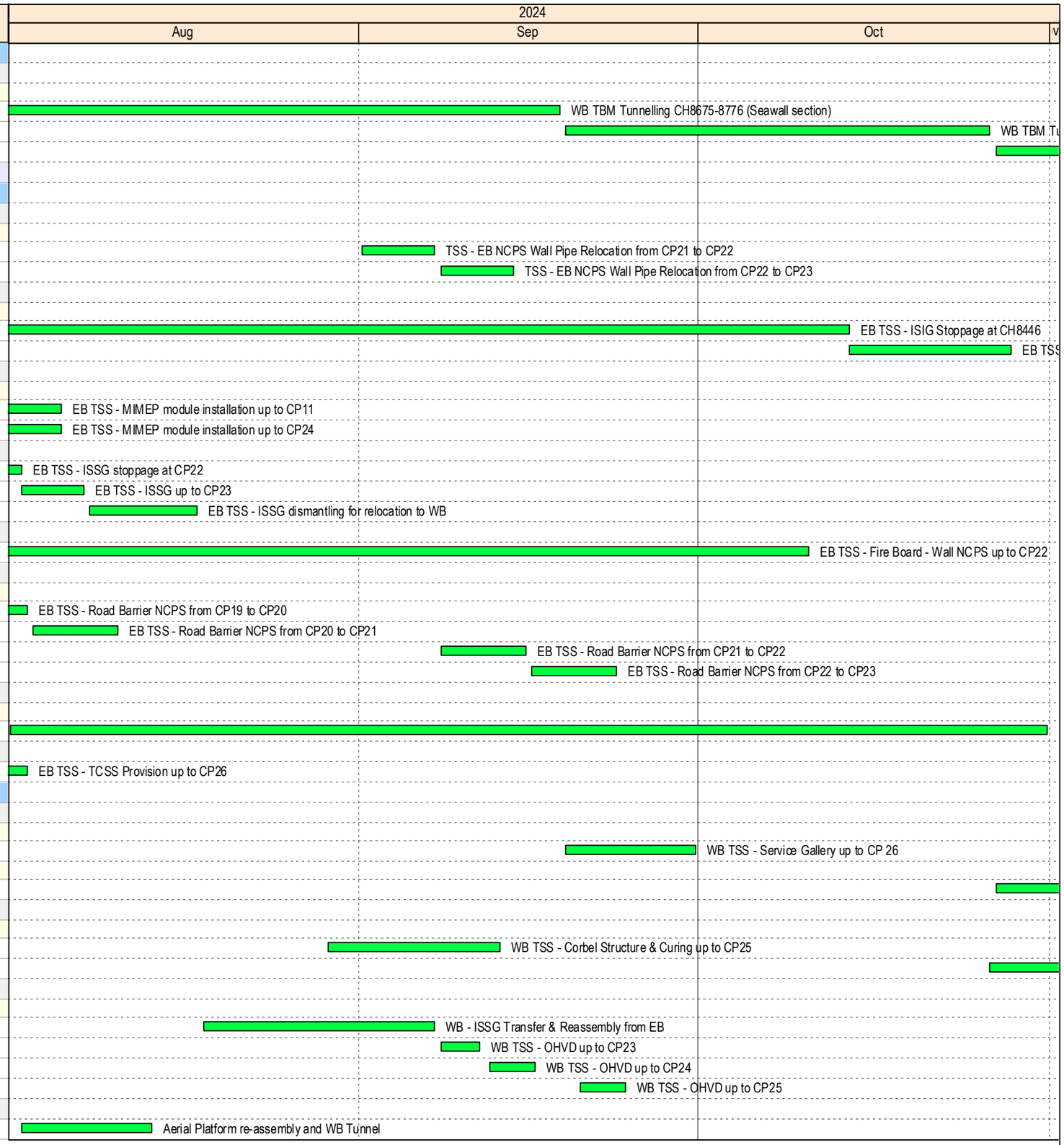
Three Months Rolling Programme (Aug24 - Oct24)

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
Westbound (WB) - TBM S1281		137	21-Jul-24	04-Dec-24
TBM Tunneling		137	21-Jul-24	04-Dec-24
CP26-31		137	21-Jul-24	04-Dec-24
A229444320	WB TBM Tunnelling CH8675-8776 (Seawall section)	60	21-Jul-24	18-Sep-24
A229444330	WB TBM Tunnelling CH8776-8875 (Pilot tunnel section)	38	19-Sep-24	26-Oct-24
A229445930	WB TBM Tunnelling CH8854-8975 (Pilot tunnel section)	39	27-Oct-24	04-Dec-24
Tunnel Civil Works (TCW) before TBM breakthough		329	28-Jan-24 A	21-Dec-24
Eastbound (EB)		278	28-Jan-24 A	31-Oct-24
Temporary Services		14	01-Sep-24	14-Sep-24
TBM slurry pipe relocation		14	01-Sep-24	14-Sep-24
A229447660	TSS - EB NCPS Wall Pipe Relocation from CP21 to CP22	7	01-Sep-24*	07-Sep-24
A229447670	TSS - EB NCPS Wall Pipe Relocation from CP22 to CP23	7	08-Sep-24	14-Sep-24
Service Gallery		198	08-Mar-24 A	28-Oct-24
CP21-26		198	08-Mar-24 A	28-Oct-24
A229446190	EB TSS - ISIG Stoppage at CH8446	184	08-Mar-24 A	14-Oct-24
A229428552	EB TSS - Service Gallery up to CP 25	14	14-Oct-24	28-Oct-24
Below Road Level Installation		56	03-Jun-24	05-Aug-24
MiMEP		56	03-Jun-24	05-Aug-24
A229444660	EB TSS - MIMEP module installation up to CP11	56	03-Jun-24	05-Aug-24
A229444690	EB TSS - MIMEP module installation up to CP24	56	03-Jun-24	05-Aug-24
OHVD		203	28-Jan-24 A	17-Aug-24
A229441810	EB TSS - ISSG stoppage at CP22	187	28-Jan-24 A	02-Aug-24
A229441820	EB TSS - ISSG up to CP23	6	02-Aug-24	07-Aug-24
A229447560	EB TSS - ISSG dismantling for relocation to WB	10	08-Aug-24	17-Aug-24
Fire Board - Road level		93	03-Jul-24	10-Oct-24
A229447570	EB TSS - Fire Board - Wall NCPS up to CP22	93	03-Jul-24	10-Oct-24
Road Barrier		60	26-Jul-24	23-Sep-24
NCPS		60	26-Jul-24	23-Sep-24
TC10120	EB TSS - Road Barrier NCPS from CP19 to CP20	8	26-Jul-24	02-Aug-24
TC10130	EB TSS - Road Barrier NCPS from CP20 to CP21	8	03-Aug-24	10-Aug-24
TC10140	EB TSS - Road Barrier NCPS from CP21 to CP22	8	08-Sep-24	15-Sep-24
TC10150	EB TSS - Road Barrier NCPS from CP22 to CP23	8	16-Sep-24	23-Sep-24
E&M Brackets		84	01-Aug-24	31-Oct-24
NCPS		84	01-Aug-24	31-Oct-24
A22180	EB TSS - E&M Brackets NCPS up to CP22	84	01-Aug-24*	31-Oct-24
TCSS Civil provision at OHVD soffit		27	06-Jul-24	02-Aug-24
A229418542	EB TSS - TCSS Provision up to CP26	27	06-Jul-24	02-Aug-24
Westbound (WB)		142	02-Aug-24	21-Dec-24
Service Gallery		46	19-Sep-24	03-Nov-24
CP21-26		12	19-Sep-24	30-Sep-24
A229445900	WB TSS - Service Gallery up to CP 26	12	19-Sep-24	30-Sep-24
CP26-31		8	27-Oct-24	03-Nov-24
A229424680	WB TSS - Service Gallery up to CP 27	8	27-Oct-24	03-Nov-24
Corbel		65	29-Aug-24	13-Nov-24
CP21-26		65	29-Aug-24	13-Nov-24
A229415231	WB TSS - Corbel Structure & Curing up to CP25	15	29-Aug-24	13-Sep-24
A229415232	WB TSS - Corbel Structure & Curing up to CP26	15	26-Oct-24	13-Nov-24
OHVD		38	18-Aug-24	24-Sep-24
CP26-30		38	18-Aug-24	24-Sep-24
TC3180	WB - ISSG Transfer & Reassembly from EB	21	18-Aug-24	07-Sep-24
TC3170	WB TSS - OHVD up to CP23	4	08-Sep-24	11-Sep-24
TC3160	WB TSS - OHVD up to CP24	4	12-Sep-24	16-Sep-24
TC3120	WB TSS - OHVD up to CP25	4	20-Sep-24	24-Sep-24
Fire Board - Tunnel Crown		66	02-Aug-24	06-Oct-24
D12425	Aerial Platform re-assembly and WB Tunnel	12	02-Aug-24	13-Aug-24



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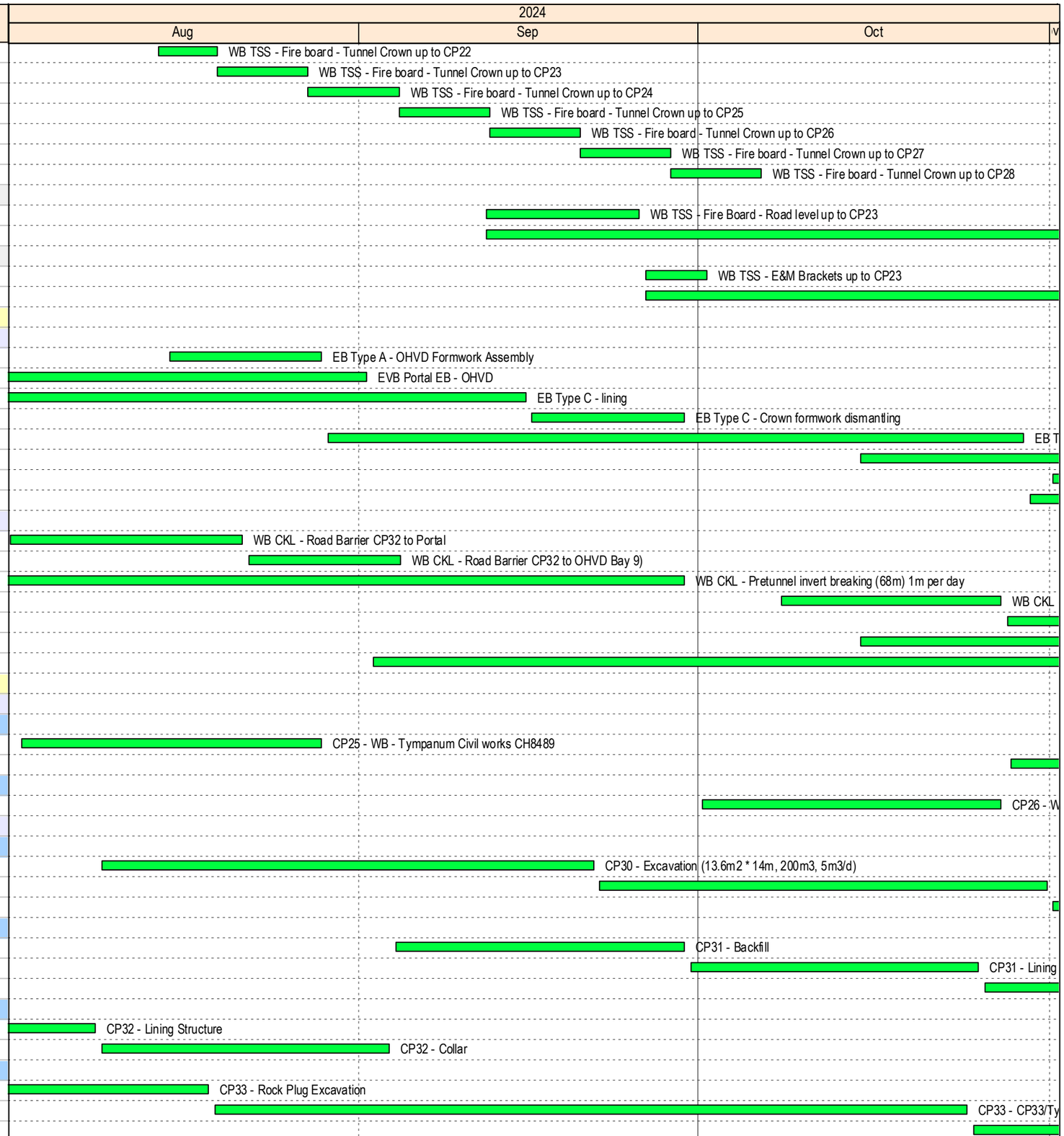
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Aug24 - Oct24)

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
D12435	WB TSS - Fire board - Tunnel Crown up to CP22	6	14-Aug-24	19-Aug-24
D12515	WB TSS - Fire board - Tunnel Crown up to CP23	8	19-Aug-24	27-Aug-24
D12525	WB TSS - Fire board - Tunnel Crown up to CP24	8	27-Aug-24	04-Sep-24
D12535	WB TSS - Fire board - Tunnel Crown up to CP25	8	04-Sep-24	12-Sep-24
D12545	WB TSS - Fire board - Tunnel Crown up to CP26	8	12-Sep-24	20-Sep-24
D12555	WB TSS - Fire board - Tunnel Crown up to CP27	8	20-Sep-24	28-Sep-24
D12565	WB TSS - Fire board - Tunnel Crown up to CP28	8	28-Sep-24	06-Oct-24
Fire Board - Road level		95	12-Sep-24	15-Dec-24
A229446450	WB TSS - Fire Board - Road level up to CP23	14	12-Sep-24	25-Sep-24
A229446510	CP22 to CP24	95	12-Sep-24	15-Dec-24
E&M Brackets		87	26-Sep-24	21-Dec-24
TC11060	WB TSS - E&M Brackets up to CP23	6	26-Sep-24	01-Oct-24
TC11240	WB TSS - E&M Brackets up to CP21-CP24	87	26-Sep-24	21-Dec-24
08 CKL Tunnel		213	02-Jun-24	31-Dec-24
Eastbound CKL		213	02-Jun-24	31-Dec-24
CKL10040	EB Type A - OHVD Formwork Assembly	14	15-Aug-24*	28-Aug-24
CKL10020	EVB Portal EB - OHVD	92	02-Jun-24*	01-Sep-24
CKL10070	EB Type C - lining	77	01-Jul-24*	15-Sep-24
CKL10130	EB Type C - Crown formwork dismantling	14	16-Sep-24	29-Sep-24
CKL10090	EB Type A - OHVD	62	29-Aug-24	29-Oct-24
CKL10220	EB Type A - E&M Brackets	30	15-Oct-24*	13-Nov-24
CKL10210	EB CKL - E&M Installation (before BT)	60	01-Nov-24*	30-Dec-24
CKL10140	EB Type C - OHVD	63	30-Oct-24*	31-Dec-24
Westbound CKL		132	24-Jul-24	02-Dec-24
CKL10030	WB CKL - Road Barrier CP32 to Portal	21	01-Aug-24*	21-Aug-24
CKL10050	WB CKL - Road Barrier CP32 to OHVD Bay 9)	14	22-Aug-24	04-Sep-24
CKL10060	WB CKL - Pretunnel invert breaking (68m) 1m per day	68	24-Jul-24	29-Sep-24
CKL10080	WB CKL - Fireboard CH9238 to CH9258 CPS & NCPS	20	08-Oct-24*	27-Oct-24
CKL10120	WB CKL - E&M Brackets (before BT up to OHVD Bay 11)	30	28-Oct-24	26-Nov-24
CKL10150	WB - Big Bulkhead wall rebuild	45	15-Oct-24*	28-Nov-24
CKL10100	EVB Portal WB - OHVD	92	02-Sep-24	02-Dec-24
09 Cross Passages		150	14-Jul-24	10-Dec-24
Cross Passages by Mini TBM (CP7 to CP29)		115	02-Aug-24	24-Nov-24
CP25		115	02-Aug-24	24-Nov-24
TD0110	CP25 - WB - Tympanum Civil works CH8489	27	02-Aug-24	28-Aug-24
TD0100	CP25 - EB - Tympanum Civil works CH8489	27	28-Oct-24	24-Nov-24
CP26		27	01-Oct-24	27-Oct-24
TD0210	CP26 - WB - Tympanum Civil works CH8588	27	01-Oct-24	27-Oct-24
Cross Passages @ CKL Tunnel (CP30 to CP33)		150	14-Jul-24	10-Dec-24
CP30 advance works		124	09-Aug-24	10-Dec-24
A229443620	CP30 - Excavation (13.6m2 * 14m, 200m3, 5m3/d)	44	09-Aug-24	21-Sep-24
A229428832	CP30 - Base Slab & Kicker	40	22-Sep-24	31-Oct-24
A229428842	CP30 - Lining & collar Structure	40	01-Nov-24	10-Dec-24
CP31 advance works		78	04-Sep-24	20-Nov-24
A229443880	CP31 - Backfill	26	04-Sep-24	29-Sep-24
A229438416	CP31 - Lining Structure	26	30-Sep-24	25-Oct-24
A229422640	CP31 - Collar	26	26-Oct-24	20-Nov-24
CP32		52	14-Jul-24	03-Sep-24
A229438436	CP32 - Lining Structure	26	14-Jul-24	08-Aug-24
A229422590	CP32 - Collar	26	09-Aug-24	03-Sep-24
CP33		126	24-Jul-24	26-Nov-24
A1710	CP33 - Rock Plug Excavation	26	24-Jul-24	18-Aug-24
A1720	CP33 - CP33/Type E Junction	67	19-Aug-24	24-Oct-24
A1980	CP33 - Lining Formwork Assembly	33	25-Oct-24	26-Nov-24



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ED/2018/04 Trunk Road T2 and Infrastructure Works
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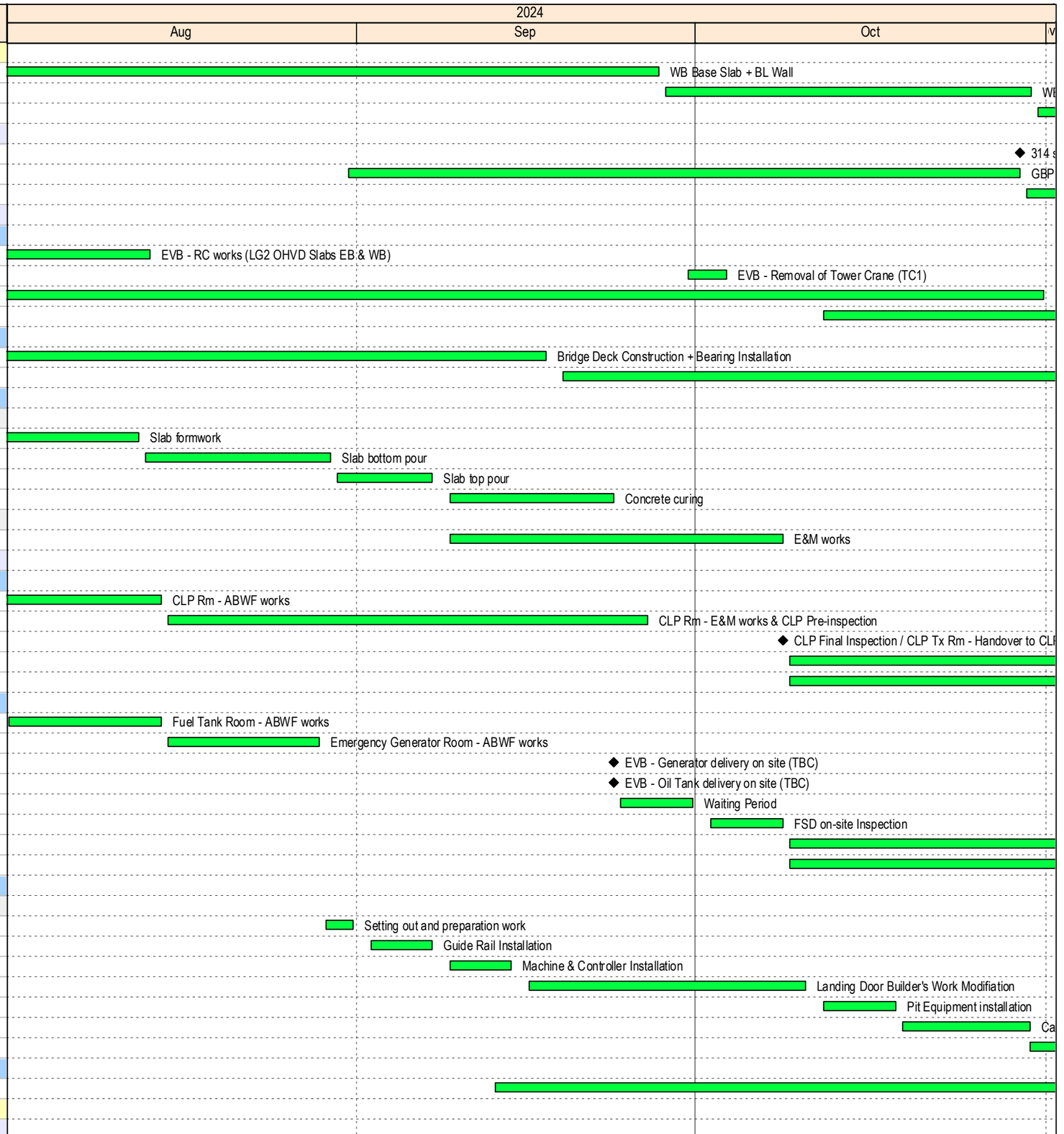
Three Months Rolling Programme (Aug24 - Oct24)

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
10 East Ventilation Building - EVB		880	20-Jul-22 A	19-Mar-25
D12615	WB Base Slab + BL Wall	724	20-Jul-22 A	27-Sep-24
D12645	WB BL Slab	29	28-Sep-24	30-Oct-24
D12655	WB Portal Frame Erection	13	31-Oct-24	13-Nov-24
GBP		137	31-Aug-24	28-Jan-25
A40252	314 submission (VAC) by BYME	0		29-Oct-24
A40242	GBP Final amendment submission and approval	53	31-Aug-24*	29-Oct-24
A40262	3 month approval period from FSD	83	30-Oct-24	28-Jan-25
EVB Construction		264	03-Jun-24	19-Mar-25
Building Structure + ABWF & E&M Works		264	03-Jun-24	19-Mar-25
A229449430	EVB - RC works (LG2 OHVD Slabs EB & WB)	67	03-Jun-24*	13-Aug-24
A1040	EVB - Removal of Tower Crane (TC1)	3	30-Sep-24*	03-Oct-24
A229449410	EVB - RC works (LG1 Walls & G/F Slab)	139	03-Jun-24*	31-Oct-24
A229449420	EVB - RC works (G/F Walls & Roof Slab)	144	12-Oct-24	19-Mar-25
Footbridge FB03		100	27-Jul-24	12-Nov-24
A10040	Bridge Deck Construction + Bearing Installation	50	27-Jul-24	17-Sep-24
A10050	ABWF Works	50	19-Sep-24	12-Nov-24
EVA & UU		68	27-Jul-24	08-Oct-24
EVA Connection Deck Construction		54	27-Jul-24	23-Sep-24
A100070	Slab formwork	16	27-Jul-24	12-Aug-24
A100080	Slab bottom pour	17	13-Aug-24	29-Aug-24
A100090	Slab top pour	9	30-Aug-24	07-Sep-24
A100100	Concrete curing	13	09-Sep-24	23-Sep-24
E&M works		27	09-Sep-24	08-Oct-24
A100009	E&M works	27	09-Sep-24	08-Oct-24
Essential Criteria for FSI		143	25-Jul-24	27-Dec-24
Power Engerization		143	25-Jul-24	27-Dec-24
A229449470	CLP Rm - ABWF works	20	25-Jul-24*	14-Aug-24
A4001	CLP Rm - E&M works & CLP Pre-inspection	40	15-Aug-24	26-Sep-24
A4010	CLP Final Inspection / CLP Tx Rm - Handover to CLP	0		08-Oct-24
A4019	CLP Mobilization	27	09-Oct-24	06-Nov-24
A4009	Available S02 access for CLP	73	09-Oct-24	27-Dec-24
Dangerous Goods Licenses		103	01-Aug-24	20-Nov-24
A10070	Fuel Tank Room - ABWF works	13	01-Aug-24*	14-Aug-24
A8000	Emergency Generator Room - ABWF works	13	15-Aug-24	28-Aug-24
A8001	EVB - Generator delivery on site (TBC)	0		23-Sep-24
A10080	EVB - Oil Tank delivery on site (TBC)	0		23-Sep-24
A10090	Waiting Period	7	24-Sep-24	30-Sep-24
A10100	FSD on-site Inspection	7	02-Oct-24	08-Oct-24
A10110	Oil Tank Installation and T&C	27	09-Oct-24	06-Nov-24
A8010	Generator Installation	40	09-Oct-24	20-Nov-24
Fireman Lift		67	29-Aug-24	11-Nov-24
Lift Installation (by OTIS)		67	29-Aug-24	11-Nov-24
A100145	Setting out and preparation work	3	29-Aug-24*	31-Aug-24
A100150	Guide Rail Installation	7	02-Sep-24	07-Sep-24
A100151	Machine & Controller Installation	7	09-Sep-24	14-Sep-24
A100160	Landing Door Builder's Work Modifiation	22	16-Sep-24	10-Oct-24
A100161	Pit Equipment installation	7	12-Oct-24	18-Oct-24
A100170	Car Cage & CWT Frame Assembly	11	19-Oct-24*	30-Oct-24
A100190	Electrical Installation	11	30-Oct-24	11-Nov-24
FS Water Supply		78	13-Sep-24	06-Dec-24
A6003	Watermain Installation	78	13-Sep-24*	06-Dec-24
11 E&M Installation		207	02-Jun-24	25-Dec-24
Eastbound TSS before CP21		195	02-Jun-24	13-Dec-24



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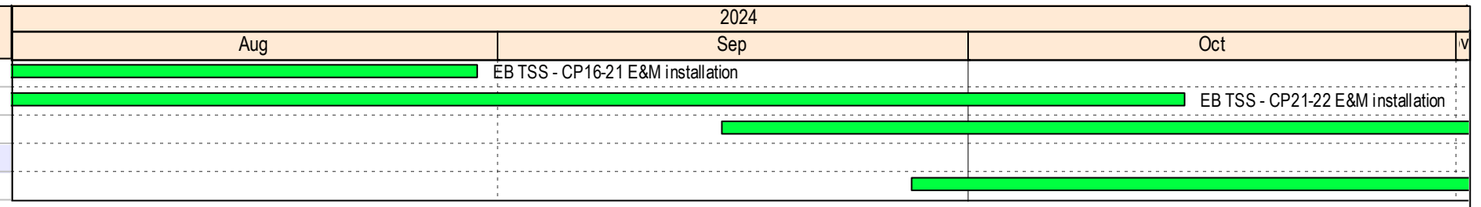
E&M1050	EB TSS - CP16-21 E&M installation	90	02-Jun-24	30-Aug-24
E&M1070	EB TSS - CP21-22 E&M installation	90	17-Jul-24	14-Oct-24
E&M1010	EB TSS - CP7-11 E&M installation	90	15-Sep-24*	13-Dec-24
Westbound TSS before CP21		90	27-Sep-24	25-Dec-24
E&M1020	WB TSS - CP11-16 E&M installation	90	27-Sep-24	25-Dec-24



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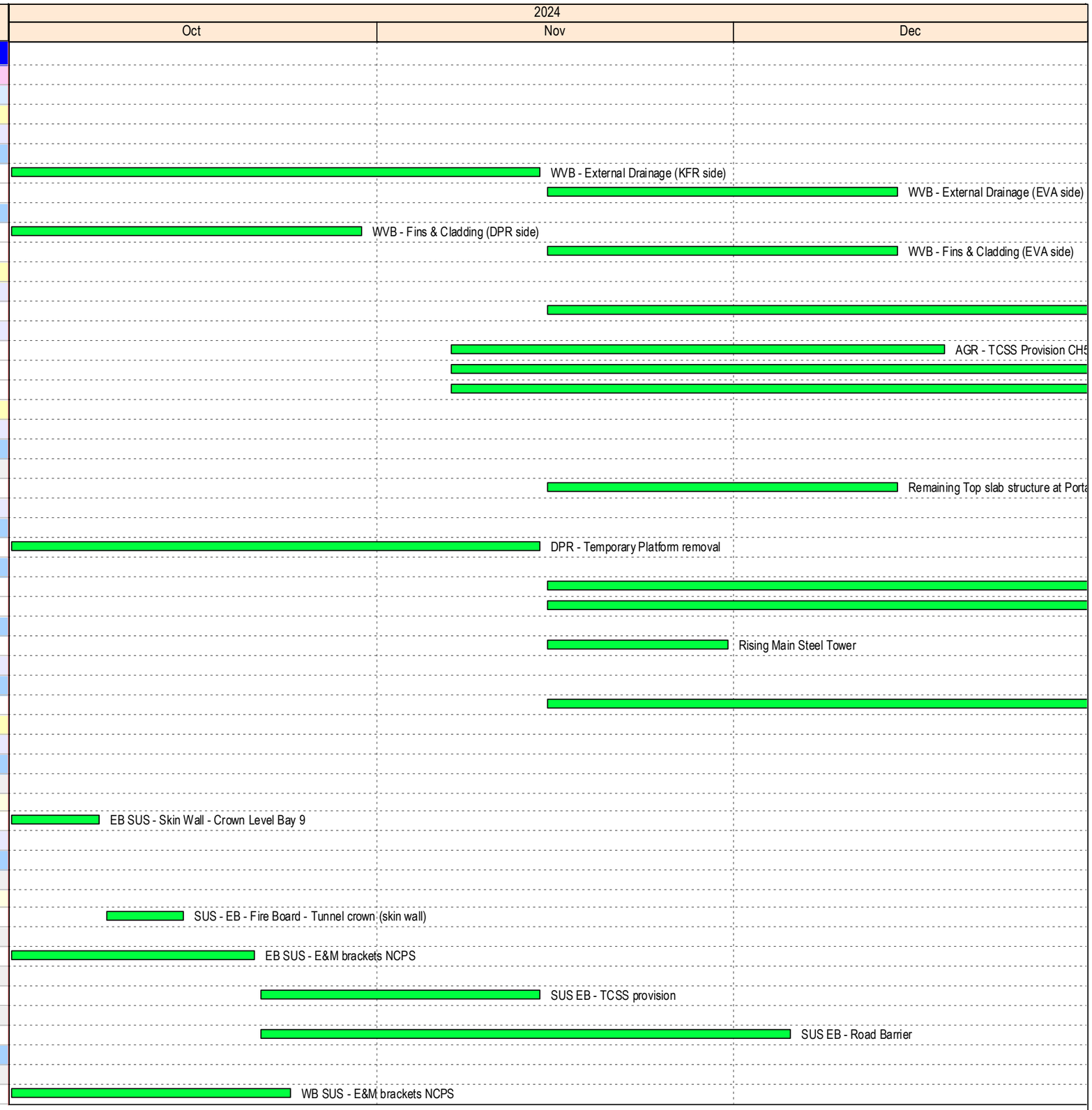
Activity ID	Activity Name	Dur	Start	Finish
HKT2 P65Bis Programme DD 01Oct24		226	01-Oct-24	14-May-25
Construction		226	01-Oct-24	14-May-25
Trunk Road T2		226	01-Oct-24	14-May-25
01 West Vemtilation Building - WVB		75	01-Oct-24	14-Dec-24
WVB - Remaining works after FSI		75	01-Oct-24	14-Dec-24
External Works		75	01-Oct-24	14-Dec-24
WVB1780	WVB - External Drainage (KFR side)	45	01-Oct-24*	14-Nov-24
WVB1820	WVB - External Drainage (EVA side)	30	15-Nov-24	14-Dec-24
Architectural Finishes		75	01-Oct-24	14-Dec-24
WVB1790	WVB - Fins & Cladding (DPR side)	30	01-Oct-24*	30-Oct-24
WVB1800	WVB - Fins & Cladding (EVA side)	30	15-Nov-24	14-Dec-24
02 At-Grade Road -AGR		103	07-Nov-24	17-Feb-25
Kiosk		83	15-Nov-24	17-Feb-25
AGR1030	Kiosk - procurement, fabrication & delivery	83	15-Nov-24*	17-Feb-25
AGR - Road & Drainage works		61	07-Nov-24	06-Jan-25
AGR1021	AGR - TCSS Provision CH5860-5962	40	07-Nov-24	18-Dec-24
AGR1050	AGR - WB Road Side Barrier	60	07-Nov-24	05-Jan-25
AGR1040	AGR - EB Drainage & Gully Installation	54	07-Nov-24	06-Jan-25
03 Depressed Road - DPR		226	01-Oct-24	14-May-25
DPR - Structure Works		30	15-Nov-24	14-Dec-24
DPR - Remaining Structure		30	15-Nov-24	14-Dec-24
MJ		30	15-Nov-24	14-Dec-24
A229450060	Remaining Top slab structure at Portal (2 pours)	30	15-Nov-24	14-Dec-24
DPR - Road Works		92	01-Oct-24	31-Dec-24
Temporary Platform Removal		45	01-Oct-24	14-Nov-24
DPR10000	DPR - Temporary Platform removal	45	01-Oct-24	14-Nov-24
Street Furniture		47	15-Nov-24	31-Dec-24
DPR10020	DPR - EB Road Barrier	47	15-Nov-24	31-Dec-24
DPR10090	DPR - WB Road Barrier	47	15-Nov-24	31-Dec-24
Rising Main		15	15-Nov-24	30-Nov-24
A229449960	Rising Main Steel Tower	15	15-Nov-24	30-Nov-24
DPR - Final Works		181	15-Nov-24	14-May-25
GRC Panel		181	15-Nov-24	14-May-25
DPR10040	DPR - GRC Panel installation	181	15-Nov-24	14-May-25
05 Supporting Underground Structure - SUS		69	01-Oct-24	08-Dec-24
SUS - Tunnel Structure Works		8	01-Oct-24	08-Oct-24
Eastbound Structure		8	01-Oct-24	08-Oct-24
EB Skin Wall		8	01-Oct-24	08-Oct-24
Crown		8	01-Oct-24	08-Oct-24
A229448470	EB SUS - Skin Wall - Crown Level Bay 9	8	01-Oct-24	08-Oct-24
SUS - Tunnel Civil Works		69	01-Oct-24	08-Dec-24
Eastbound TCW		66	01-Oct-24	05-Dec-24
EB Fireboard		6	09-Oct-24	15-Oct-24
Crown level		6	09-Oct-24	15-Oct-24
A229447820	SUS - EB - Fire Board - Tunnel crown (skin wall)	6	09-Oct-24	15-Oct-24
EB E&M brackets		21	01-Oct-24	21-Oct-24
A229446330	EB SUS - E&M brackets NCPS	21	01-Oct-24*	21-Oct-24
EB TCSS provision		24	22-Oct-24	14-Nov-24
SUS10070	SUS EB - TCSS provision	24	22-Oct-24	14-Nov-24
EB Road Barrier		45	22-Oct-24	05-Dec-24
SUS10060	SUS EB - Road Barrier	45	22-Oct-24	05-Dec-24*
Westbound TCW		69	01-Oct-24	08-Dec-24
WB E&M brackets		24	01-Oct-24	24-Oct-24
A229446310	WB SUS - E&M brackets NCPS	24	01-Oct-24	24-Oct-24



◆ ◆ Milestones
Planned Bar
Actual Bar

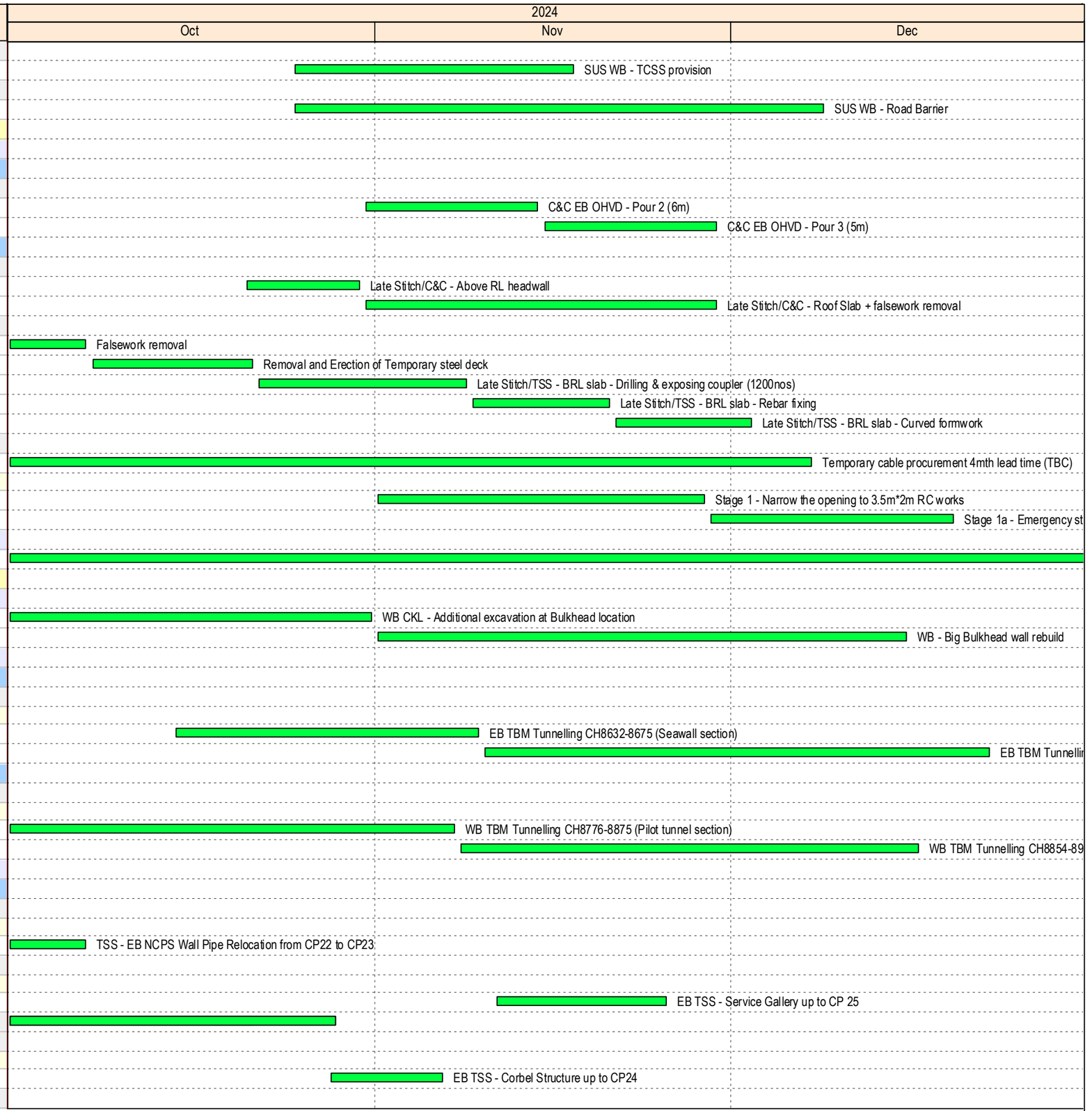
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Oct24-Dec24)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
WB TCSS provision		24	25-Oct-24	17-Nov-24
SUS10090	SUS WB - TCSS provision	24	25-Oct-24	17-Nov-24
WB Road Barrier		45	25-Oct-24	08-Dec-24
SUS10080	SUS WB - Road Barrier	45	25-Oct-24	08-Dec-24
06 Launching Shaft & C&C Tunnel - LSCC		134	01-Oct-24	11-Feb-25
LSCC - Structure works		80	01-Oct-24	19-Dec-24
Cut & Cover Tunnel		30	31-Oct-24	29-Nov-24
C&C OHVD		30	31-Oct-24	29-Nov-24
LSCC10215	C&C EB OHVD - Pour 2 (6m)	15	31-Oct-24	14-Nov-24
LSCC10220	C&C EB OHVD - Pour 3 (5m)	15	15-Nov-24	29-Nov-24
Launching Shaft		80	01-Oct-24	19-Dec-24
Late Stitch/C&C		40	21-Oct-24	29-Nov-24
LSCC10280	Late Stitch/C&C - Above RL headwall	10	21-Oct-24	30-Oct-24
LSCC10290	Late Stitch/C&C - Roof Slab + falsework removal	30	31-Oct-24	29-Nov-24
Late Stitch/TSS		63	01-Oct-24	02-Dec-24
LSCC10261	Falsework removal	7	01-Oct-24	07-Oct-24
LSCC10271	Removal and Erection of Temporary steel deck	14	08-Oct-24	21-Oct-24
LSCC10300	Late Stitch/TSS - BRL slab - Drilling & exposing coupler (1200nos)	18	22-Oct-24	08-Nov-24
LSCC10310	Late Stitch/TSS - BRL slab - Rebar fixing	12	09-Nov-24	20-Nov-24
LSCC10320	Late Stitch/TSS - BRL slab - Curved formwork	12	21-Nov-24	02-Dec-24
LS - Miscellaneous Structural Openings		80	01-Oct-24	19-Dec-24
A229448610	Temporary cable procurement 4mth lead time (TBC)	68	01-Oct-24*	07-Dec-24
05 RC works at MIMEP Opening for Service Galleries Works (subject to BYME &		49	01-Nov-24	19-Dec-24
A229448650	Stage 1 - Narrow the opening to 3.5m*2m RC works	28	01-Nov-24*	28-Nov-24
A229449020	Stage 1a - Emergency staircase corridor RC works	21	29-Nov-24	19-Dec-24
LSCC - Backfilling & Dwall Dismantling		134	01-Oct-24	11-Feb-25
A229447770	Stage 2a subject to RC completion (from -10.5mPD to +1.0mPD) 3	134	01-Oct-24*	11-Feb-25
07 Tunnel Sub-sea (TSS)		83	01-Oct-24	22-Dec-24
Tunnel Advance Excavation - D&Br from CKL		76	01-Oct-24	15-Dec-24
CKL1045	WB CKL - Additional excavation at Bulkhead location	31	01-Oct-24	31-Oct-24
CKL1090	WB - Big Bulkhead wall rebuild	45	01-Nov-24*	15-Dec-24
Tunnel Excavation - TBM from Kai Tak		83	01-Oct-24	22-Dec-24
Eastbound (EB) - TBM S1282		69	15-Oct-24	22-Dec-24
TBM Tunnelling		69	15-Oct-24	22-Dec-24
CP26-30		69	15-Oct-24	22-Dec-24
EBTBM1260	EB TBM Tunnelling CH8632-8675 (Seawall section)	26	15-Oct-24	09-Nov-24
EBTBM1270	EB TBM Tunnelling CH8675-8748 (Seawall section)	43	10-Nov-24	22-Dec-24
Westbound (WB) - TBM S1281		77	01-Oct-24	16-Dec-24
TBM Tunneling		77	01-Oct-24	16-Dec-24
CP26-31		77	01-Oct-24	16-Dec-24
A229449562	WB TBM Tunnelling CH8776-8875 (Pilot tunnel section)	38	01-Oct-24	07-Nov-24
A229449563	WB TBM Tunnelling CH8854-8975 (Pilot tunnel section)	39	08-Nov-24	16-Dec-24
Tunnel Civil Works before TBM breakthough		70	01-Oct-24	09-Dec-24
Eastbound (EB)		56	01-Oct-24	25-Nov-24
Temporary Services		7	01-Oct-24	07-Oct-24
TBM slurry pipe relocation		7	01-Oct-24	07-Oct-24
A229447670	TSS - EB NCPS Wall Pipe Relocation from CP22 to CP23	7	01-Oct-24	07-Oct-24
Service Gallery		14	11-Nov-24	25-Nov-24
CP21-26		14	11-Nov-24	25-Nov-24
A229428552	EB TSS - Service Gallery up to CP 25	14	11-Nov-24	25-Nov-24
Below Road Level Installation		28	01-Oct-24	28-Oct-24
Corbel		9	28-Oct-24	06-Nov-24
CP21-26		9	28-Oct-24	06-Nov-24
A229415952	EB TSS - Corbel Structure up to CP24	9	28-Oct-24	06-Nov-24
Road Barrier		8	08-Oct-24	15-Oct-24



◆ Milestones
Planned Bar
Actual Bar

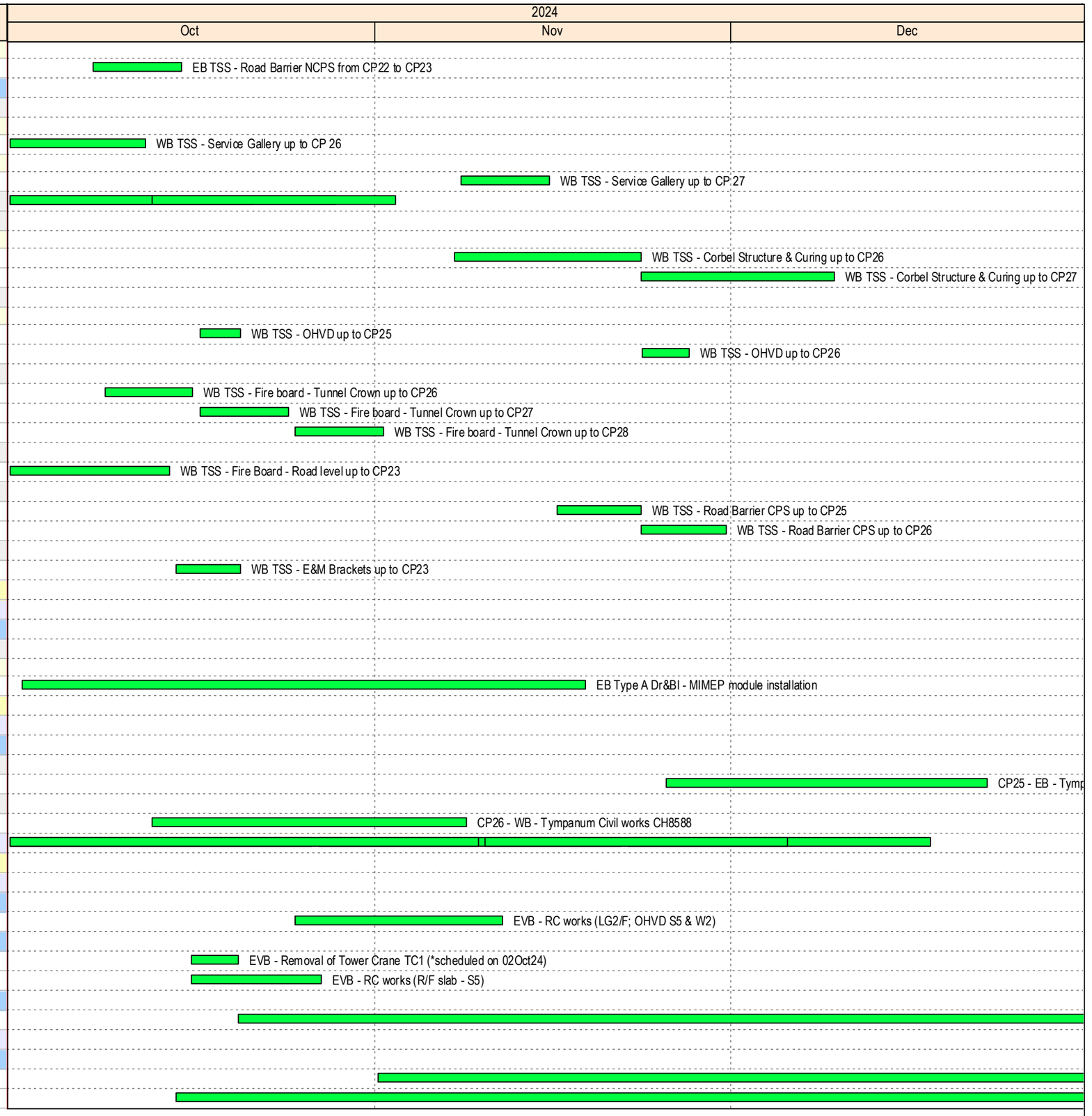
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Oct24-Dec24)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
NCPS		8	08-Oct-24	15-Oct-24
TC10150	EB TSS - Road Barrier NCPS from CP22 to CP23	8	08-Oct-24	15-Oct-24
Westbound (WB)		70	01-Oct-24	09-Dec-24
Service Gallery		46	01-Oct-24	15-Nov-24
CP21-26		12	01-Oct-24	12-Oct-24
A229445900	WB TSS - Service Gallery up to CP 26	12	01-Oct-24	12-Oct-24
CP26-31		8	08-Nov-24	15-Nov-24
A229424680	WB TSS - Service Gallery up to CP 27	8	08-Nov-24	15-Nov-24
Below Road Level Installation		33	01-Oct-24	02-Nov-24
Corbel		30	07-Nov-24	09-Dec-24
CP21-26		30	07-Nov-24	09-Dec-24
A229415232	WB TSS - Corbel Structure & Curing up to CP26	15	07-Nov-24	23-Nov-24
A229415242	WB TSS - Corbel Structure & Curing up to CP27	15	23-Nov-24	09-Dec-24
OHVD		41	17-Oct-24	27-Nov-24
CP26-30		41	17-Oct-24	27-Nov-24
TC3120	WB TSS - OHVD up to CP25	4	17-Oct-24	20-Oct-24
TC3130	WB TSS - OHVD up to CP26	4	23-Nov-24	27-Nov-24
Fire Board - Tunnel Crown		24	09-Oct-24	01-Nov-24
D12545	WB TSS - Fire board - Tunnel Crown up to CP26	8	09-Oct-24	16-Oct-24
D12555	WB TSS - Fire board - Tunnel Crown up to CP27	8	17-Oct-24	24-Oct-24
D12565	WB TSS - Fire board - Tunnel Crown up to CP28	8	25-Oct-24	01-Nov-24
Fire Board - Road level		14	01-Oct-24	14-Oct-24
A229446450	WB TSS - Fire Board - Road level up to CP23	14	01-Oct-24	14-Oct-24
Road Barrier		14	16-Nov-24	30-Nov-24
A229447840	WB TSS - Road Barrier CPS up to CP25	7	16-Nov-24	23-Nov-24
A229447850	WB TSS - Road Barrier CPS up to CP26	7	23-Nov-24	30-Nov-24
E&M Brackets		6	15-Oct-24	20-Oct-24
TC11060	WB TSS - E&M Brackets up to CP23	6	15-Oct-24	20-Oct-24
08 CKL Tunnel		40	02-Oct-24	18-Nov-24
Tunnel Civil Works before TBM breakthrough		40	02-Oct-24	18-Nov-24
Eastbound (EB)		40	02-Oct-24	18-Nov-24
EB Type A D&Br		40	02-Oct-24	18-Nov-24
MiMEP		40	02-Oct-24	18-Nov-24
A229444700	EB Type A Dr&BI - MIMEP module installation	40	02-Oct-24	18-Nov-24
09 Cross Passages		83	01-Oct-24	22-Dec-24
Cross Passages @ TSS (CP7 to CP29)		71	13-Oct-24	22-Dec-24
CP25 to CP29		71	13-Oct-24	22-Dec-24
CP25		27	25-Nov-24	22-Dec-24
TD0100	CP25 - EB - Tympanum Civil works CH8489	27	25-Nov-24	22-Dec-24
CP26		27	13-Oct-24	08-Nov-24
TD0210	CP26 - WB - Tympanum Civil works CH8588	27	13-Oct-24	08-Nov-24
Cross Passages @ CKL Tunnel (CP30 to CP33)		78	01-Oct-24	17-Dec-24
10 East Ventilation Building - EVB		151	01-Oct-24	28-Feb-25
Structure Works		121	16-Oct-24	14-Feb-25
LG2/F OHVD Slab		18	25-Oct-24	11-Nov-24
EVB1290	EVB - RC works (LG2/F; OHVD S5 & W2)	18	25-Oct-24	11-Nov-24
G/F Walls & R/F Slab		11	16-Oct-24	27-Oct-24
EVB1280	EVB - Removal of Tower Crane TC1 (*scheduled on 02Oct24)	4	16-Oct-24*	20-Oct-24
EVB1260	EVB - RC works (R/F slab - S5)	11	16-Oct-24	27-Oct-24
R/F Walls & UR/F Slab		117	20-Oct-24	14-Feb-25
EVB1480	EVB - RC works (R/F wall & UR/F slab)	117	20-Oct-24	14-Feb-25
ABWF Works		137	15-Oct-24	28-Feb-25
ABWF - Door & Louvre installation		137	15-Oct-24	28-Feb-25
EVB1510	EVB - Door installation	107	01-Nov-24*	15-Feb-25
EVB1530	EVB - Louvre installation	137	15-Oct-24*	28-Feb-25



◆ ◆ Milestones
Planned Bar
Actual Bar

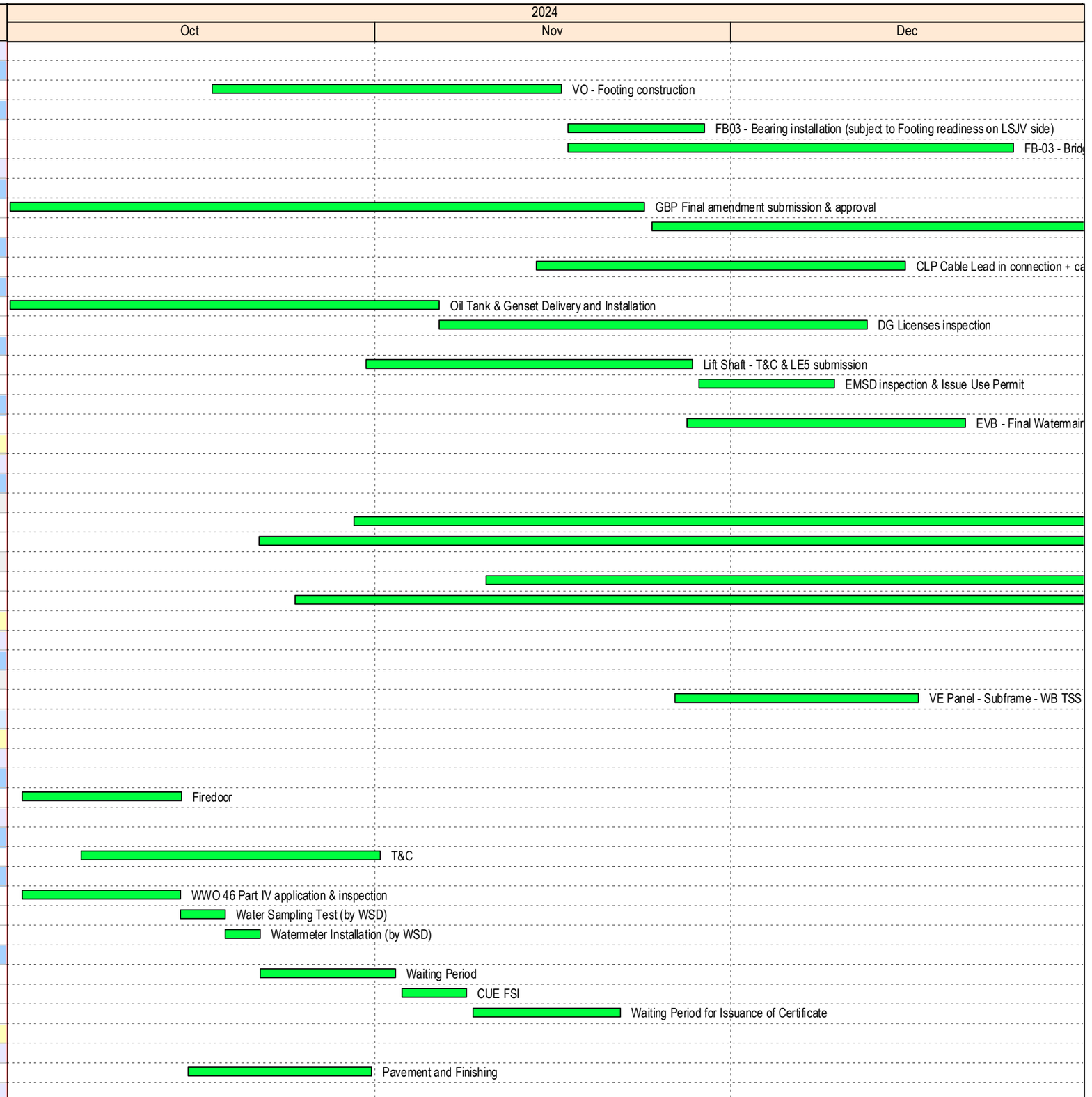
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Oct24-Dec24)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
Footbridge FB03		68	18-Oct-24	24-Dec-24
VO - Remedial works and Footing Construction		30	18-Oct-24	16-Nov-24
EVB1640	VO - Footing construction	30	18-Oct-24	16-Nov-24
Original Scope		38	17-Nov-24	24-Dec-24
EVB1385	FB03 - Bearing installation (subject to Footing readiness on LSJV s	12	17-Nov-24	28-Nov-24
EVB1380	FB-03 - Bridge Deck Delivery & Assembly (subject to Footing read	38	17-Nov-24	24-Dec-24
Statutory Procedures		147	01-Oct-24	24-Feb-25
GBP & VAC submission		147	01-Oct-24	24-Feb-25
EVB1570	GBP Final amendment submission & approval	54	01-Oct-24*	23-Nov-24
EVB1580	VAC submission & 3 mth approval period by FSD	93	24-Nov-24	24-Feb-25
Power Engerization		31	14-Nov-24	15-Dec-24
EVB1395	CLP Cable Lead in connection + cable laying + T&C	31	14-Nov-24	15-Dec-24
Dangerous Goods Licenses		72	01-Oct-24	12-Dec-24
EVB1310	Oil Tank & Genset Delivery and Installation	36	01-Oct-24	06-Nov-24
EVB1330	DG Licenses inspection	36	06-Nov-24	12-Dec-24
Lift Installation		40	31-Oct-24	09-Dec-24
EVB1430	Lift Shaft - T&C & LE5 submission	28	31-Oct-24	27-Nov-24
EVB1450	EMSD inspection & Issue Use Permit	12	28-Nov-24	09-Dec-24
FS Water Supply		24	27-Nov-24	20-Dec-24
EVB1410	EVB - Final Watermain installation after given full access	24	27-Nov-24	20-Dec-24
11 Tunnel E&M Installation		123	22-Oct-24	21-Feb-25
E&M - Cabling works		123	22-Oct-24	21-Feb-25
SUS to CKL		123	22-Oct-24	21-Feb-25
Eastbound		120	22-Oct-24	18-Feb-25
E&MC1080	EB TSS - CP11-16 E&M installation	90	30-Oct-24*	27-Jan-25
E&MC1010	EB SUS - E&M Installation	120	22-Oct-24	18-Feb-25
Westbound		120	25-Oct-24	21-Feb-25
E&MC1070	WB TSS - CP16-21 E&M installation	90	10-Nov-24	08-Feb-25
E&MC1030	WB SUS - E&M Installation	120	25-Oct-24	21-Feb-25
14 Projectwide Final Works		21	26-Nov-24	16-Dec-24
Tunnel Cladding (VE Panel)		21	26-Nov-24	16-Dec-24
Westbound		21	26-Nov-24	16-Dec-24
Typical Subframe & Niche		21	26-Nov-24	16-Dec-24
VE10060	VE Panel - Subframe - WB TSS CP7-11 CPS & NCPS	21	26-Nov-24*	16-Dec-24
Infrastructure Works		92	01-Oct-24	31-Dec-24
05 Common Uitility Enclosure (CUE) (KD-39)		51	02-Oct-24	21-Nov-24
CUE at L10(N)		12	02-Oct-24	15-Oct-24
CUE ABWF works		12	02-Oct-24	15-Oct-24
CUE10480	Firedoor	12	02-Oct-24	15-Oct-24
VO - Plantroom for CUE Sprinkler System		51	02-Oct-24	21-Nov-24
Power Energization		24	07-Oct-24	01-Nov-24
CUE10510	T&C	24	07-Oct-24	01-Nov-24
Water Supply for Sprinkler System		18	02-Oct-24	22-Oct-24
CUE10370	WWO 46 Part IV application & inspection	12	02-Oct-24	15-Oct-24
CUE10430	Water Sampling Test (by WSD)	4	15-Oct-24	19-Oct-24
CUE10470	Watermeter Installation (by WSD)	2	19-Oct-24	22-Oct-24
Overall T&C and FSI		31	22-Oct-24	21-Nov-24
CUE10530	Waiting Period	12	22-Oct-24	02-Nov-24
CUE10550	CUE FSI	6	03-Nov-24	08-Nov-24
CUE10551	Waiting Period for Issuance of Certificate	12	09-Nov-24	21-Nov-24
06 Road S20		31	01-Oct-24	31-Oct-24
VO - Charging Station Run-in		16	16-Oct-24	31-Oct-24
A229447410	Pavement and Finishing	16	16-Oct-24	31-Oct-24
VO - KFR Watermain modification		28	01-Oct-24	28-Oct-24



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Actual Bar

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

Three Months Rolling Programme (Oct24-Dec24)

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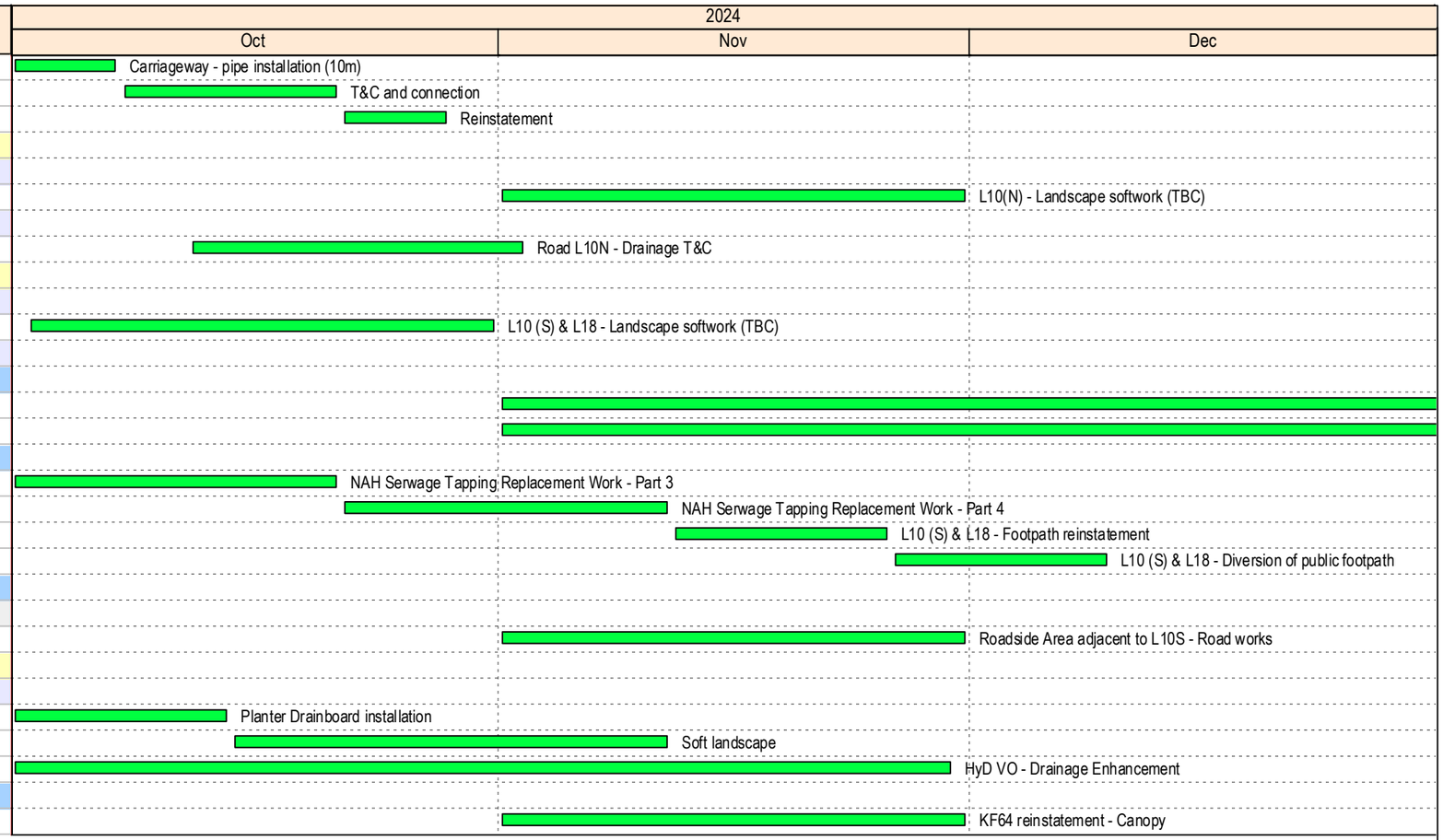
Date	Revision	Checked	Approved

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



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

Three Months Rolling Programme (Oct24-Dec24)

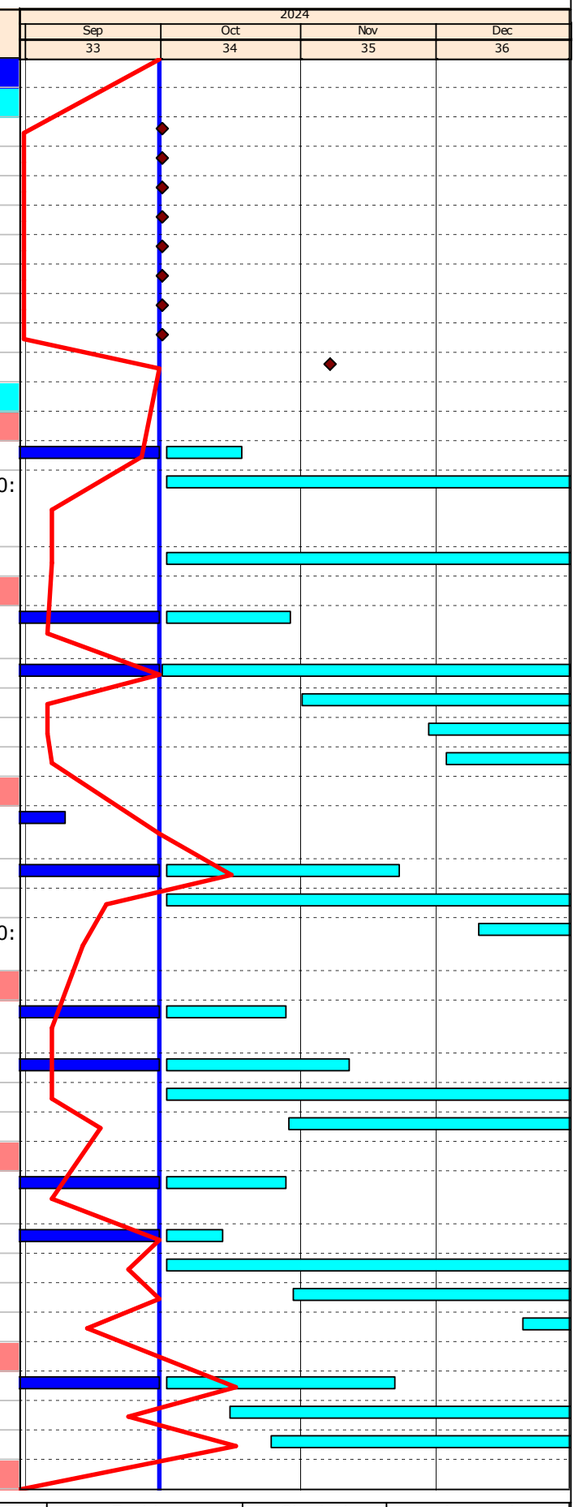
BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

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

Appendix III B - Three Month Rolling Programme

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
Trunk Road T2 - Traffic Control & Surveillance System & Associated Works		590	01-Oct-24	30-Aug-25	01-Mar-23	23-Feb-27	01-Mar-23		
Access Dates		37	01-Oct-24	07-Nov-24	12-Jun-24	26-Apr-25			
AC1000	Portion 1 - South Apron Up to SUS	0	01-Oct-24		12-Jun-24				
AC1020	Portion 3 - CKL Branch Tunnel in TKO-LTT Site	0	01-Oct-24		11-Jan-25				
AC1030	Portion 4 - TKO-LTT (LT Interchange)	0	01-Oct-24		01-Jul-24				
AC1040	Underpass S21	0	01-Oct-24		26-Apr-25				
AC1050	Portion 2 - LS - CKL Tunnel CH 6+568 to CH 7+100	0	01-Oct-24		01-Sep-24				
AC1060	Portion 2 - LS - CKL Tunnel CH 7+100 to CH 7+600	0	01-Oct-24		01-Sep-24				
AC1070	Portion 2 - LS - CKL Tunnel CH 7+600 to CH 8+100	0	01-Oct-24		01-Sep-24				
AC1080	Portion 2 - LS - CKL Tunnel CH 8+100 to CH 8+750	0	01-Oct-24		04-Oct-24				
AC1090	Portion 2 - LS - CKL Tunnel CH 8+750 to CH 9+250	0	07-Nov-24		07-Nov-24				
Summary by Cost Center		548	01-Oct-24	30-Jul-25	01-Mar-23	23-Feb-27	01-Mar-23		
Cost Center B - Central System		158	02-Oct-24	11-Feb-25	06-Jul-24	11-Apr-25	06-Jul-24		
SC1070	SCT Plan Submission & Approval for Central System	84	02-Oct-24	18-Oct-24	06-Jul-24	14-Mar-25	06-Jul-24		DS2940: SS
SC1080	Site Installation of Central System	108	02-Oct-24	11-Feb-25	23-Oct-24	17-Feb-25			SW1100: SS, SW1120: SS, SW1960: SS, SW1090: SS, SW1670: SS, SW1770: SS
SC1090	SAT Plan Submission & Approval for Central System	78	02-Oct-24	03-Jan-25	07-Jan-25	11-Apr-25			DS3500: SS
Cost Center C - Traffic Control Devices		455	01-Oct-24	16-May-25	31-Aug-23	07-May-25	31-Aug-23		
SC1150	Installation Drawing Preparation, Submission & Approval for Traffic Control Devices	72	02-Oct-24	29-Oct-24	31-Aug-23	30-Aug-24	31-Aug-23		DS5890: SS
SC1190	Equipment Manufacturing & Delivery for Traffic Control Devices	135	01-Oct-24	30-Dec-24	16-Sep-23	12-Feb-25	16-Sep-23		EM1320: SS
SC1200	SCT Plan Submission & Approval for Traffic Control Devices	84	01-Nov-24	12-Feb-25	12-Nov-24	22-Feb-25			DS2980: SS
SC1220	SAT Plan Submission & Approval for Traffic Control Devices	84	29-Nov-24	12-Mar-25	30-Dec-24	11-Apr-25			DS3540: SS
SC1210	Site Installation of Traffic Control Devices	134	03-Dec-24	16-May-25	31-Aug-24	07-May-25			SW1110: SS
Cost Center D - Communication System		221	02-Oct-24	25-Feb-25	14-Aug-24	14-Mar-25	22-Apr-24		
SC1280	Installation Drawing Preparation, Submission & Approval for Communication System	60					22-Apr-24	09-Sep-24	DS5930: SS
SC1340	SCT Plan Submission & Approval for Communication System	84	02-Oct-24	22-Nov-24	14-Aug-24	14-Mar-25	14-Aug-24		DS3020: SS
SC1350	SAT Plan Submission & Approval for Communication System	80	02-Oct-24	06-Jan-25	07-Nov-24	13-Feb-25			DS3580: SS
SC1330	Site Installation of Communication System	62	10-Dec-24	25-Feb-25	23-Oct-24	17-Feb-25			SW1100: SS, SW1120: SS, SW1960: SS
Cost Center E - CCTV System		396	02-Oct-24	24-Jan-25	01-Mar-23	23-Feb-27	01-Mar-23		
SC1410	Installation Drawing Preparation, Submission & Approval for CCTV System	99	02-Oct-24	28-Oct-24	01-Mar-23	23-Feb-27	01-Mar-23		DS5970: SS
SC1460	SCT Plan Submission & Approval for CCTV System	84	02-Oct-24	11-Nov-24	24-Jun-24	03-Feb-25	24-Jun-24		DS3060: SS
SC1480	SAT Plan Submission & Approval for CCTV System	84	02-Oct-24	10-Jan-25	24-Dec-24	07-Apr-25			DS3620: SS
SC1470	Site Installation of CCTV System	74	29-Oct-24	24-Jan-25	25-Sep-24	12-Mar-25			SW1060: SS, SW1940: SS
Cost Center F - PABX System		548	02-Oct-24	30-Jul-25	27-Jul-23	16-Aug-25	27-Jul-23		
SC1560	Installation Drawing Preparation, Submission & Approval for PABX System	68	02-Oct-24	28-Oct-24	27-Jul-23	24-Dec-24	27-Jul-23		DS6010: SS
SC1600	SCT Plan Submission & Approval for PABX System	84	02-Oct-24	14-Oct-24	28-Jun-24	07-Apr-25	28-Jun-24		DS3100: SS
SC1610	SAT Plan Submission & Approval for PABX System	84	02-Oct-24	10-Jan-25	09-May-25	16-Aug-25			DS3660: SS
SC1590	Site Installation of PABX System	66	30-Oct-24	16-Jan-25	04-Jan-25	07-Apr-25			SW2380: SS
SC1620	SCT of PABX System	181	20-Dec-24	30-Jul-25	12-Mar-25	21-May-25			SW2770: SS
Cost Center G - ET System		103	02-Oct-24	05-Feb-25	13-Aug-24	07-May-25	13-Aug-24		
SC1730	SCT Plan Submission & Approval for ET System	84	02-Oct-24	21-Nov-24	13-Aug-24	08-Mar-25	13-Aug-24		DS3140: SS
SC1720	Site Installation of ET System	85	16-Oct-24	24-Jan-25	03-Jan-25	14-Apr-25			SW2340: SS
SC1740	SAT Plan Submission & Approval for ET System	84	25-Oct-24	05-Feb-25	23-Jan-25	07-May-25			DS3700: SS
Cost Center H - PA System		135	02-Oct-24	10-Jan-25	27-Feb-24	02-Aug-25	11-Jun-24		

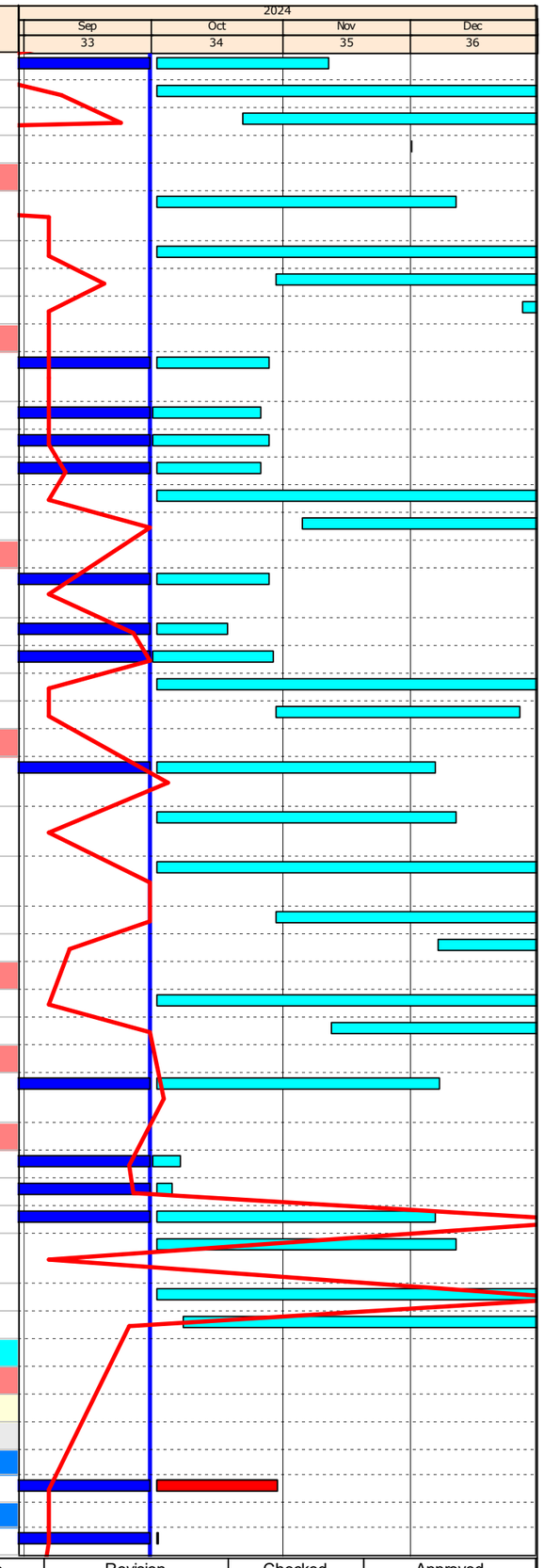


Remaining Work
Actual Work
Critical Activity
Milestone

Date	Revision	Checked	Approved
30-Sep-24	Rev. 0	MY	

GTECH Services (Hong Kong) Limited

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
SC1850	SCT Plan Submission & Approval for PA System	84	02-Oct-24	11-Nov-24	11-Jun-24	22-Mar-25	11-Jun-24		DS3180: SS
SC1870	SAT Plan Submission & Approval for PA System	84	02-Oct-24	10-Jan-25	23-Apr-25	02-Aug-25			DS3740: SS
SC1860	Site Installation of PA System	68	22-Oct-24	10-Jan-25	26-Dec-24	22-Mar-25			SW2370: SS
SC1830	FAT of PA System	0	01-Dec-24	01-Dec-24	27-Feb-24	28-Feb-24			EM1080: FS
Cost Center I - Radio System		156	02-Oct-24	09-Apr-25	22-Apr-24	07-May-25			
SC1930	Installation Drawing Preparation, Submission & Approval for Radio System	60	02-Oct-24	11-Dec-24	22-Apr-24	18-Jan-25			DS6130: SS
SC1980	SCT Plan Submission & Approval for Radio System	84	02-Oct-24	10-Jan-25	29-Oct-24	15-Mar-25			DS3220: SS
SC1990	Site Installation of Radio System	83	30-Oct-24	08-Feb-25	04-Jan-25	21-Apr-25			SW2390: SS
SC2000	SAT Plan Submission & Approval for Radio System	84	27-Dec-24	09-Apr-25	23-Jan-25	07-May-25			DS3780: SS
Cost Center J - Detection System		427	01-Oct-24	11-Apr-25	24-May-23	23-Feb-27	24-May-23		
SC2060	Installation Drawing Preparation, Submission & Approval for Detection System	124	02-Oct-24	28-Oct-24	24-May-23	23-Feb-27	24-May-23		DS6170: SS
SC2100	Equipment Manufacturing & Delivery for Detection System	90	01-Oct-24	26-Oct-24	01-Aug-23	29-Sep-24	01-Aug-23		EM1100: SS, EM1660: SS
SC2090	FAT of Detection System	87	01-Oct-24	28-Oct-24	01-Nov-23	28-Aug-24	31-Oct-23		EM1100: FS, EM1660: FS
SC2080	FAT Plan Submission & Approval for Detection System	66	02-Oct-24	26-Oct-24	19-Apr-24	13-Sep-24	19-Apr-24		DS4450: SS, DS8420: SS
SC2110	SCT Plan Submission & Approval for Detection System	84	02-Oct-24	10-Jan-25	09-Sep-24	17-Jan-25			DS3260: SS
SC2120	Site Installation of Detection System	130	05-Nov-24	11-Apr-25	05-Sep-24	12-Mar-25			SW1070: SS, SW1250: SS
Cost Center K - Manual Fallback System		283	01-Oct-24	10-Jan-25	31-Aug-23	14-Mar-25	31-Aug-23		
SC2190	Installation Drawing Preparation, Submission & Approval for Manual Fallback System	60	02-Oct-24	28-Oct-24	31-Aug-23	05-Feb-25	31-Aug-23		DS6210: SS
SC2250	SCT Plan Submission & Approval for Manual Fallback System	84	02-Oct-24	18-Oct-24	06-Jul-24	14-Mar-25	06-Jul-24		DS3300: SS
SC2200	Post FAT Configuration for Manual Fallback System	90	01-Oct-24	29-Oct-24	24-Jul-24	05-Feb-25	23-Jul-24		EM1540: FS
SC2270	SAT Plan Submission & Approval for Manual Fallback System	84	02-Oct-24	10-Jan-25	12-Nov-24	22-Feb-25			DS3860: SS
SC2240	Site Installation of Manual Fallback System	49	30-Oct-24	26-Dec-24	06-Feb-25	05-Mar-25			EM1110: FS
Cost Center L - Speed Enforcement System		127	02-Oct-24	05-Mar-25	19-Feb-24	21-May-25	28-Aug-24		
SC2370	SCT Plan Submission & Approval for Speed Enforcement System	84	02-Oct-24	06-Dec-24	28-Aug-24	22-Mar-25	28-Aug-24		DS3380: SS
SC2340	Installation Drawing Preparation, Submission & Approval for Speed Enforcement System	60	02-Oct-24	11-Dec-24	19-Feb-24	01-Mar-25			DS6290: SS
SC2380	Reliability Test Plan Submission & Approval for Speed Enforcement System	84	02-Oct-24	10-Jan-25	30-Dec-24	11-Apr-25			DS3940: SS
SC2390	Site Installation of Speed Enforcement System	78	30-Oct-24	03-Feb-25	18-Jan-25	07-May-25			SW2330: SS
SC2400	SCT of Speed Enforcement System	71	07-Dec-24	05-Mar-25	24-Mar-25	21-May-25			DS3410: FS
Cost Center M - Power Distribution System		116	02-Oct-24	20-Feb-25	13-Aug-24	14-May-25			
SC2490	SCT Plan Submission & Approval for Power Distribution System	84	02-Oct-24	10-Jan-25	13-Aug-24	21-Nov-24			DS3420: SS
SC2480	Site Installation of Power Distribution System	82	12-Nov-24	20-Feb-25	11-Mar-25	14-May-25			SW1920: SS, SW2250: SS
Cost Center N - Government Optical Fibre System		84	02-Oct-24	07-Dec-24	29-Aug-24	28-Apr-25	29-Aug-24		
SC2580	SCT Plan Submission & Approval for Government Optical Fibre System	84	02-Oct-24	07-Dec-24	29-Aug-24	28-Apr-25	29-Aug-24		DS3460: SS
Operation Facilities		356	01-Oct-24	10-Jan-25	01-Aug-23	02-May-25	01-Aug-23		
SC2660	FAT of Operation Facilities	78	01-Oct-24	07-Oct-24	01-Aug-23	29-May-24	01-Aug-23		EM1560: SS
SC2650	FAT Plan Submission & Approval for Operation Facilities	81	02-Oct-24	05-Oct-24	27-May-24	27-May-24	10-Jul-24		DS4600: SS
SC2690	SCT Plan Submission & Approval for Operation Facilities	84	02-Oct-24	06-Dec-24	28-Aug-24	02-May-25	28-Aug-24		DS3340: SS
SC2630	Installation Drawing Preparation, Submission & Approval for Operation Facilities	60	02-Oct-24	11-Dec-24	04-Dec-24	17-Feb-25			DS6250: SS
SC2710	SAT Plan Submission & Approval for Operation Facilities	84	02-Oct-24	10-Jan-25	30-Dec-24	11-Apr-25			DS3900: SS
SC2670	Equipment Manufacturing & Delivery for Operation Facilities	90	08-Oct-24	05-Jan-25	30-May-24	27-Aug-24			EM1550: FS
Design & Submissions		304	02-Oct-24	30-Oct-24	31-Jul-24	25-Jun-25	29-Aug-23		
FSP Submissions (42 Working Days after Commencement of FSP)		304	02-Oct-24	30-Oct-24	31-Jul-24	25-Jun-25	29-Aug-23		
FSP Batch 1 Submission		304	02-Oct-24	30-Oct-24	31-Jul-24	25-Jun-25	29-Aug-23		
Central System		304	02-Oct-24	30-Oct-24	31-Jul-24	25-Jun-25	29-Aug-23		
Traffic Plan Review & Combine		140	02-Oct-24	30-Oct-24	31-Jul-24	27-Aug-24	28-Dec-23		
DS7300	Traffic Plan Review & Combine Workshop	140	02-Oct-24	30-Oct-24	31-Jul-24	27-Aug-24	28-Dec-23		DS1830: FS 22
IT Security Risk Assessment Plan		30	02-Oct-24	02-Oct-24	25-Jun-25	25-Jun-25	29-Aug-23		
DS7440	Approval on IT Security Risk Assessment Plan	30	02-Oct-24	02-Oct-24	25-Jun-25	25-Jun-25	29-Aug-23		DS7430: FS



Remaining Work
Actual Work
Critical Activity
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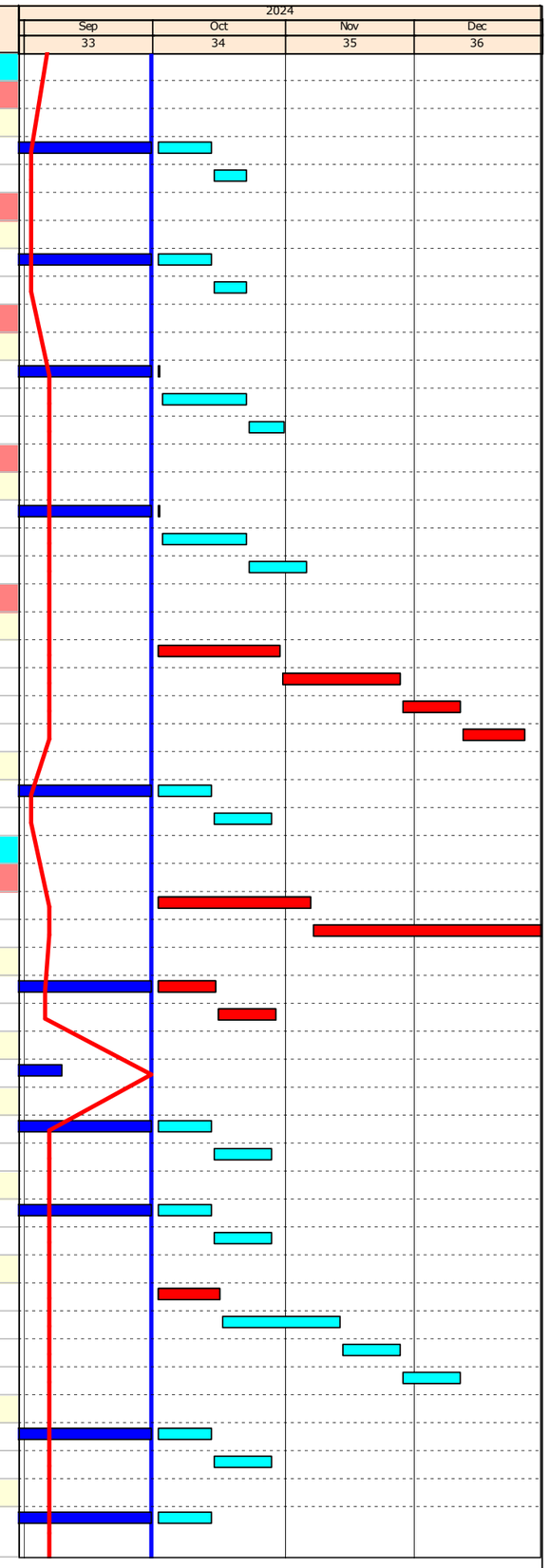
Date	Revision	Checked	Approved
30-Sep-24	Rev. 0	MY	

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
Interface Coordination & Integration with Other Parties		123	02-Oct-24	26-Dec-24	06-Apr-24	23-Feb-27	17-May-24		
Interfacing Coordination with CKR (KTE)		24	02-Oct-24	22-Oct-24	01-Feb-27	23-Feb-27	21-Aug-24		
Detail Interfacing Management Plan (DIMP)		24	02-Oct-24	22-Oct-24	01-Feb-27	23-Feb-27	21-Aug-24		
DS6630	Resubmit DIMP with CKR (KTE)	16	02-Oct-24	14-Oct-24	01-Feb-27	15-Feb-27	21-Aug-24		DS6620: FS
DS6640	Approval of DIMP with CKR (KTE)	7	15-Oct-24	22-Oct-24	16-Feb-27	23-Feb-27			DS6630: FS
Interfacing Coordination with CKR (BEM)		24	02-Oct-24	22-Oct-24	01-Feb-27	23-Feb-27	21-Aug-24		
Detail Interfacing Management Plan (DIMP)		24	02-Oct-24	22-Oct-24	01-Feb-27	23-Feb-27	21-Aug-24		
DS6710	Resubmit DIMP with CKR (BEM)	16	02-Oct-24	14-Oct-24	01-Feb-27	15-Feb-27	21-Aug-24		DS6700: FS
DS6720	Approval of DIMP with CKR (BEM)	7	15-Oct-24	22-Oct-24	16-Feb-27	23-Feb-27			DS6710: FS
Interfacing Coordination with TKO-LTT (Civil)		76	02-Oct-24	31-Oct-24	22-Jan-27	23-Feb-27	17-May-24		
Detail Interfacing Management Plan (DIMP)		76	02-Oct-24	31-Oct-24	22-Jan-27	23-Feb-27	17-May-24		
DS6780	Comment on DIMP with TKO-LTT (Civil)	17	02-Oct-24	02-Oct-24	22-Jan-27	22-Jan-27	17-May-24		DS6770: FS
DS6790	Resubmit DIMP with TKO-LTT (Civil)	16	03-Oct-24	22-Oct-24	23-Jan-27	13-Feb-27			DS6780: FS
DS6800	Approval of DIMP with TKO-LTT (Civil)	8	23-Oct-24	31-Oct-24	15-Feb-27	23-Feb-27			DS6790: FS
Interfacing Coordination with TKO-LTT (TCSS)		80	02-Oct-24	05-Nov-24	18-Jan-27	23-Feb-27	17-May-24		
Detail Interfacing Management Plan (DIMP)		80	02-Oct-24	05-Nov-24	18-Jan-27	23-Feb-27	17-May-24		
DS6860	Comment on DIMP with TKO-LTT (TCSS)	10	02-Oct-24	02-Oct-24	18-Jan-27	18-Jan-27	17-May-24		DS6850: FS
DS6870	Resubmit DIMP with TKO-LTT (TCSS)	16	03-Oct-24	22-Oct-24	19-Jan-27	05-Feb-27			DS6860: FS
DS6880	Approval of DIMP with TKO-LTT (TCSS)	12	23-Oct-24	05-Nov-24	10-Feb-27	23-Feb-27			DS6870: FS
Interfacing Coordination with T2		72	02-Oct-24	26-Dec-24	06-Apr-24	23-Feb-27	21-Aug-24		
Preliminary Interfacing Management Plan (PIMP)		72	02-Oct-24	26-Dec-24	06-Apr-24	03-Jul-24			
DS6890	Prepare & Submit PIMP with T2	24	02-Oct-24	30-Oct-24	06-Apr-24	04-May-24			DS2680: FS 211
DS6900	Comment on PIMP with T2	24	31-Oct-24	27-Nov-24	06-May-24	03-Jun-24			DS6890: FS
DS6910	Resubmit PIMP with T2	12	28-Nov-24	11-Dec-24	04-Jun-24	18-Jun-24			DS6900: FS
DS6920	Approval of PIMP with T2	12	12-Dec-24	26-Dec-24	19-Jun-24	03-Jul-24			DS6910: FS
Detail Interfacing Management Plan (DIMP)		22	02-Oct-24	28-Oct-24	26-Jan-27	23-Feb-27	21-Aug-24		
DS6950	Resubmit DIMP with T2	12	02-Oct-24	14-Oct-24	26-Jan-27	05-Feb-27	21-Aug-24		DS6940: FS
DS6960	Approval of DIMP with T2	12	15-Oct-24	28-Oct-24	10-Feb-27	23-Feb-27			DS6950: FS
Drawing & Installation Method Statement Submissions		336	02-Oct-24	06-Jan-25	05-Jul-23	23-Feb-27	10-Aug-23		
Installation Drawing Submission		336	02-Oct-24	06-Jan-25	05-Jul-23	23-Feb-27	08-Sep-23		
DS2695	Prepare & Submit Schedule of Installation Drawing	30	02-Oct-24	06-Nov-24	05-Jul-23	08-Aug-23			DS1050: FS 103
DS2705	Approval of Schedule of Installation Drawing	50	07-Nov-24	06-Jan-25	09-Aug-23	07-Oct-23			DS2695: FS
Traffic Control Devices		277	02-Oct-24	29-Oct-24	05-Aug-24	30-Aug-24	04-May-24		
DS8240	Resubmit Installation Drawing for Traffic Control Devices	12	02-Oct-24	15-Oct-24	05-Aug-24	16-Aug-24	04-May-24		DS5920: FS
DS8250	Approval of Installation Drawing for Traffic Control Devices	12	16-Oct-24	29-Oct-24	17-Aug-24	30-Aug-24			DS8240: FS, SC1150: FF
Communicaton System		12					16-Aug-24	09-Sep-24	
DS8580	Approval of Installation Drawing for Communication System	12					16-Aug-24	09-Sep-24	DS8570: FS, SC1280: FF
CCTV System		209	02-Oct-24	28-Oct-24	26-Jan-27	23-Feb-27	13-Dec-23		
DS8020	Resubmit Installation Drawing for CCTV System	26	02-Oct-24	14-Oct-24	26-Jan-27	05-Feb-27	13-Dec-23		DS8010: FS
DS8030	Approval of Installation Drawing for CCTV System	12	15-Oct-24	28-Oct-24	10-Feb-27	23-Feb-27			DS8020: FS, SC1410: FF
PABX System		278	02-Oct-24	28-Oct-24	29-Nov-24	24-Dec-24	08-Sep-23		
DS6030	Resubmit Installation Drawing for PABX System	12	02-Oct-24	14-Oct-24	29-Nov-24	10-Dec-24	08-Sep-23		DS6020: FS
DS6040	Approval of Installation Drawing for PABX System	12	15-Oct-24	28-Oct-24	11-Dec-24	24-Dec-24			DS6030: FS, SC1560: FF
Radio System		60	02-Oct-24	11-Dec-24	22-Apr-24	18-Jan-25			
DS6130	Prepare & Submit Installation Drawing for Radio System	12	02-Oct-24	16-Oct-24	22-Apr-24	06-May-24			DS2154: FS
DS6140	Comment on Installation Drawing for Radio System	24	17-Oct-24	13-Nov-24	22-Nov-24	19-Dec-24			DS6130: FS
DS6150	Resubmit Installation Drawing for Radio System	12	14-Nov-24	27-Nov-24	20-Dec-24	04-Jan-25			DS6140: FS
DS6160	Approval of Installation Drawing for Radio System	12	28-Nov-24	11-Dec-24	06-Jan-25	18-Jan-25			DS6150: FS, SC1930: FF
Detection System		123	02-Oct-24	28-Oct-24	26-Jan-27	23-Feb-27	09-Dec-23		
DS8280	Resubmit Installation Drawing for Detection System	24	02-Oct-24	14-Oct-24	26-Jan-27	05-Feb-27	09-Dec-23		DS6200: FS
DS8290	Approval of Installation Drawing for Detection System	12	15-Oct-24	28-Oct-24	10-Feb-27	23-Feb-27			DS8280: FS, SC2060: FF
Manual Fallback Control System		122	02-Oct-24	28-Oct-24	08-Jan-25	05-Feb-25	04-May-24		
DS8300	Resubmit Installation Drawing for Manual Fallback Control System	12	02-Oct-24	14-Oct-24	08-Jan-25	18-Jan-25	04-May-24		DS6240: FS



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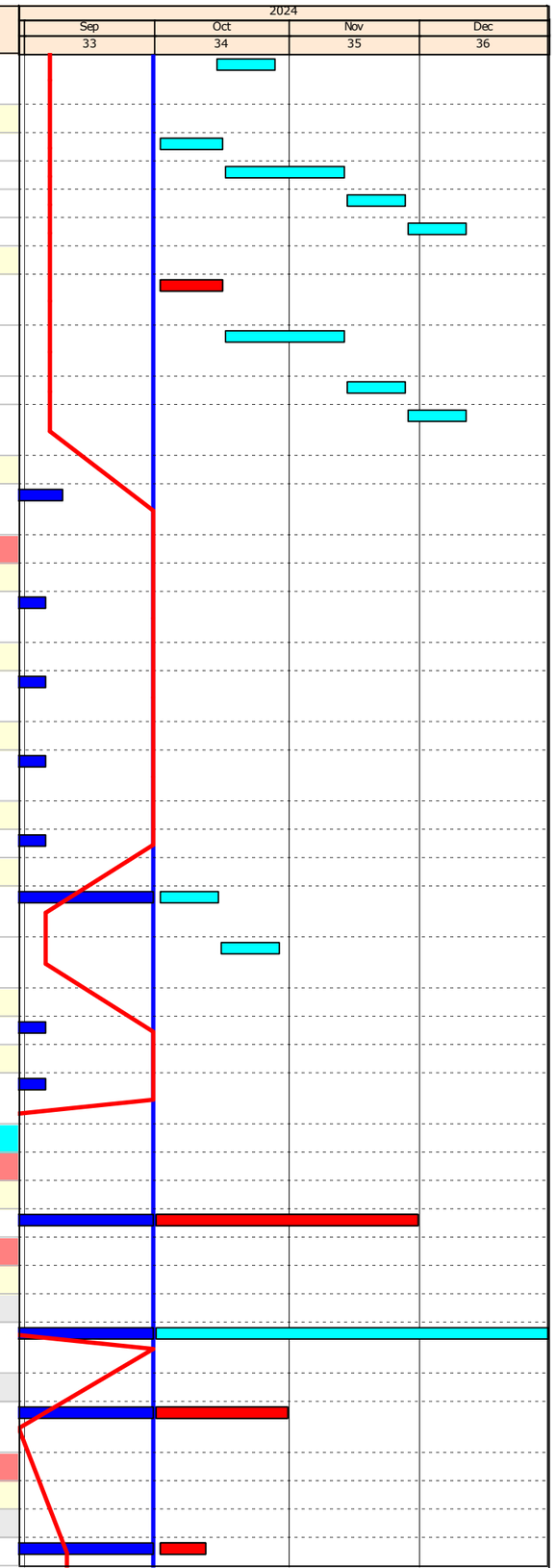
30-Sep-24	Rev. 0	MY	

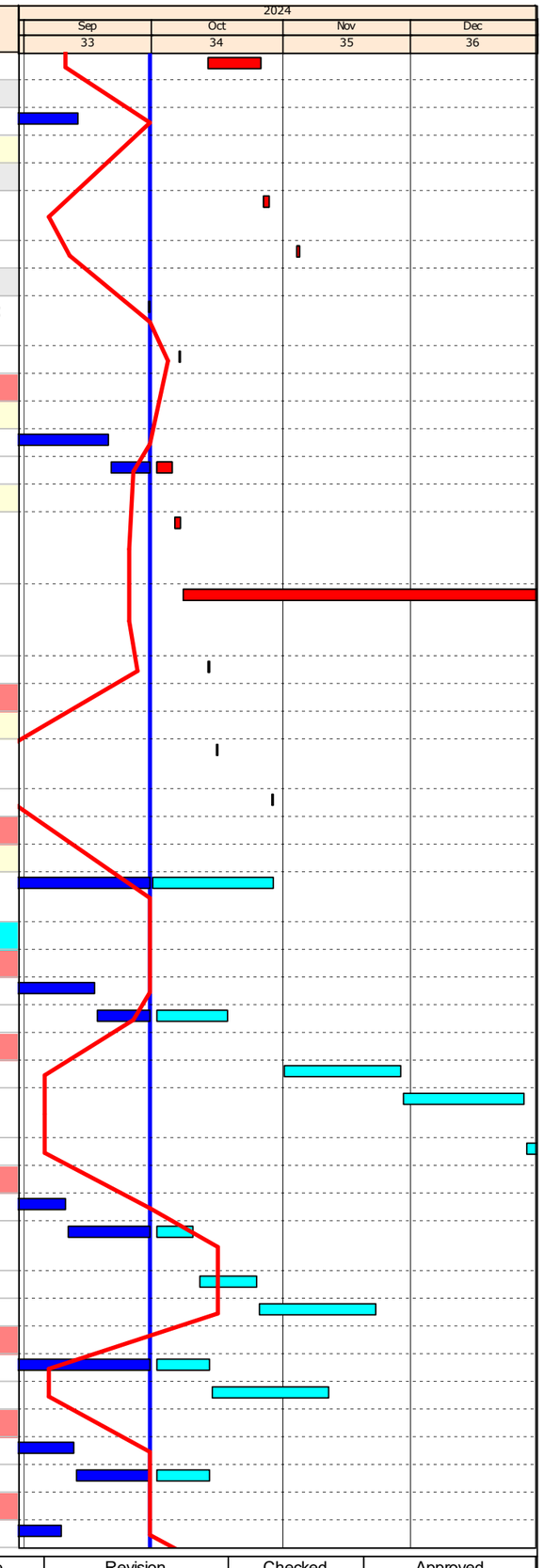
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
DS8310	Approval of Installation Drawing for Manual Fallback Control System	12	15-Oct-24	28-Oct-24	20-Jan-25	05-Feb-25			DS8300: FS, SC2190: FF
Operation Facility		60	02-Oct-24	11-Dec-24	04-Dec-24	17-Feb-25			
DS6250	Prepare & Submit Installation Drawing for Operation Facility	12	02-Oct-24	16-Oct-24	04-Dec-24	17-Dec-24			DS2532: FS
DS6260	Comment on Installation Drawing for Operation Facility	24	17-Oct-24	13-Nov-24	18-Dec-24	16-Jan-25			DS6250: FS
DS6270	Resubmit Installation Drawing for Operation Facility	12	14-Nov-24	27-Nov-24	17-Jan-25	03-Feb-25			DS6260: FS
DS6280	Approval of Installation Drawing for Operation Facility	12	28-Nov-24	11-Dec-24	04-Feb-25	17-Feb-25			DS6270: FS, SC2630: FF
Speed Enforcement System		60	02-Oct-24	11-Dec-24	19-Feb-24	01-Mar-25			
DS6290	Prepare & Submit Installation Drawing for Speed Enforcement System	12	02-Oct-24	16-Oct-24	19-Feb-24	02-Mar-24			DS2472: FS
DS6300	Comment on Installation Drawing for Speed Enforcement System	24	17-Oct-24	13-Nov-24	02-Jan-25	01-Feb-25			DS6290: FS
DS6310	Resubmit Installation Drawing for Speed Enforcement System	12	14-Nov-24	27-Nov-24	03-Feb-25	15-Feb-25			DS6300: FS
DS6320	Approval of Installation Drawing for Speed Enforcement System	12	28-Nov-24	11-Dec-24	17-Feb-25	01-Mar-25			DS6310: FS, SC2340: FF
Government Optical Fibre System		12					16-Aug-24	09-Sep-24	
DS8560	Approval of Installation Drawing for Government Optical Fibre System	12					16-Aug-24	09-Sep-24	DS8550: FS, SC2550: FS
Installation Method Statement Submission		251	02-Oct-24	29-Oct-24	25-Jan-27	23-Feb-27	10-Aug-23		
Traffic Control Devices		12					28-Aug-24	05-Sep-24	
DS2810	Approval of Installation Method Statement for Installation of TCSS Field Equipment	12					28-Aug-24	05-Sep-24	DS2800: FS
CCTV Camera & VD Camera		12					28-Aug-24	05-Sep-24	
DS6440	Approval of Installation Method Statement for CCTV Camera & VD Camera	12					28-Aug-24	05-Sep-24	DS6430: FS
PABX, ET & PA Systems		12					28-Aug-24	05-Sep-24	
DS6480	Approval of Installation Method Statement for PABX, ET & PA Systems	12					28-Aug-24	05-Sep-24	DS6470: FS
Radio System		12					28-Aug-24	05-Sep-24	
DS6520	Approval of Installation Method Statement for Radio System	12					28-Aug-24	05-Sep-24	DS6510: FS
Power Distribution System		251	02-Oct-24	29-Oct-24	25-Jan-27	23-Feb-27	10-Aug-23		
DS6550	Resubmit Installation Method Statement for Power Distribution System	6	02-Oct-24	15-Oct-24	25-Jan-27	05-Feb-27	10-Aug-23		DS6540: FS
DS6560	Approval of Installation Method Statement for Power Distribution System	12	16-Oct-24	29-Oct-24	10-Feb-27	23-Feb-27			DS6550: FS
SEC System		12					28-Aug-24	05-Sep-24	
DS7410	Approval of Installation Method Statement for SEC System	12					28-Aug-24	05-Sep-24	DS7400: FS
Detection System		12					28-Aug-24	05-Sep-24	
DS7500	Approval of Installation Method Statement for Detection System	12					28-Aug-24	05-Sep-24	DS7490: FS
FAT Plan Submissions, Equipment Procurement & Manufacturing		348	01-Oct-24	05-Jan-25	28-Dec-23	23-Feb-27	01-Aug-23		
PA System		89	01-Oct-24	30-Nov-24	28-Dec-23	26-Feb-24	01-Aug-23		
Equipment FAT & Manufacturing		89	01-Oct-24	30-Nov-24	28-Dec-23	26-Feb-24	01-Aug-23		
EM1080	Manufacturing & Delivery of PA System	89	01-Oct-24	30-Nov-24	28-Dec-23	26-Feb-24	01-Aug-23		DS7590: FS, DS2292: FS
Traffic Control Devices		117	01-Oct-24	30-Dec-24	31-Jul-24	12-Feb-25	10-Oct-23		
Equipment FAT & Manufacturing		117	01-Oct-24	30-Dec-24	31-Jul-24	12-Feb-25	10-Oct-23		
PVMS		85	01-Oct-24	30-Dec-24	14-Nov-24	12-Feb-25	10-Oct-23		
EM1030	Post-FAT Manufacturing & Delivery of Traffic Control Devices (PVMS)	85	01-Oct-24	30-Dec-24	14-Nov-24	12-Feb-25	10-Oct-23		DS4290: FF, SC1190: FF, EM1460: FS
LED Signage		85	01-Oct-24	31-Oct-24	31-Jul-24	30-Aug-24	12-Mar-24		
EM1650	Post-FAT Manufacturing & Delivery of Traffic Control Devices (LED Signage)	85	01-Oct-24	31-Oct-24	31-Jul-24	30-Aug-24	12-Mar-24		EM1461: FS, SC1190: FF, DS4291: FS, DS8160: FS
Detection System		38	02-Oct-24	04-Nov-24	02-Aug-24	18-Jan-25	27-Aug-24		
FAT Plan Submission		31	02-Oct-24	26-Oct-24	02-Aug-24	26-Aug-24	27-Aug-24		
VD & HMD		31	02-Oct-24	26-Oct-24	02-Aug-24	26-Aug-24	28-Aug-24		
DS8530	Resubmission of FAT Plan for Detection System	12	02-Oct-24	12-Oct-24	02-Aug-24	12-Aug-24	28-Aug-24		DS4480: FS



Remaining Work
Actual Work
Critical Activity
Milestone

Date	Revision	Checked	Approved
30-Sep-24	Rev. 0	MY	

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
DS8540	Approval of FAT Plan for Detection System	12	14-Oct-24	26-Oct-24	13-Aug-24	26-Aug-24			DS8530: FS, SC2080: FF
OHVD		12					27-Aug-24	13-Sep-24	
DS8520	Approval of FAT Plan for Detection System	12					27-Aug-24	13-Sep-24	DS8510: FS, SC2080: FF
Equipment FAT & Manufacturing		28	07-Oct-24	04-Nov-24	27-Aug-24	18-Jan-25	30-Sep-24		
VD & HMD		7	27-Oct-24	04-Nov-24	27-Aug-24	04-Sep-24			
EM1530	FAT of Detection System - VD & HMD	2	27-Oct-24	28-Oct-24	27-Aug-24	28-Aug-24			SC2090: FF, EM1100: FS, SC2100: FS, DS8540: FS
DS4490	Submit Detection System FAT Test Report	1	04-Nov-24	04-Nov-24	04-Sep-24	04-Sep-24			EM1530: FS 6
OHVD		5	07-Oct-24	07-Oct-24	18-Jan-25	18-Jan-25	30-Sep-24		
EM1670	FAT of Detection System - OHVD	2					30-Sep-24	30-Sep-24	EM1660: FS, SC2090: SS, SC2100: FS, DS8520: FS
DS8460	Submit Detection System FAT Test Report	1	07-Oct-24	07-Oct-24	18-Jan-25	18-Jan-25			EM1670: FS 6
Operation Facilities		75	02-Oct-24	05-Jan-25	23-May-24	27-Aug-24	28-Aug-24		
FAT Plan Submission		26	02-Oct-24	05-Oct-24	23-May-24	27-May-24	28-Aug-24		
DS4620	Resubmission of FAT Plan for Operation Facility	12					28-Aug-24	20-Sep-24	DS4610: FS
DS4630	Approval of FAT Plan for Operation Facility	12	02-Oct-24	05-Oct-24	23-May-24	27-May-24	21-Sep-24		DS4620: FS, SC2650: FF
Equipment FAT & Manufacturing		75	06-Oct-24	05-Jan-25	28-May-24	27-Aug-24			
EM1550	FAT of Operation Facilities	2	06-Oct-24	07-Oct-24	28-May-24	29-May-24			DS4630: FS, SC2660: FF, DS7310: FS, EM1560: FS, DS7550: FS, DS7670: FS
EM1120	Post-FAT Manufacturing & Delivery of Operation Facilities	90	08-Oct-24	05-Jan-25	30-May-24	27-Aug-24			EM1550: FS, DS4640: FF, SC2670: FF, DS2530: FS, DS2532: FS
DS4640	Submit Operation Facilities FAT Test Report	1	14-Oct-24	14-Oct-24	27-Aug-24	27-Aug-24			EM1550: FS 6, DS7550: FS
Speed Enforcement System		12	16-Oct-24	29-Oct-24	10-Feb-27	23-Feb-27			
Equipment FAT & Manufacturing		12	16-Oct-24	29-Oct-24	10-Feb-27	23-Feb-27			
EM1600	SEC System Bench Test	1	16-Oct-24	16-Oct-24	10-Feb-27	10-Feb-27			EM1570: FS 60, DS8370: FS 60, DS6550: FS
DS4740	Submit SEC System Bech Test Report	1	29-Oct-24	29-Oct-24	23-Feb-27	23-Feb-27			EM1600: FS 12
Manual Fallback Control System		90	01-Oct-24	29-Oct-24	08-Jan-25	05-Feb-25	01-Aug-24		
Equipment FAT & Manufacturing		90	01-Oct-24	29-Oct-24	08-Jan-25	05-Feb-25	01-Aug-24		
EM1110	Post-FAT Configuration of Manual Fallback Control System	90	01-Oct-24	29-Oct-24	08-Jan-25	05-Feb-25	01-Aug-24		EM1540: FS, DS4790: FF, SC2200: FF
SCT Plan Submissions		143	02-Oct-24	11-Jan-25	13-Aug-24	02-May-25	13-Aug-24		
Central System		32	02-Oct-24	18-Oct-24	27-Feb-25	14-Mar-25	23-Aug-24		
DS2960	Resubmission of SCT Plan for Central System	12					23-Aug-24	17-Sep-24	DS2950: FS
DS2970	Approval of SCT Plan for Central System	24	02-Oct-24	18-Oct-24	27-Feb-25	14-Mar-25	18-Sep-24		DS2960: FS, SC1070: FF
Traffic Control Devices		60	01-Nov-24	11-Jan-25	12-Nov-24	22-Jan-25			
DS2980	Submission of Traffic Control Devices SCT Plan	24	01-Nov-24	28-Nov-24	12-Nov-24	09-Dec-24			EM1650: FS
DS2990	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Nov-24	27-Dec-24	10-Dec-24	08-Jan-25			DS2980: FS
DS3000	Resubmission of SCT Plan for Traffic Control Devices	12	28-Dec-24	11-Jan-25	09-Jan-25	22-Jan-25			DS2990: FS
Communication System		48	02-Oct-24	22-Nov-24	20-Jan-25	14-Mar-25	14-Aug-24		
DS3020	Submission of Communication System SCT Plan	24					14-Aug-24	10-Sep-24	EM1040: FS
DS3030	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	02-Oct-24	10-Oct-24	20-Jan-25	28-Jan-25	11-Sep-24		DS3020: FS
DS3040	Resubmission of SCT Plan for Communication System	12	12-Oct-24	25-Oct-24	01-Feb-25	14-Feb-25			DS3030: FS
DS3050	Approval of SCT Plan for Communication System	24	26-Oct-24	22-Nov-24	15-Feb-25	14-Mar-25			DS3040: FS, SC1340: FF
CCTV System		42	02-Oct-24	11-Nov-24	20-Dec-24	03-Feb-25	14-Aug-24		
DS3080	Resubmission of SCT Plan for CCTV System	12	02-Oct-24	14-Oct-24	20-Dec-24	02-Jan-25	14-Aug-24		DS3070: FS
DS3090	Approval of SCT Plan for CCTV System	24	15-Oct-24	11-Nov-24	03-Jan-25	03-Feb-25			DS3080: FS, SC1460: FF
PABX System		38	02-Oct-24	14-Oct-24	26-Mar-25	07-Apr-25	23-Aug-24		
DS3120	Resubmission of SCT Plan for PABX System	12					23-Aug-24	12-Sep-24	DS3110: FS
DS3130	Approval of SCT Plan for PABX System	24	02-Oct-24	14-Oct-24	26-Mar-25	07-Apr-25	13-Sep-24		DS3120: FS, SC1600: FF
ET System		48	02-Oct-24	21-Nov-24	15-Jan-25	08-Mar-25	13-Aug-24		
DS3140	Submission of ET System SCT Plan	24					13-Aug-24	09-Sep-24	EM1070: FS



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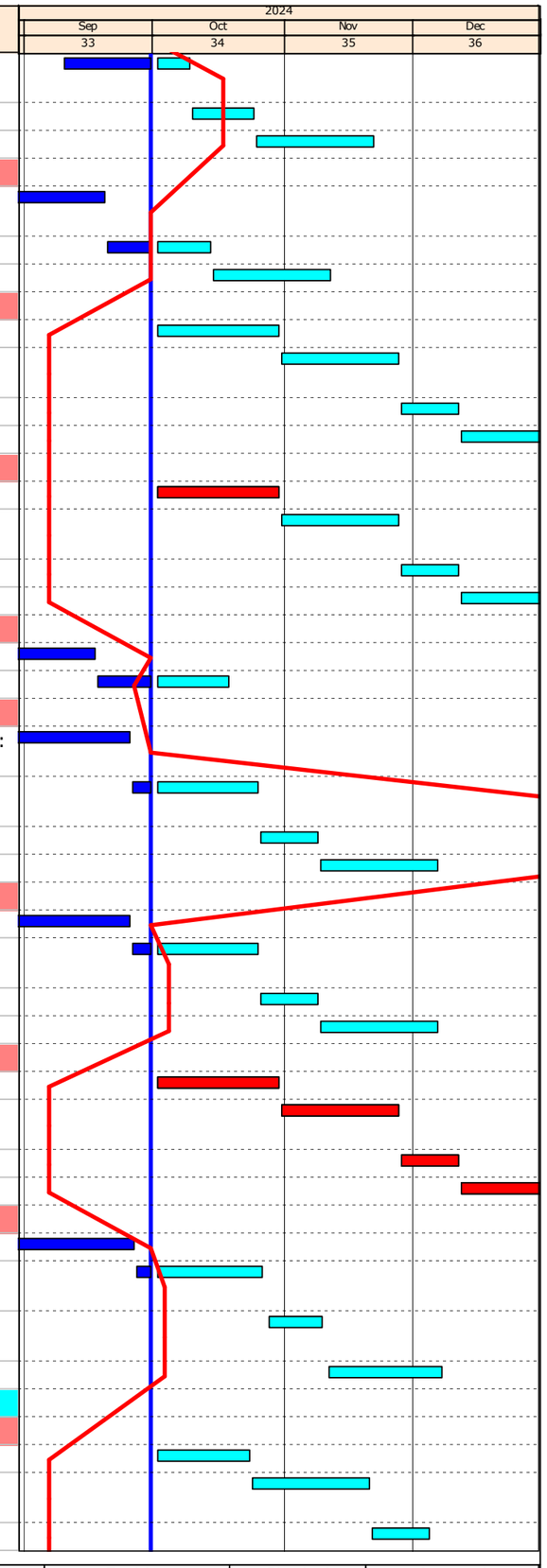
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
DS3150	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	02-Oct-24	09-Oct-24	15-Jan-25	22-Jan-25	10-Sep-24		DS3140: FS
DS3160	Resubmission of SCT Plan for ET System	12	10-Oct-24	24-Oct-24	23-Jan-25	08-Feb-25			DS3150: FS
DS3170	Approval of SCT Plan for ET System	24	25-Oct-24	21-Nov-24	10-Feb-25	08-Mar-25			DS3160: FS, SC1730: FF
PA System		52	02-Oct-24	11-Nov-24	12-Feb-25	22-Mar-25	16-Aug-24		
DS3210	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24					16-Aug-24	19-Sep-24	DS3200: FS
DS8590	Resubmission of SCT Plan for PA System	12	02-Oct-24	14-Oct-24	12-Feb-25	22-Feb-25	20-Sep-24		DS3210: FS
DS8600	Approval of SCT Plan for PA System	24	15-Oct-24	11-Nov-24	24-Feb-25	22-Mar-25			DS8590: FS, SC1850: FF
Radio System		84	02-Oct-24	10-Jan-25	29-Oct-24	15-Mar-25			
DS3220	Submission of Radio System SCT Plan	24	02-Oct-24	30-Oct-24	29-Oct-24	25-Nov-24			EM1090: SS 30
DS3230	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-Oct-24	27-Nov-24	02-Jan-25	01-Feb-25			DS3220: FS
DS3240	Resubmission of SCT Plan for Radio System	12	28-Nov-24	11-Dec-24	03-Feb-25	15-Feb-25			DS3230: FS
DS3250	Approval of SCT Plan for Radio System	24	12-Dec-24	10-Jan-25	17-Feb-25	15-Mar-25			DS3240: FS, SC1980: FF
Detection System		84	02-Oct-24	10-Jan-25	09-Sep-24	17-Jan-25			
DS3260	Submission of Detection System SCT Plan	24	02-Oct-24	30-Oct-24	09-Sep-24	08-Oct-24			EM1100: FS, EM1660: FS
DS3270	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-Oct-24	27-Nov-24	07-Nov-24	04-Dec-24			DS3260: FS
DS3280	Resubmission of SCT Plan for Detection System	12	28-Nov-24	11-Dec-24	05-Dec-24	18-Dec-24			DS3270: FS
DS3290	Approval of SCT Plan for Detection System	24	12-Dec-24	10-Jan-25	19-Dec-24	17-Jan-25			DS3280: FS, SC2110: FF
Manual Fallback Control System		32	02-Oct-24	18-Oct-24	27-Feb-25	14-Mar-25	23-Aug-24		
DS3320	Resubmission of SCT Plan for Manual Fallback Control System	12					23-Aug-24	17-Sep-24	DS3310: FS
DS3330	Approval of SCT Plan for Manual Fallback Control System	24	02-Oct-24	18-Oct-24	27-Feb-25	14-Mar-25	18-Sep-24		DS3320: FS, SC2250: FF
Operation Facility		105	02-Oct-24	06-Dec-24	25-Feb-25	02-May-25	28-Aug-24		
DS3340	Submission of Operation Facility SCT Plan	24					28-Aug-24	25-Sep-24	DS4630: FS, EM1120: FS, DS7300: FS
DS3350	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	02-Oct-24	25-Oct-24	25-Feb-25	19-Mar-25	26-Sep-24		DS3340: FS
DS3360	Resubmission of SCT Plan for Operation Facility	12	26-Oct-24	08-Nov-24	20-Mar-25	02-Apr-25			DS3350: FS
DS3370	Approval of SCT Plan for Operation Facility	24	09-Nov-24	06-Dec-24	03-Apr-25	02-May-25			DS3360: FS, SC2690: FF
Speed Enforcement System		56	02-Oct-24	06-Dec-24	14-Jan-25	22-Mar-25	28-Aug-24		
DS3380	Submission of Speed Enforcement System SCT Plan	24					28-Aug-24	25-Sep-24	EM1130: FS
DS3390	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	02-Oct-24	25-Oct-24	14-Jan-25	08-Feb-25	26-Sep-24		DS3380: FS
DS3400	Resubmission of SCT Plan for Speed Enforcement System	12	26-Oct-24	08-Nov-24	10-Feb-25	22-Feb-25			DS3390: FS
DS3410	Approval of SCT Plan for Speed Enforcement System	24	09-Nov-24	06-Dec-24	24-Feb-25	22-Mar-25			DS3400: FS, SC2370: FF
Power Distribution System		84	02-Oct-24	10-Jan-25	13-Aug-24	21-Nov-24			
DS3420	Submission of Power Distribution System SCT Plan	24	02-Oct-24	30-Oct-24	13-Aug-24	09-Sep-24			EM1620: FS, DS2592: FS
DS3430	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-Oct-24	27-Nov-24	10-Sep-24	09-Oct-24			DS3420: FS
DS3440	Resubmission of SCT Plan for Power Distribution System	12	28-Nov-24	11-Dec-24	10-Oct-24	24-Oct-24			DS3430: FS
DS3450	Approval of SCT Plan for Power Distribution System	24	12-Dec-24	10-Jan-25	25-Oct-24	21-Nov-24			DS3440: FS, SC2490: FF
Government Optical Fibre System		57	02-Oct-24	07-Dec-24	20-Feb-25	28-Apr-25	29-Aug-24		
DS3460	Submission of Government Optical Fibre System SCT Plan	24					29-Aug-24	26-Sep-24	EM1630: FS
DS3470	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	02-Oct-24	26-Oct-24	20-Feb-25	15-Mar-25	27-Sep-24		DS3460: FS
DS3480	Resubmission of SCT Plan for Government Optical Fibre System	12	28-Oct-24	09-Nov-24	17-Mar-25	29-Mar-25			DS3470: FS
DS3490	Approval of SCT Plan for Government Optical Fibre System	24	11-Nov-24	07-Dec-24	31-Mar-25	28-Apr-25			DS3480: FS, SC2580: FF
SAT Plan Submissions		97	02-Oct-24	25-Jan-25	07-Nov-24	16-Aug-25			
Central System		78	02-Oct-24	03-Jan-25	07-Jan-25	11-Apr-25			
DS3500	Submission of Central System SAT Plan	18	02-Oct-24	23-Oct-24	07-Jan-25	27-Jan-25			DS2940: FS
DS3510	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	24-Oct-24	20-Nov-24	28-Jan-25	27-Feb-25			DS3500: FS
DS3520	Resubmission of SAT Plan for Central System	12	21-Nov-24	04-Dec-24	28-Feb-25	13-Mar-25			DS3510: FS



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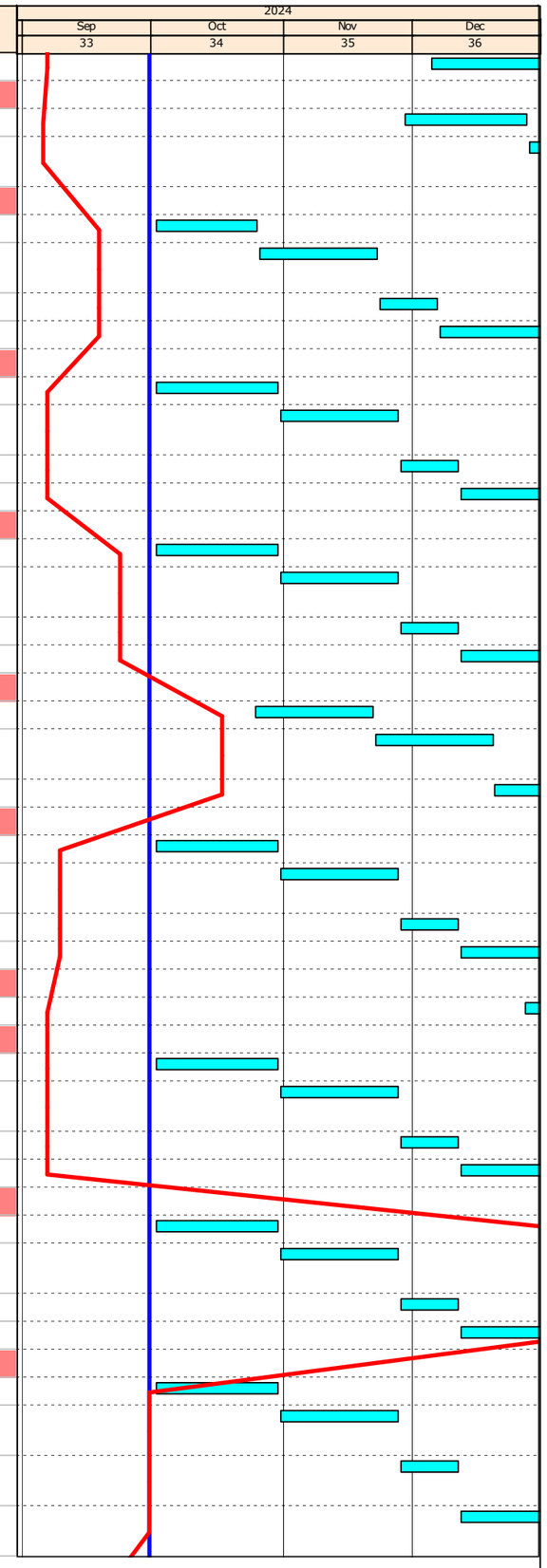
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
DS3530	Approval of SAT Plan for Central System	24	05-Dec-24	03-Jan-25	14-Mar-25	11-Apr-25			DS3520: FS, SC1090: FF
Traffic Control Devices		48	29-Nov-24	25-Jan-25	30-Dec-24	27-Feb-25			
DS3540	Submission of Traffic Control Devices System SAT Plan	24	29-Nov-24	27-Dec-24	30-Dec-24	27-Jan-25			DS2980: FS
DS3550	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	28-Dec-24	25-Jan-25	28-Jan-25	27-Feb-25			DS3540: FS
Communication System		80	02-Oct-24	06-Jan-25	07-Nov-24	13-Feb-25			
DS3580	Submission of Communication System SAT Plan	20	02-Oct-24	25-Oct-24	07-Nov-24	29-Nov-24			DS3020: SS 12
DS3590	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	26-Oct-24	22-Nov-24	30-Nov-24	28-Dec-24			DS3580: FS
DS3600	Resubmission of SAT Plan for Communication System	12	23-Nov-24	06-Dec-24	30-Dec-24	13-Jan-25			DS3590: FS
DS3610	Approval of SAT Plan for Communication System	24	07-Dec-24	06-Jan-25	14-Jan-25	13-Feb-25			DS3600: FS, SC1350: FF
CCTV System		84	02-Oct-24	10-Jan-25	24-Dec-24	07-Apr-25			
DS3620	Submission of CCTV System SAT Plan	24	02-Oct-24	30-Oct-24	24-Dec-24	22-Jan-25			DS3060: FS 24
DS3630	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-Oct-24	27-Nov-24	23-Jan-25	22-Feb-25			DS3620: FS
DS3640	Resubmission of SAT Plan for CCTV System	12	28-Nov-24	11-Dec-24	24-Feb-25	08-Mar-25			DS3630: FS
DS3650	Approval of SAT Plan for CCTV System	24	12-Dec-24	10-Jan-25	10-Mar-25	07-Apr-25			DS3640: FS, SC1480: FF
PABX System		84	02-Oct-24	10-Jan-25	09-May-25	16-Aug-25			
DS3660	Submission of PABX System SAT Plan	24	02-Oct-24	30-Oct-24	09-May-25	06-Jun-25			DS3100: FS 48
DS3670	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-Oct-24	27-Nov-24	07-Jun-25	05-Jul-25			DS3660: FS
DS3680	Resubmission of SAT Plan for PABX System	12	28-Nov-24	11-Dec-24	07-Jul-25	19-Jul-25			DS3670: FS
DS3690	Approval of SAT Plan for PABX System	24	12-Dec-24	10-Jan-25	21-Jul-25	16-Aug-25			DS3680: FS, SC1610: FF
ET System		60	25-Oct-24	04-Jan-25	23-Jan-25	07-Apr-25			
DS3700	Submission of ET System SAT Plan	24	25-Oct-24	21-Nov-24	23-Jan-25	22-Feb-25			DS3140: FS 36
DS3710	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	22-Nov-24	19-Dec-24	24-Feb-25	22-Mar-25			DS3700: FS
DS3720	Resubmission of SAT Plan for ET System	12	20-Dec-24	04-Jan-25	24-Mar-25	07-Apr-25			DS3710: FS
PA System		84	02-Oct-24	10-Jan-25	23-Apr-25	02-Aug-25			
DS3740	Submission of PA System SAT Plan	24	02-Oct-24	30-Oct-24	23-Apr-25	22-May-25			DS3180: FS 48
DS3750	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-Oct-24	27-Nov-24	23-May-25	20-Jun-25			DS3740: FS
DS3760	Resubmission of SAT Plan for PA System	12	28-Nov-24	11-Dec-24	21-Jun-25	05-Jul-25			DS3750: FS
DS3770	Approval of SAT Plan for PA System	24	12-Dec-24	10-Jan-25	07-Jul-25	02-Aug-25			DS3760: FS, SC1870: FF
Radio System		24	27-Dec-24	24-Jan-25	23-Jan-25	22-Feb-25			
DS3780	Submission of Radio System SAT Plan	24	27-Dec-24	24-Jan-25	23-Jan-25	22-Feb-25			DS3220: FS 48
Manual Fallback Control System		84	02-Oct-24	10-Jan-25	12-Nov-24	22-Feb-25			
DS3860	Submission of Manual Fallback Control System SAT Plan	24	02-Oct-24	30-Oct-24	12-Nov-24	09-Dec-24			DS3300: FS
DS3870	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-Oct-24	27-Nov-24	10-Dec-24	08-Jan-25			DS3860: FS
DS3880	Resubmission of SAT Plan for Manual Fallback Control System	12	28-Nov-24	11-Dec-24	09-Jan-25	22-Jan-25			DS3870: FS
DS3890	Approval of SAT Plan for Manual Fallback Control System	24	12-Dec-24	10-Jan-25	23-Jan-25	22-Feb-25			DS3880: FS, SC2270: FF
Operation Facility		84	02-Oct-24	10-Jan-25	30-Dec-24	11-Apr-25			
DS3900	Submission of Operation Facility SAT Plan	24	02-Oct-24	30-Oct-24	30-Dec-24	27-Jan-25			DS3340: FS
DS3910	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-Oct-24	27-Nov-24	28-Jan-25	27-Feb-25			DS3900: FS
DS3920	Resubmission of SAT Plan for Operation Facility	12	28-Nov-24	11-Dec-24	28-Feb-25	13-Mar-25			DS3910: FS
DS3930	Approval of SAT Plan for Operation Facility	24	12-Dec-24	10-Jan-25	14-Mar-25	11-Apr-25			DS3920: FS, SC2710: FF
Speed Enforcement System		84	02-Oct-24	10-Jan-25	30-Dec-24	11-Apr-25			
DS3940	Submission of Speed Enforcement System Reliability Test Plan	24	02-Oct-24	30-Oct-24	30-Dec-24	27-Jan-25			DS3380: FS
DS3950	Comment on Reliability Test Plan/ Workshops (System Briefing & Comment Discussion)	24	31-Oct-24	27-Nov-24	28-Jan-25	27-Feb-25			DS3940: FS
DS3960	Resubmission of Reliability Test Plan for Speed Enforcement System	12	28-Nov-24	11-Dec-24	28-Feb-25	13-Mar-25			DS3950: FS
DS3970	Approval of Reliability Test Plan for Speed Enforcement System	24	12-Dec-24	10-Jan-25	14-Mar-25	11-Apr-25			DS3960: FS, SC2380: FF



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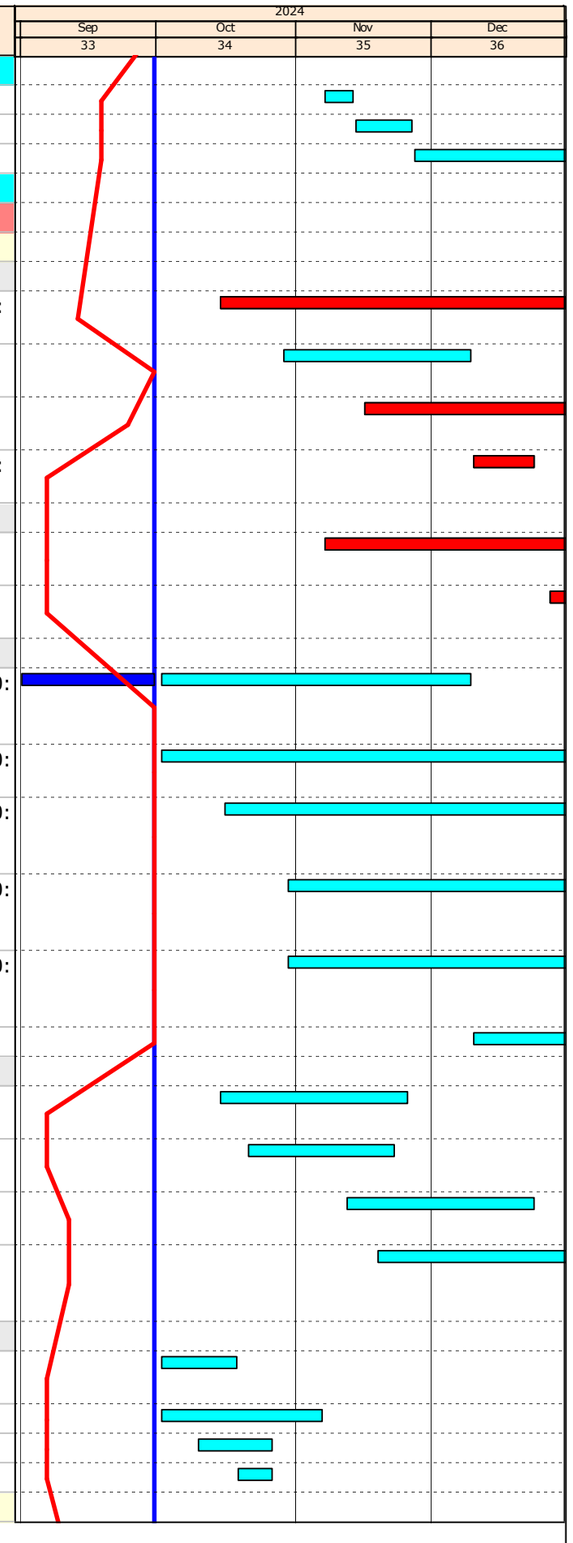
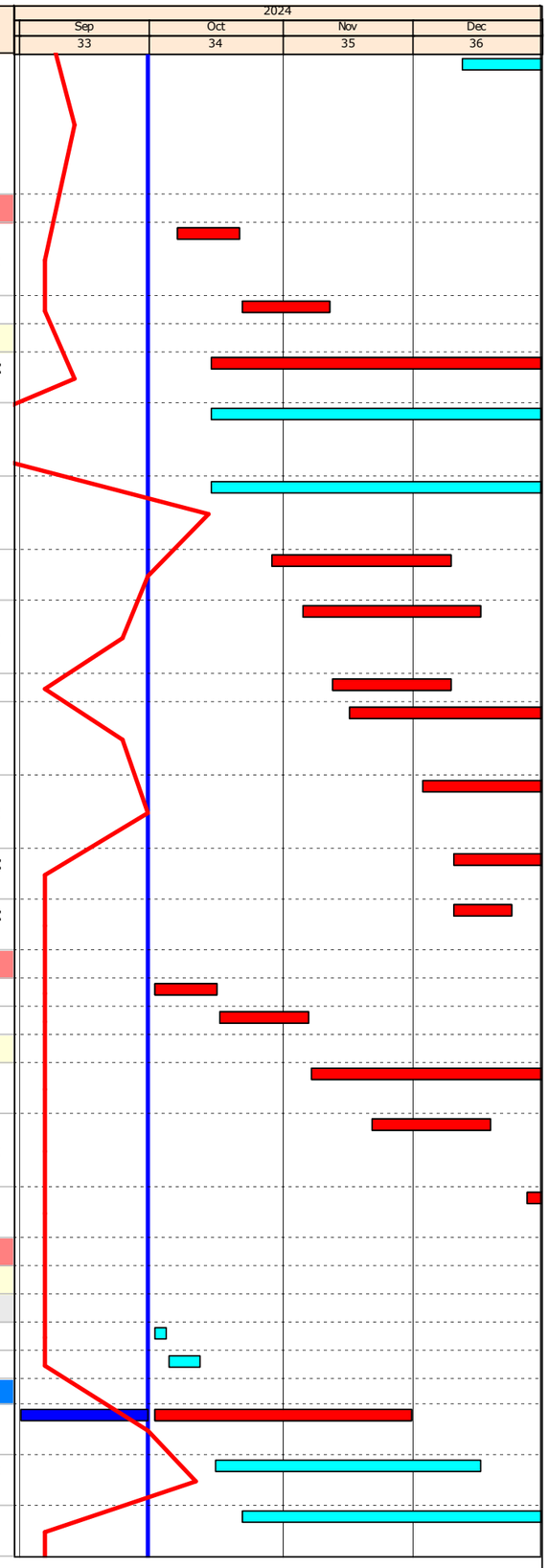
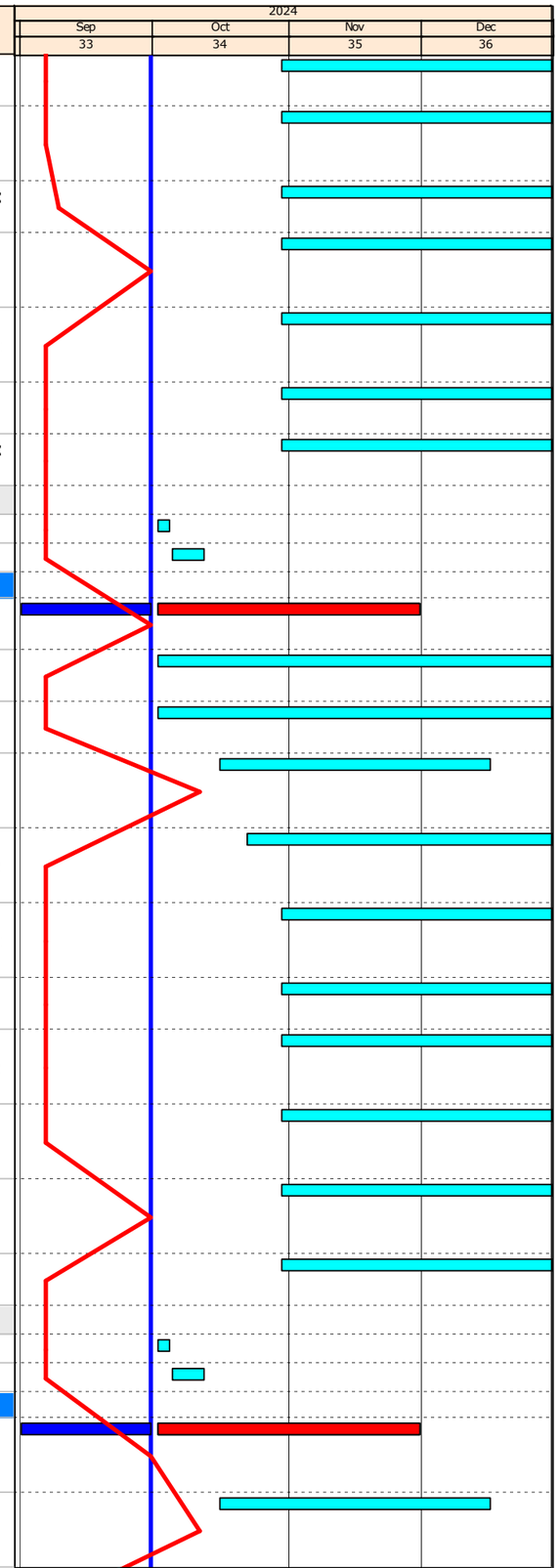
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
Training Document & O&M Manual Submission for T2/TKOLTT TCSS		65	07-Nov-24	23-Jan-25	26-Aug-25	12-Nov-25			
DS3980	Submit Document for System Description	6	07-Nov-24	13-Nov-24	26-Aug-25	01-Sep-25			DS3580: SS 30
DS4010	Submit System Administration Manual	11	14-Nov-24	26-Nov-24	02-Sep-25	13-Sep-25			DS3980: FS
DS4020	Submit Training Manual	48	27-Nov-24	23-Jan-25	15-Sep-25	12-Nov-25			DS4010: FS
Site Installation and Testing & Commissioning		401	02-Oct-24	30-Aug-25	12-Jun-24	23-Feb-27	01-Apr-24		
Installation & Testing Related to Stage 2 of Works		275	02-Oct-24	30-Aug-25	13-Jul-24	23-Feb-27	01-Sep-24		
Installation		116	02-Oct-24	20-Feb-25	13-Jul-24	23-Feb-27	01-Sep-24		
Portion 4 - TKO-LTT (LT Interchange)		76	15-Oct-24	13-Jan-25	13-Jul-24	03-Feb-25			
SW1930	Install Cable Containments	65	15-Oct-24	30-Dec-24	13-Jul-24	27-Sep-24			DS6404: FS, DS6540: FS, SW1020: SS 6
SW1940	Install CCTV Camera	36	29-Oct-24	09-Dec-24	18-Dec-24	03-Feb-25			SW1040: SS 12, SW1930: SS 12, DS4090: FS, DS6440: FS
SW1950	Laying of Signal Cable - the 1st Section	48	16-Nov-24	13-Jan-25	08-Oct-24	03-Dec-24			SW1040: SS 22, SW1060: SS 10, SW1070: SS 10, SW1930: SS 22
SW1960	Install Equipment in Kiosk C	12	10-Dec-24	23-Dec-24	20-Nov-24	03-Dec-24			SW1050: FS, DS4340: FS, DS4440: FS
Portion 1 - South Apron Up to SUS		66	07-Nov-24	24-Jan-25	18-Jul-24	04-Oct-24			
SW2000	Install Cable Containments - the 1st Section	48	07-Nov-24	03-Jan-25	18-Jul-24	11-Sep-24			SW1220: FS, SC2480: FF, DS6404: FS, DS6540: FS
SW2010	Install CCTV Camera	24	27-Dec-24	24-Jan-25	05-Sep-24	04-Oct-24			SW2000: SS 42, SC1470: FF, DS4090: FS, DS6440: FS
Portion 2 - Tunnel Section, Service Gallery, WVB & EVB		116	02-Oct-24	20-Feb-25	02-Sep-24	23-Feb-27	01-Sep-24		
SW2080	Install Cable Containments	75	02-Oct-24	09-Dec-24	02-Sep-24	23-Feb-27	01-Sep-24		SW2300: SS, SW2400: SS, SW2510: SS, SW2600: SS, SW2720: SS
SW2120	Signal Cable Laying	116	02-Oct-24	20-Feb-25	08-Oct-24	23-Feb-27			SW2500: SS, SW2710: SS, SW2790: SS
SW2100	Install ET	78	16-Oct-24	16-Jan-25	03-Jan-25	23-Feb-27			SW2340: SS, SW2480: SS, SW2590: SS, SW2680: SS, SW2820: SS
SW2090	Install CCTV Camera	60	30-Oct-24	09-Jan-25	16-Nov-24	23-Feb-27			SW2310: SS, SW2430: SS, SW2550: SS, SW2640: SS, SW2760: SS
SW2110	Install Radio System in Service Gallery	72	30-Oct-24	23-Jan-25	04-Jan-25	23-Feb-27			SW2390: SS, SW2470: SS, SW2570: SS, SW2660: SS, SW2800: SS
SW2130	Laying of Leaky Cable	58	10-Dec-24	20-Feb-25	19-Feb-25	23-Feb-27			SW2850: SS
Portion 3 - CKL Branch Tunnel in TKO-LTT Site		66	15-Oct-24	31-Dec-24	07-Feb-25	22-Apr-25			
SW2230	Install Cable Containments	36	15-Oct-24	25-Nov-24	13-Feb-25	26-Mar-25			SW1860: FS, SC2480: FF, DS6404: FS, DS6540: FS
SW2220	Install CCTV Camera	29	21-Oct-24	22-Nov-24	07-Feb-25	12-Mar-25			SW1860: SS 12, SC1470: FF, DS4090: FS, DS6440: FS
SW2250	Signal Cable Laying	36	12-Nov-24	23-Dec-24	11-Mar-25	22-Apr-25			SW2230: SS 18, SW1900: FF, SW2220: SS 6, SW1880: SS 6
SW2240	Laying of Leaky Cable	36	19-Nov-24	31-Dec-24	21-Feb-25	03-Apr-25			SW2230: SS 6, SW2220: SS 12, SW1880: SS 12, SW1900: FF 6, SW1870: SS 22
Underpass S21		30	02-Oct-24	06-Nov-24	26-Apr-25	03-Jun-25			
SW2260	Install Cable Containment	14	02-Oct-24	18-Oct-24	26-Apr-25	14-May-25			AC1040: SS, SC2480: FF, DS6404: FS, DS6540: FS
SW2280	Laying of Leaky Cable	30	02-Oct-24	06-Nov-24	26-Apr-25	03-Jun-25			SW2260: SS
SW2290	Laying of Power Cable From TCSS Cabinet in T2 Area	14	10-Oct-24	26-Oct-24	17-May-25	03-Jun-25			SW2260: SS 7
SW2270	Install YAGI Antenna	7	19-Oct-24	26-Oct-24	26-May-25	03-Jun-25			SW2260: FS
Testing		215	12-Dec-24	30-Aug-25	04-Feb-25	23-Feb-27			



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
TC1590	Testing of FS-related TCSS Equipment	215	12-Dec-24	30-Aug-25	04-Feb-25	23-Feb-27			TC1400: SS, TC1600: SS, TC1040: SS, TC1170: SS, TC1270: SS, TC1390: SS, TC1010: SS, TC1140: SS, TC1330: SS, TC1370: SS, TC1350: SS
Portion 4 - TKO-LTT (LT Interchange)		96	07-Oct-24	01-Feb-25	06-Jul-24	03-Feb-25			
SW1020	Inpect Civil Provisions & Submit Inspection Report	12	07-Oct-24	21-Oct-24	06-Jul-24	19-Jul-24			AC1030: SS 5, DS6600: FS, DS6680: FS, DS6760: FS, DS6840: FS
SW1030	Rectify Civil Provision Defects by Others	18	22-Oct-24	11-Nov-24	31-Aug-24	21-Sep-24			SW1020: FS
Installation Works		90	15-Oct-24	01-Feb-25	13-Jul-24	03-Feb-25			
SW1040	Install Cable Containments	65	15-Oct-24	30-Dec-24	13-Jul-24	27-Sep-24			DS6400: FS, DS6540: FS, SW1020: SS 6
SW1130	Install VSLS on Gantry	65	15-Oct-24	30-Dec-24	17-Oct-24	02-Jan-25			SC1210: FF, DS2810: FS, EM1650: SS, SW1040: SS, DS5920: FS
SW1140	Install PVMS on Gantry	65	15-Oct-24	30-Dec-24	14-Nov-24	03-Feb-25			SC1210: FF, EM1030: SS, DS2810: FS, SW1040: SS, DS5920: FS
SW1060	Install CCTV Camera	36	29-Oct-24	09-Dec-24	25-Sep-24	07-Nov-24			SW1040: SS 12, SW1930: SS 12, DS4090: FS, DS6440: FS
SW1070	Install Detection Camera	36	05-Nov-24	16-Dec-24	25-Sep-24	07-Nov-24			SW1040: SS 12, SW1930: SS 12, DS4490: FS, DS6440: FS, DS7500: FS
SW1050	Install Equipment Racks	24	12-Nov-24	09-Dec-24	23-Sep-24	22-Oct-24			SW1030: FS
SW1080	Laying of Signal Cable - the 1st Section	48	16-Nov-24	13-Jan-25	08-Oct-24	03-Dec-24			SW1040: SS 22, SW1060: SS 10, SW1070: SS 10, SW1930: SS 22, DS8480: FS, DS8580: FS
SW1110	Install Traffic Control Devices	48	03-Dec-24	01-Feb-25	31-Aug-24	29-Oct-24			SW1040: SS 42, SW1930: SS 42, DS2810: FS, EM1650: FS, DS8250: FS
SW1100	Install Server Equipment	36	10-Dec-24	22-Jan-25	23-Oct-24	03-Dec-24			SW1050: FS, DS4440: FS, DS4340: FS
SW1120	Install Equipment in Kiosk C	12	10-Dec-24	23-Dec-24	20-Nov-24	03-Dec-24			SW1050: FS, DS4340: FS, DS4440: FS
Portion 1 - South Apron Up to SUS		96	02-Oct-24	24-Jan-25	12-Jun-24	04-Oct-24			
SW1210	Inspect Civil Provisions & Submit Inspection Report	12	02-Oct-24	16-Oct-24	12-Jun-24	25-Jun-24			AC1000: SS
SW1220	Rectify Civil Provision Defects by Others	18	17-Oct-24	06-Nov-24	26-Jun-24	17-Jul-24			SW1210: FS
Installation Works		66	07-Nov-24	24-Jan-25	18-Jul-24	04-Oct-24			
SW1230	Install Cable Containments - the 1st Section	48	07-Nov-24	03-Jan-25	18-Jul-24	11-Sep-24			SW1220: FS, SC2480: FF, DS6404: FS, DS6540: FS
SW1250	Install Detection Cameras	24	21-Nov-24	18-Dec-24	05-Sep-24	04-Oct-24			SW1230: SS 12, SW2000: SS 12, DS4490: FS, DS6440: FS, DS7500: FS
SW1240	Install CCTV Camera	24	27-Dec-24	24-Jan-25	05-Sep-24	04-Oct-24			SW1230: SS 42, SC1470: FF, DS4090: FS, DS6440: FS
Portion 2 - Tunnel Section, Service Gallery, WVB & EVB		242	02-Oct-24	20-Feb-25	06-Sep-24	23-Feb-27	01-Apr-24		
Tunnel Section		116	02-Oct-24	20-Feb-25	16-Sep-24	23-Feb-27	01-Sep-24		
Tunnel Section - CH 6+568 to CH 7+100		75	02-Oct-24	30-Dec-24	21-Sep-24	23-Feb-27	01-Sep-24		
SW2860	Inspect Civil Provisions & Submit Inspection Report	3	02-Oct-24	04-Oct-24	13-Feb-27	16-Feb-27			AC1050: SS
SW2870	Rectify Civil Provision Defects by Others	6	05-Oct-24	12-Oct-24	17-Feb-27	23-Feb-27			SW2860: FS
Installation Works		75	02-Oct-24	30-Dec-24	21-Sep-24	22-Mar-25	01-Sep-24		
SW2300	Install Cable Containment	75	02-Oct-24	30-Nov-24	21-Sep-24	21-Nov-24	01-Sep-24		SC2480: FF, DS6540: FS, AC1050: SS
SW2340	Install ET	53	16-Oct-24	16-Dec-24	03-Jan-25	08-Mar-25			DS4190: FS, DS6080: FS, DS6480: FS, SW2300: SS 35
SW2370	Install PA in Service Gallery	59	22-Oct-24	30-Dec-24	26-Dec-24	08-Mar-25			SW2300: SS 40, DS4240: FS, DS6480: FS, DS6120: FS



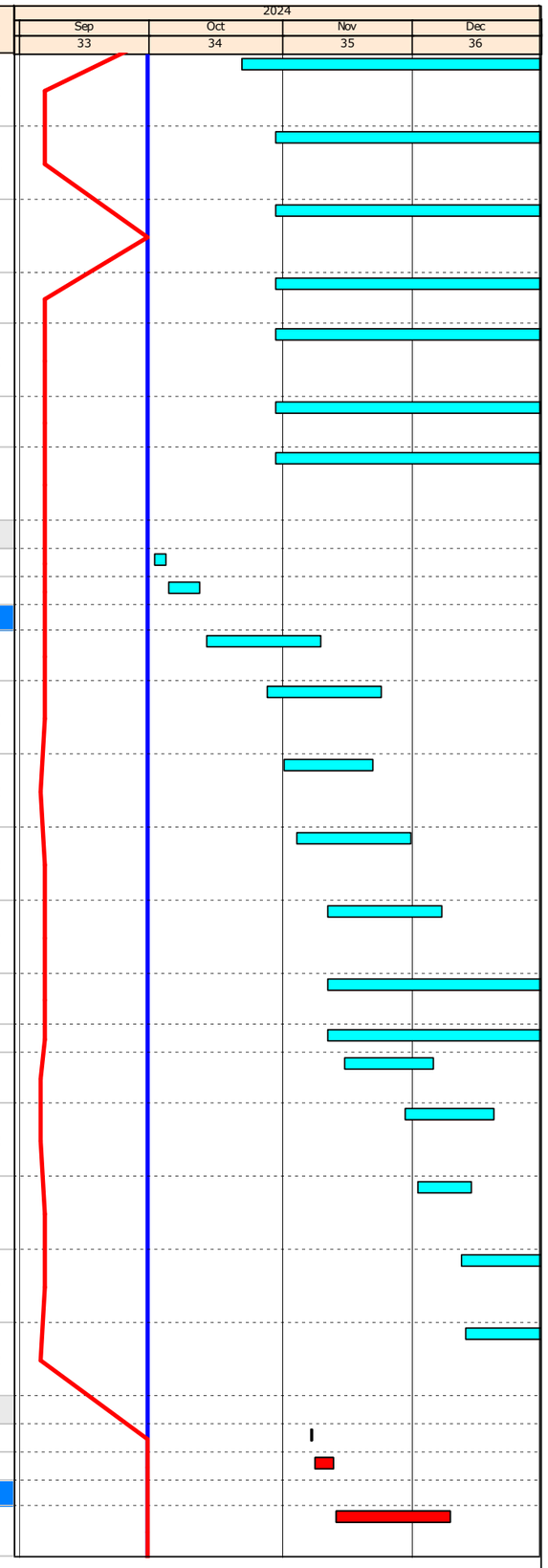
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
SW2310	Install CCTV Camera	52	30-Oct-24	30-Dec-24	16-Nov-24	17-Jan-25			SW2360: SS, SC1470: FF, DS4090: FS, DS6440: FS
SW2320	Install Detection Camera	52	30-Oct-24	30-Dec-24	16-Nov-24	17-Jan-25			SW2310: SS, SC2120: FF, DS6440: FS, DS7500: FS, EM1530: FS
SW2330	Install SEC Camera	52	30-Oct-24	30-Dec-24	18-Jan-25	22-Mar-25			SW2320: SS, EM1130: FS, DS7410: FS
SW2350	Install Traffic Control Devices	52	30-Oct-24	30-Dec-24	19-Dec-24	22-Feb-25			SW2300: SS, SC1210: FF, DS2810: FS, EM1650: SS, DS8250: FS
SW2360	Install VSLS	52	30-Oct-24	30-Dec-24	16-Nov-24	17-Jan-25			SW2300: SS 18, SC1210: FF, DS2810: FS, EM1650: SS, DS8250: FS
SW2380	Install PABX in Service Gallery	52	30-Oct-24	30-Dec-24	04-Jan-25	08-Mar-25			SW2370: SS 7, DS4140: FS, DS6480: FS, DS6030: FS
SW2390	Install Radio System in Service Gallery	52	30-Oct-24	30-Dec-24	04-Jan-25	08-Mar-25			SW2380: SS, DS4390: FS, DS6520: FS
Tunnel Section - CH 7+100 to CH 7+600		75	02-Oct-24	30-Dec-24	16-Sep-24	23-Feb-27	01-Sep-24		
SW2880	Inspect Civil Provisions & Submit Inspection Report	3	02-Oct-24	04-Oct-24	13-Feb-27	16-Feb-27			AC1060: SS
SW2890	Rectify Civil Provision Defects by Others	6	05-Oct-24	12-Oct-24	17-Feb-27	23-Feb-27			SW2880: FS
Installation Works		75	02-Oct-24	30-Dec-24	16-Sep-24	28-Apr-25	01-Sep-24		
SW2400	Install Cable Containment	75	02-Oct-24	30-Nov-24	16-Sep-24	16-Nov-24	01-Sep-24		SC2480: FF, DS6404: FS, DS6540: FS, AC1060: SS
SW2490	Install GOFS (CH 6+568 to CH 7+100)	75	02-Oct-24	30-Dec-24	27-Jan-25	28-Apr-25			SC2570: FF, DS8560: FS, SW2400: SS 17
SW2500	Signal Cable Laying and Termination (CH 6+568 to CH 7+100)	75	02-Oct-24	30-Dec-24	08-Oct-24	06-Jan-25			SC2480: FF, DS8560: FS, SW2400: SS 17
SW2480	Install ET	53	16-Oct-24	16-Dec-24	03-Jan-25	08-Mar-25			SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS, SW2400: SS 35
SW2410	Install PA in Service Gallery	59	22-Oct-24	30-Dec-24	26-Dec-24	08-Mar-25			SW2400: SS 40, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS
SW2420	Install VSLS	52	30-Oct-24	30-Dec-24	16-Nov-24	17-Jan-25			SW2400: SS 18, SC1210: FF, DS2810: FS, EM1650: SS, DS8250: FS
SW2430	Install CCTV Camera	52	30-Oct-24	30-Dec-24	16-Nov-24	17-Jan-25			SW2420: SS, SC1470: FF, DS4090: FS, DS6440: FS
SW2440	Install PABX in Service Gallery	52	30-Oct-24	30-Dec-24	04-Jan-25	08-Mar-25			SW2410: SS 7, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS
SW2450	Install Detection Camera	52	30-Oct-24	30-Dec-24	16-Nov-24	17-Jan-25			SW2430: SS, SC2120: FF, DS6440: FS, DS7500: FS, EM1530: FS
SW2460	Install Traffic Control Devices	52	30-Oct-24	30-Dec-24	19-Dec-24	22-Feb-25			SW2400: SS, SC1210: FF, DS2810: FS, EM1650: SS, DS8250: FS
SW2470	Install Radio System in Service Gallery	52	30-Oct-24	30-Dec-24	04-Jan-25	08-Mar-25			SW2440: SS, SC1990: FF, DS4390: FS, DS6520: FS
Tunnel Section - CH 7+600 to CH 8+100		75	02-Oct-24	30-Dec-24	21-Sep-24	23-Feb-27	01-Sep-24		
SW2900	Inspect Civil Provisions & Submit Inspection Report	3	02-Oct-24	04-Oct-24	13-Feb-27	16-Feb-27			AC1070: SS
SW2910	Rectify Civil Provision Defects by Others	6	05-Oct-24	12-Oct-24	17-Feb-27	23-Feb-27			SW2900: FS
Installation Works		75	02-Oct-24	30-Dec-24	21-Sep-24	08-Mar-25	01-Sep-24		
SW2510	Install Cable Containment	75	02-Oct-24	30-Nov-24	21-Sep-24	21-Nov-24	01-Sep-24		SC2480: FF, EM1620: FF, DS6404: FS, DS6540: FS, AC1070: SS
SW2590	Install ET	53	16-Oct-24	16-Dec-24	03-Jan-25	08-Mar-25			SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS, SW2510: SS 35



Remaining Work
Actual Work
Critical Activity
Milestone

Date	Revision	Checked	Approved
30-Sep-24	Rev. 0	MY	

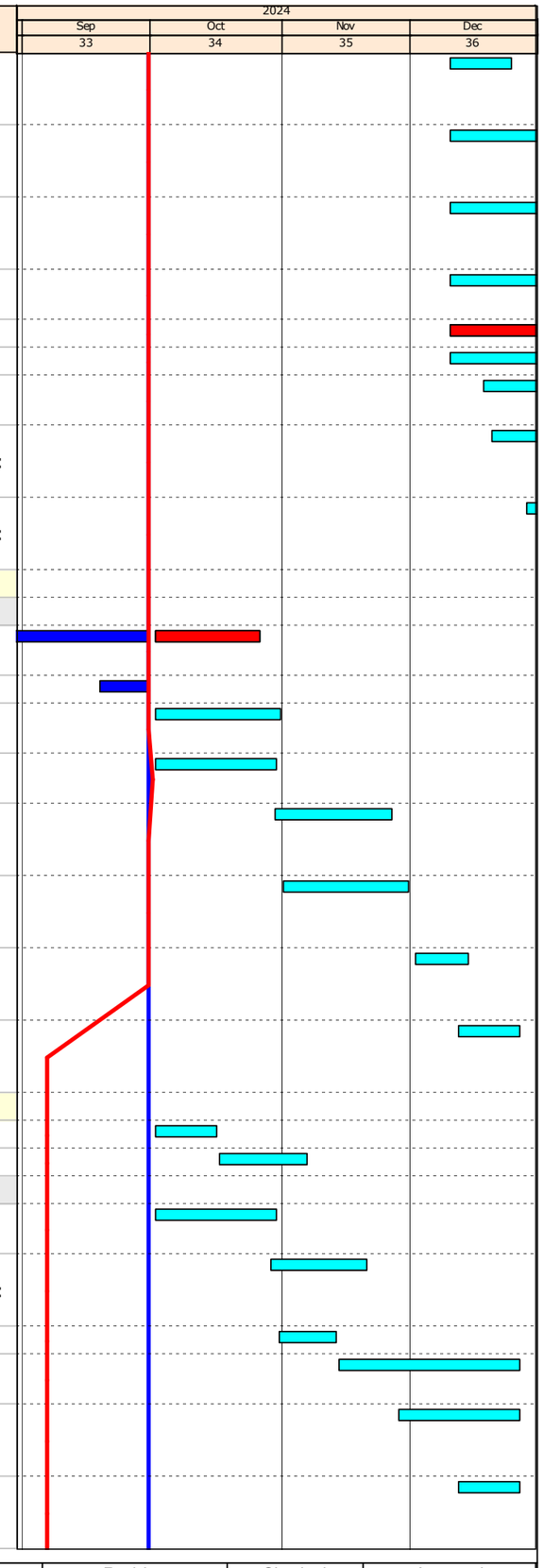
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
SW2530	Install PA in Service Gallery	59	22-Oct-24	30-Dec-24	26-Dec-24	08-Mar-25			SW2510: SS 40, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS
SW2520	Install VSLS	52	30-Oct-24	30-Dec-24	16-Nov-24	17-Jan-25			SW2510: SS 12, SC1210: FF, DS2810: FS, EM1650: SS, DS8250: FS
SW2540	Install Traffic Control Devices	52	30-Oct-24	30-Dec-24	19-Dec-24	22-Feb-25			SW2510: SS, SC1210: FF, DS2810: FS, EM1650: SS, DS8250: FS
SW2550	Install CCTV Camera	52	30-Oct-24	30-Dec-24	16-Nov-24	17-Jan-25			SW2520: SS, SC1470: FF, DS4090: FS, DS6440: FS
SW2560	Install PABX in Service Gallery	52	30-Oct-24	30-Dec-24	04-Jan-25	08-Mar-25			SW2530: SS 7, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS
SW2570	Install Radio System in Service Gallery	52	30-Oct-24	30-Dec-24	04-Jan-25	08-Mar-25			SW2560: SS, SC1990: FF, DS4390: FS, DS6520: FS
SW2580	Install Detection Camera	52	30-Oct-24	30-Dec-24	16-Nov-24	17-Jan-25			SW2550: SS, SC2120: FF, DS6440: FS, DS7500: FS, EM1530: FS
Tunnel Section - CH 8+100 to CH 8+750		84	02-Oct-24	10-Jan-25	04-Oct-24	28-Apr-25			
SW2920	Inspect Civil Provisions & Submit Inspection Report	3	02-Oct-24	04-Oct-24	04-Oct-24	07-Oct-24			AC1080: SS
SW2930	Rectify Civil Provision Defects by Others	6	05-Oct-24	12-Oct-24	08-Oct-24	15-Oct-24			SW2920: FS
Installation Works		75	14-Oct-24	10-Jan-25	16-Oct-24	28-Apr-25			
SW2600	Install Cable Containment	24	14-Oct-24	09-Nov-24	16-Oct-24	12-Nov-24			SC2480: FF, SW2930: FS, DS6404: FS, DS6540: FS
SW2620	Install PA in Service Gallery	24	28-Oct-24	23-Nov-24	16-Jan-25	15-Feb-25			SW2600: SS 12, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS
SW2610	Install VSLS	18	01-Nov-24	21-Nov-24	28-Nov-24	18-Dec-24			SW2600: SS 12, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS
SW2630	Install Traffic Control Devices	24	04-Nov-24	30-Nov-24	23-Jan-25	22-Feb-25			SW2600: SS 18, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS
SW2650	Install PABX in Service Gallery	24	11-Nov-24	07-Dec-24	03-Feb-25	01-Mar-25			SW2620: SS 12, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS
SW2700	Install GOFS (CH 7+600 to CH 8+750)	45	11-Nov-24	03-Jan-25	06-Mar-25	28-Apr-25			SW2600: FS, SC2570: FF, DS8560: FS
SW2710	Signal Cable Laying and Termination (CH 7+600 to CH 8+750)	45	11-Nov-24	03-Jan-25	13-Nov-24	06-Jan-25			SW2600: FS, SC2480: FF
SW2640	Install CCTV Camera	18	15-Nov-24	05-Dec-24	12-Dec-24	03-Jan-25			SW2610: SS 12, SC1470: FF, DS4090: FS, DS6440: FS
SW2670	Install Detection Camera	18	29-Nov-24	19-Dec-24	27-Dec-24	17-Jan-25			SW2640: SS 12, SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS
SW2680	Install ET	12	02-Dec-24	14-Dec-24	24-Feb-25	08-Mar-25			SW2630: FS, SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS
SW2660	Install Radio System in Service Gallery	24	12-Dec-24	10-Jan-25	10-Feb-25	08-Mar-25			SW2650: SS 6, SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS
SW2690	Install SEC Camera	18	13-Dec-24	04-Jan-25	03-Mar-25	22-Mar-25			SW2670: SS 12, SC2390: FF, EM1130: FS, DS6320: FS, DS7410: FS
Tunnel Section - CH 8+750 to CH 9+250		86	07-Nov-24	20-Feb-25	07-Nov-24	28-Apr-25			
SW2940	Inspect Civil Provisions & Submit Inspection Report	1	07-Nov-24	07-Nov-24	07-Nov-24	07-Nov-24			AC1090: SS
SW2950	Rectify Civil Provision Defects by Others	4	08-Nov-24	12-Nov-24	08-Nov-24	12-Nov-24			SW2940: FS
Installation Works		81	13-Nov-24	20-Feb-25	13-Nov-24	28-Apr-25			
SW2720	Install Cable Containment	23	13-Nov-24	09-Dec-24	13-Nov-24	09-Dec-24			SC2480: FF, SW2950: FS, DS6404: FS, DS6540: FS



Remaining Work
Actual Work
Critical Activity
Milestone

Date	Revision	Checked	Approved
30-Sep-24	Rev. 0	MY	

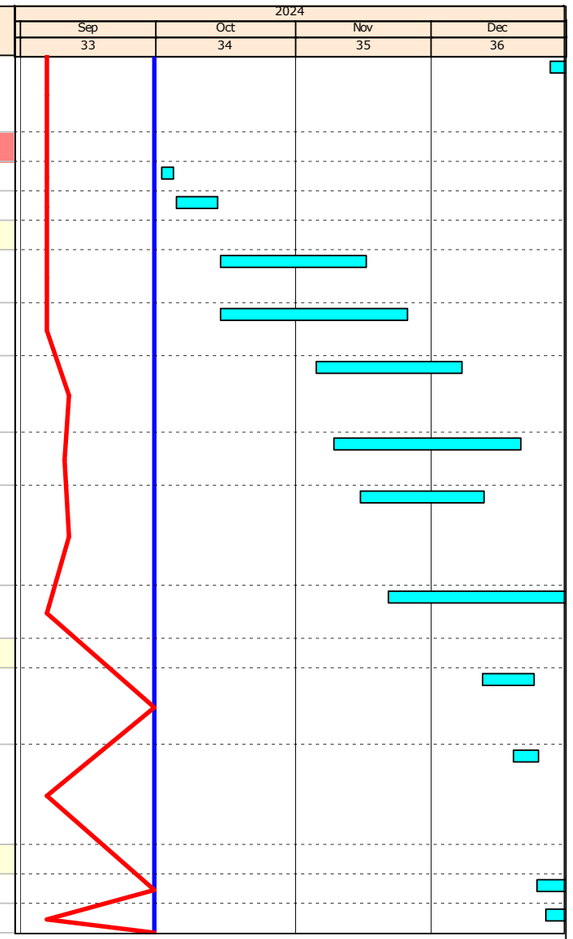
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
SW2730	Install VSLS	13	10-Dec-24	24-Dec-24	17-Jan-25	04-Feb-25			SW2720: FS, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS
SW2740	Install PA in Service Gallery	19	10-Dec-24	02-Jan-25	01-Mar-25	22-Mar-25			SW2720: FS, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS
SW2750	Install Traffic Control Devices	19	10-Dec-24	02-Jan-25	08-Mar-25	29-Mar-25			SW2720: FS, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS
SW2780	Install GOFS (CH 7+600 to CH 8+750)	58	10-Dec-24	20-Feb-25	19-Feb-25	28-Apr-25			SW2720: FS, SC2570: FF, DS8560: FS
SW2790	Signal Cable Laying and Termination (CH 7+600 to CH 8+750)	58	10-Dec-24	20-Feb-25	10-Dec-24	20-Feb-25			SW2720: FS, SC2480: FF
SW2850	Laying of Leaky Cable	58	10-Dec-24	20-Feb-25	19-Feb-25	28-Apr-25			SW2720: FS
SW2760	Install CCTV Camera	18	18-Dec-24	09-Jan-25	25-Jan-25	18-Feb-25			SW2730: SS 7, SC1470: FF, DS4090: FS, DS6440: FS
SW2770	Install PABX in Service Gallery	22	20-Dec-24	16-Jan-25	12-Mar-25	07-Apr-25			SW2740: SS 9, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS
SW2800	Install Radio System in Service Gallery	22	28-Dec-24	23-Jan-25	26-Mar-25	21-Apr-25			SW2770: SS 6, SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS
West Ventilation Building		198	02-Oct-24	26-Dec-24	06-Sep-24	15-Mar-25	01-Apr-24		
Installation Works		198	02-Oct-24	26-Dec-24	06-Sep-24	15-Mar-25	01-Apr-24		
SW1650	Install Cable Containments	24	02-Oct-24	26-Oct-24	06-Sep-24	02-Oct-24	01-Apr-24		SC2480: FF, DS6400: FS, DS6540: FS
SW1660	Position Equipment Rack	10					19-Sep-24	30-Sep-24	SW1650: SS 10, DS4610: FS 18
SW1670	Install Network Equipment	25	02-Oct-24	31-Oct-24	16-Jan-25	17-Feb-25			SW1660: FS, SC1330: FF, DS4340: FS, DS4440: FS
SW1690	Install PABX Equipment	24	02-Oct-24	30-Oct-24	17-Dec-24	15-Jan-25			SW1650: SS 18, SC1590: FF, DS4140: FS, DS6480: FS
SW1680	Install Manual Fallback Control Equipment	24	30-Oct-24	26-Nov-24	06-Feb-25	05-Mar-25			SW1670: SS 12, EM1110: FS, SC2240: FF, DS6240: FS, DS7370: FS, DS8310: FS
SW1720	Install PA Equipment	26	01-Nov-24	30-Nov-24	17-Jan-25	19-Feb-25			SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS, SW1690: FS 1
SW1730	Install ET Equipment	12	02-Dec-24	14-Dec-24	20-Feb-25	05-Mar-25			SW1720: FS, SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS
SW1710	Install Radio Equipment	12	12-Dec-24	26-Dec-24	03-Mar-25	15-Mar-25			SW1690: FS, SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS
East Ventilation Building		84	02-Oct-24	10-Jan-25	20-Nov-24	23-Feb-27			
SW2960	Inspect Civil Provisions & Submit Inspection Report	12	02-Oct-24	16-Oct-24	16-Jan-27	29-Jan-27			AC1010: SS, KD1010: FS
SW2970	Rectify Civil Provision Defects by Others	18	17-Oct-24	06-Nov-24	30-Jan-27	23-Feb-27			SW2960: FS
Installation Works		84	02-Oct-24	10-Jan-25	20-Nov-24	05-Mar-25			
SW1750	Install Cable Containments	24	02-Oct-24	30-Oct-24	20-Nov-24	17-Dec-24			SC2480: FF, DS6400: FS, DS6540: FS
SW1790	Install PABX Equipment	20	29-Oct-24	20-Nov-24	26-Dec-24	18-Jan-25			SW1750: SS 18, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS
SW1760	Position Equipment Rack	12	31-Oct-24	13-Nov-24	18-Dec-24	02-Jan-25			SW1750: FS
SW1770	Install Network Equipment	36	14-Nov-24	26-Dec-24	03-Jan-25	17-Feb-25			SW1760: FS, SC1330: FF, DS4340: FS, DS4440: FS
SW1780	Install Manual Fallback Control Equipment	24	28-Nov-24	26-Dec-24	06-Feb-25	05-Mar-25			SW1770: SS 12, EM1110: FS, SC2240: FF, DS6240: FS, DS7370: FS, DS8310: FS
SW1810	Install Radio Equipment	12	12-Dec-24	26-Dec-24	20-Jan-25	05-Feb-25			SW1790: FS, SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS



Remaining Work
Actual Work
Critical Activity
Milestone

Date	Revision	Checked	Approved
30-Sep-24	Rev. 0	MY	

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
SW1820	Install PA Equipment	12	27-Dec-24	10-Jan-25	06-Feb-25	19-Feb-25			SW1810: FS, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS
Portion 3 - CKL Branch Tunnel in TKO-LTT Site		95	02-Oct-24	23-Jan-25	11-Jan-25	19-Jun-25			
SW1850	Inspect Civil Provisions & Submit Inspection Report	3	02-Oct-24	04-Oct-24	11-Jan-25	14-Jan-25			AC1020: SS
SW1860	Rectify Civil Provision Defects by Others	7	05-Oct-24	14-Oct-24	15-Jan-25	22-Jan-25			SW1850: FS
Installation Works		68	15-Oct-24	03-Jan-25	23-Jan-25	22-Apr-25			
SW1870	Install CCTV Camera	29	15-Oct-24	16-Nov-24	23-Jan-25	28-Feb-25			SW1860: FS, SC1470: FF, DS4090: FS, DS6440: FS
SW1890	Install Cable Containments	36	15-Oct-24	25-Nov-24	01-Feb-25	14-Mar-25			SW1860: FS, SC2480: FF, DS6404: FS, DS6540: FS
SW1880	Install Detection Camera	29	05-Nov-24	07-Dec-24	07-Feb-25	12-Mar-25			SW1860: FS, SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS
SW1910	Laying of Leaky Cable	36	09-Nov-24	20-Dec-24	22-Feb-25	04-Apr-25			SW1890: SS 6, SW1870: SS 22, SW1880: SS, SW1900: FF 6
SW1900	Install Traffic Control Devices	24	15-Nov-24	12-Dec-24	28-Feb-25	27-Mar-25			SW1870: SS 9, SW1880: SS 9, SW2220: SS 9, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS
SW1920	Signal Cable Laying	36	21-Nov-24	03-Jan-25	11-Mar-25	22-Apr-25			SW1890: SS 32, SW1900: FF, SW1870: SS 6, SW1880: SS 6
Site Commissioning Test		11	12-Dec-24	24-Dec-24	09-Apr-25	02-May-25			
TC1370	SCT of ET System	10	12-Dec-24	23-Dec-24	21-Apr-25	02-May-25			SW1920: SS 18, SW1910: SS 18, DS3170: FS, SW2250: SS 18, SW2240: SS 18, SC1750: FF
TC1390	SCT of CCTV System	5	19-Dec-24	24-Dec-24	09-Apr-25	14-Apr-25			SW1870: FS, SW1920: SS 24, SW1910: SS 18, DS3090: FS, SW2220: FS, SW2250: SS 24, SW2240: SS 18, SC1500: FF
Submit Site Commissioning Test Report		25	24-Dec-24	23-Jan-25	22-May-25	19-Jun-25			
DS5160	Submit ET System SCT Test Report	24	24-Dec-24	22-Jan-25	22-May-25	19-Jun-25			TC1370: FS
DS5170	Submit CCTV System SCT Test Report	24	26-Dec-24	23-Jan-25	22-May-25	19-Jun-25			TC1390: FS



APPENDIX O
WASTE GENERATED IN THE REPORTING MONTH

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

Name of Department: CEDD

Monthly Summary Waste Flow Table for 2024 (KT)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging	i. Plastics	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
January	10.162	0.000	0.000	10.162	0.000	0.000	131.520	0.609	0.008	0.000	0.101
February	6.052	0.000	0.000	6.052	0.000	0.000	49.890	0.670	0.010	0.000	0.104
March	0.888	0.000	0.000	0.888	0.000	0.000	4.000	0.008	0.008	0.000	0.089
April	0.716	0.000	0.000	0.000	0.716	0.000	99.870	0.008	0.006	0.000	0.088
May	0.564	0.006	0.551	0.000	0.013	0.000	172.480	0.011	0.007	0.000	0.101
June	3.570	0.009	1.418	1.949	0.204	0.000	0.000	0.519	0.009	0.000	0.069
Sub-total	21.952	0.016	1.968	19.051	0.932	0.000	457.760	1.825	0.048	0.000	0.552
July	13.918	0.041	0.806	12.787	0.325	0.000	0.000	0.003	0.002	0.000	0.084
August	11.513	0.165	0.000	11.141	0.372	0.000	0.000	0.000	0.000	0.000	0.097
September	6.183	0.028	3.126	2.824	0.233	0.000	0.000	0.540	0.000	0.000	0.077
October											
November											
December											
Total	53.566	0.250	5.900	45.803	1.862	0.000	457.760	2.368	0.050	0.000	0.810

Monthly Summary Waste Flow Table

Notes:

(1)The performance targets are given in ER Appendix 8I Clause 14 and the EM&A Manual(s).

(2)The waste flow table shall also include C&D materials to be imported for use at the Site.

(3)Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(4)The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m3. (ER Part 8 Clause 8.8.5 (d) (ii) refers).

Monthly Summary Waste Flow Table For 2024

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Waste Generated Monthly							
	Total Quantity Generated	Broken Concrete (see Note 4)	Estimated Quantities (Broken Concrete)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Estimated Quantities (Metals)	Paper/ cardboard packaging	Estimated Quantities (Paper/ cardboard packaging)	Plastics (see Note 3)	Estimated Quantities (Plastics)	Chemical Waste	Others, e.g. general refuse
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(tonne)
Jan-24	0	0	**0**	0	0	0	0	**0**	0	**0**	0	**0**	0	0
Feb-24	0	0	**0**	0	0	0	0	**0**	0	**0**	0	**0**	0	0
Mar-24	0	0	**0**	0	0	0	0	**0**	0	**0**	0	**0**	0	0
Apr-24	0	0	**0**	0	0	0	0	**0**	0	**0**	0	**0**	0	0
May-24	0	0	**0**	0	0	0	0	**0**	0	**0**	0	**0**	0	0
Jun-24	0	0	**0**	0	0	0	0	**0**	0	**0**	0	**0**	0	30.33
Sub-total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**30.33**
Jul-24	0	0	**0**	0	0	0	0	**0**	0	**0**	0	**0**	0	0
Aug-24	0	0	**0**	0	0	0	0	**0**	0	**0**	0	**0**	0	0
Sep-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-24														
Nov-24														
Dec-24														
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**30.33**

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.