

Civil Engineering and Development Department

Contract No. ED/2018/04

**Trunk Road T2 and Infrastructure Works for
Developments at the Former South Apron
Quarterly Environmental Monitoring and Audit
Report**

(under EP-458/2013/C)

August 2024 - October 2024

(Version 1.0)

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

REMARKS:

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

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

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Ref.: CEDKTD2EM00_0_0686L.24.doc

12 November 2024

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

By Post and Email

Attention: Mr. Edwin Ching

Dear Mr. Ching,

**Re: Agreement No. EDO 01/2019
Independent Environmental Checker for
Contract No. ED/2018/04 – Trunk Road T2 and Infrastructure Works for
Developments at the Former South Apron
(Environmental Permit: EP-458/2013/C)**

Quarterly EM&A Summary Report (August 2024 to October 2024)

Reference is made to the Environmental Team's submission of the Quarterly EM&A Summary Report for August 2024 to October 2024 (Version 1.0) certified by the ET Leader and provided to us via email on 12 November 2024.

We are pleased to inform you that we have no adverse comment on the captioned submission.

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

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EXECUTIVE SUMMARY

Introduction

1. This is the 18th Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for “Trunk Road T2 and Infrastructure Works at the Former South Apron”. This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-458/2013/C and in accordance with the EM&A Manual (AEIAR-173/2013) during the reporting period from August 2024 to October 2024.

Summary of Main Works Undertaken and Key Measures Implemented

2. The construction activities undertaken in the reporting quarter were as follows:

Contract No.	Project Title	Reporting month	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	August 2024	<ul style="list-style-type: none"> • EVB – RC Structure, ABWF • East Bound – Additional cavern excavation • East Bound – Type A1 OHVD • East Bound – Type C Crown • West Bound – Pre-tunnel invert excavation
		September 2024	<ul style="list-style-type: none"> • EVB – RC Structure, ABWF, E&M works • East Bound – Additional cavern excavation • East Bound – Type A1 OHVD • East Bound – Type C Crown • West Bound – Pre-tunnel invert excavation
		October 2024	<ul style="list-style-type: none"> • EVB – RC Structure, ABWF, E&M works • East Bound – Type C OHVD • East Bound – Tunnel excavation
ED/2020/03	Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	August 2024 – October 2024	N/A

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

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

Construction Noise

- Construction activities were scheduled to minimize noise nuisance to the nearby sensitive receiver.
- Use of Quality Powered Mechanical Equipment (QPME) on site.
- Erected the noise barrier on site.

Air Quality

- Regularly watering on site to avoid dust generation.
- Cover cement bags with more than 20 bags per stack.

Landscape and Visual

- Tree protection zones were fenced off to protect the existing trees on site.

Environmental Monitoring Works

4. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
5. Summary of the non-compliance in the reporting quarter for the Project is tabulated in **Table I**. Details of the environmental monitoring results is presented in **Section 3**.

Table I Non-compliance (Exceedance) Record for the Project in the Reporting Quarter

Parameter	No. of Exceedance		No. of Exceedance due to Construction Activities of this Project		Action Taken
	Action Level	Limit Level	Action Level	Limit Level	
August 2024					
Air Quality	0	0	0	0	N/A
Noise	0	0	0	0	N/A
Marine Water Quality	N/A	N/A	N/A	N/A	N/A
Groundwater Level Monitoring (Piezometer Monitoring)	N/A	N/A	N/A	N/A	N/A
Ecological	N/A	N/A	N/A	N/A	N/A
Cultural Heritage	N/A	N/A	N/A	N/A	N/A
Landfill Gas	N/A	N/A	N/A	0	N/A
September 2024					
Air Quality	0	0	0	0	N/A
Noise	1	0	1	0	Refers to App J
Marine Water Quality	N/A	N/A	N/A	N/A	N/A
Groundwater Level Monitoring (Piezometer Monitoring)	N/A	N/A	N/A	N/A	N/A
Ecological	N/A	N/A	N/A	N/A	N/A
Cultural Heritage	N/A	N/A	N/A	N/A	N/A
Landfill Gas	N/A	N/A	N/A	0	N/A
October 2024					
Air Quality	0	0	0	0	N/A
Noise	0	0	0	0	N/A
Marine Water Quality	N/A	N/A	N/A	N/A	N/A

Parameter	No. of Exceedance		No. of Exceedance due to Construction Activities of this Project		Action Taken
	Action Level	Limit Level	Action Level	Limit Level	
Groundwater Level Monitoring (Piezometer Monitoring)	N/A	N/A	N/A	N/A	N/A
Ecological	N/A	N/A	N/A	N/A	N/A
Cultural Heritage	N/A	N/A	N/A	N/A	N/A
Landfill Gas	N/A	N/A	N/A	0	N/A

Note:

N/A - Not Applicable.

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

6. Summary of key information in the reporting quarter is tabulated in **Table II**.

Table II Summary Table for Key Information in the Reporting Quarter

Event	Event Details		Action Taken	Status
	Number	Nature		
Complaints Received	2	Noise, Light & Air	Detail refers to App J	Closed
Notifications of any summons & prosecutions received	0	---	N/A	N/A

N/A – Not Applicable

7. Environmental monitoring works for the Project are considered effective and is generating data to categorically identify the environmental impacts from the works and influencing factors in the vicinity of monitoring stations.

Reporting Changes in the Reporting Quarter

8. No reporting change in the reporting quarter.

1. INTRODUCTION

Background

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

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

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

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

Purpose of the Report

- 1.6 This is the 18th Quarterly EM&A Summary Report summarizing the EM&A works for the Project in between August 2024 and October 2024.

Project Organizations

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

Table 1.1 Key Project Contacts

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

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

Construction Activities undertaken during the Report Quarter

1.10 The major site activities undertaken in the reporting quarter are shown as follow:

Contract No.	Project Title	Reporting month	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	August 2024	<ul style="list-style-type: none"> • EVB – RC Structure, ABWF • East Bound – Additional cavern excavation • East Bound – Type A1 OHVD • East Bound – Type C Crown • West Bound – Pre-tunnel invert excavation
		September 2024	<ul style="list-style-type: none"> • EVB – RC Structure, ABWF, E&M works • East Bound – Additional cavern excavation • East Bound – Type A1 OHVD • East Bound – Type C Crown • West Bound – Pre-tunnel invert excavation
		October 2024	<ul style="list-style-type: none"> • EVB – RC Structure, ABWF, E&M works • East Bound – Type C OHVD • East Bound – Tunnel excavation
ED/2020/03	Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	August 2024 – October 2024	N/A

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

2. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

Monitoring Parameters and Monitoring Locations

- 2.1 The EM&A Manual designates locations for environmental monitoring in terms of air quality, noise, and landfill gas due to the Project. The Project area and monitoring locations are depicted in **Figures 2. Appendix A** gives details of monitoring requirements.

Monitoring Methodology and Calibration Details

- 2.2 Monitoring works/equipment were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the corresponding Monthly EM&A Reports.

Environmental Quality Performance Limits (Action and Limit Levels)

- 2.3 The environmental quality performance limits, i.e. Action and Limit Levels were derived from the baseline monitoring results. Should the measured environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in **Appendix B**.
- 2.4 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that the Action / Limit Levels are exceeded, the actions in accordance with the Event and Action Plans in **Appendix K** was carried out.

Implementation Status of Environmental Mitigation Measures

- 2.5 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the EM&A Manual for implementation by the Contractor. The implementation status of environmental mitigation measures (EMIS) is given in **Appendix G**.

Site Audit Summary

- 2.6 During site inspections in the reporting period, no non-compliances was recorded. The observations and recommendations made during the reporting period are summarized in **Appendix F**.

Status of Waste Management

- 2.7 The amount of wastes generated by the construction activities during the reporting period is shown in **Appendix H**.

3. MONITORING RESULTS

Weather Conditions

- 3.1 The weather during monitoring sessions was summarized in **Table 3.1**.

Table 3.1 Summary of Weather Conditions in the Reporting Period

Reporting Month	General Weather Conditions
August 2024	Sunny, Cloudy, Fine
September 2024	Sunny, Cloudy, Fine
October 2024	Sunny, Cloudy, Fine

- 3.2 The detail of weather conditions for each individual monitoring session was presented in the corresponding monthly EM&A report.

Air Quality

- 3.3 All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.
- 3.4 All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded in the reporting quarter.
- 3.5 The graphical presentations of the air quality monitoring results are shown in **Appendix C**.

Construction Noise

- 3.6 All noise monitoring was conducted as scheduled in the reporting month. One (1) Action Level exceedance was recorded in this reporting quarter and no Limit Level exceedance was recorded in this reporting quarter. The graphical presentations of the noise monitoring results are shown in **Appendix D**.

Water Quality

Groundwater Quality

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

Marine Water Quality

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

Groundwater Level Monitoring (Piezometer Monitoring)

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

Ecological Monitoring

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

Monitoring on Cultural Heritage

- 3.11 As the construction works of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building are located more than 100m away from the Cha Kwo Ling Tin Hau temple, the vibration impact monitoring stated in Section 8.3.1 of the EM&A Manual (AEIAR-173/2013) is not applicable to Contract No. ED/2018/04.

Landscape and Visual Monitoring and Audit

- 3.12 The implementation of landscape and visual mitigation measures was checked during the environmental site inspections. Recommended follow-up actions have been discharged by the Contractor. Details of the audit findings and implementation status are presented in **Appendix F**.

Landfill Gas Monitoring

- 3.13 Since no excavation activity for this Project was carried out within the Sai Tso Wan Landfill Consultation Zone in this reporting quarter, therefore, no landfill gas monitoring was required.

Waste Management

- 3.14 Site audits were carried out on a weekly basis to monitor and ensures that proper storage, transportation and disposal practices of wastes generated from this Project include inert construction and demolition (C&D) materials, non-inert C&D materials. Details of waste management data is presented in **Appendix H**.

Fisheries

- 3.15 According to Section 7.1.3 of EM&A Manual (AEIAR-173/2013), no specific fisheries monitoring programme is required during the construction phase.

Influencing Factors on the Monitoring Results

- 3.16 During the reporting period, the major dust and noise source identified at the designated monitoring stations are as follows:

Table 3.2 Major Dust Sources during the Monitoring in the Reporting Period

Station	Major Dust Source
AM1 – Tin Hau Temple	Road Traffic at Cha Kwo Ling Road
AM2 – Sai Tso Wan Recreation Ground	Road Traffic along Sin Fat Road
AM3 – Yau Lai Estate Bik Lai House	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
AM4 - Sitting-out Area at Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road
AM4(B) - Cha Kwo Ling Public Cargo Working Area Administrative Office *	Road Traffic at Cha Kwo Ling Road

*: AM4(A) is not available for conducting monitoring due to the demolition of administrative office, the relocation of monitoring station from AM4(A) to AM4(B) has been approved by EPD on 11 July 2022.

Table 3.3 Major Noise Sources during the Monitoring in the Reporting Period

Monitoring Stations	Locations	Major Noise Source
CM1	Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
CM2	Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
CM3	Block S, Yau Lai Estate Phase 5, Yau Tong	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
CM4	Tin Hau Temple, Cha Kwo Ling	Road Traffic at Cha Kwo Ling Road
CM5	CCC Kei Faat Primary School, Yau Tong	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza

4. NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

Summary of Exceedances

- 4.1 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. A summary of exceedances is attached in **Appendix I**.

Air Quality

- 4.2 No Action Level exceedance was recorded in the reporting quarter. No Limit Level exceedance was recorded in the reporting quarter

Construction Noise

- 4.3 One (1) Action Level exceedance was recorded due to the documented complaint in the reporting quarter.
- 4.4 No Limit Level exceedance for construction noise monitoring was recorded in the reporting quarter.

Review of the Reasons for and the Implications of Non-compliance

- 4.5 During site audits in the reporting quarter, no non-compliance was recorded. Recommendations made in each individual site audit session were attached in the **Appendix F**.

Landscape and Visual

- 4.6 No non-compliance of the landscape and visual impact was recorded in the reporting quarter.

Summary of Environmental Complaints and Prosecutions

- 4.7 Two (2) environmental complaints on this Project were received in the reporting quarter.
- 4.8 No environmental warning, prosecution and notification of summons were received in the reporting quarter.

5. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

Review of Monitoring Methodology and the Practicality and Effectiveness of EM&A Programme

- 5.1 The EM&A methodology has been effective in monitoring the environmental impacts of the Project and the effectiveness of the mitigation measures. The data collected were useful in determining whether the Project had caused unacceptable impacts on the sensitive receivers. Analysis of all EM&A data collected throughout the baseline and the impact periods demonstrated the environmental acceptability of the Project

Effectiveness of Mitigation Measures

- 5.2 The mitigation measures recommended in the EIA report are considered effective in minimizing environmental impacts.
- 5.3 The Contractor has implemented the recommended mitigation measures except those mitigation measures not applicable at this stage.
- 5.4 Environmental monitoring works were performed in the reporting quarter and all monitoring results were checked and reviewed.
- 5.5 The summary record of non-compliance (exceedances) of Action/Limit Level for environmental monitoring in the reporting quarter has been presented in **Table I** above and in **Appendix I**.
- 5.6 Two (2) environmental complaints were received in the reporting quarter. The details were attached in the **Appendix J**.
- 5.7 No warning, notification of summon and environmental prosecution was received in the reporting quarter. The details were attached in the **Appendix J**.

Recommendations

- 5.8 Joint weekly site audits by the representatives of the Engineer, Contractor and the ET were conducted in the reporting quarter. The following recommendations was made to the Contractor for the coming reporting month:

Air quality:

- 3-sides barriers should be provided when conducting the cement mixing.
- Water spraying should be applied on the unpaved area.
- The valid NRMM label should be displayed on the PMEs.
- Cover cement bags with more than 20 bags per stack.

Noise:

- The noise barriers should be erected properly in the construction site.

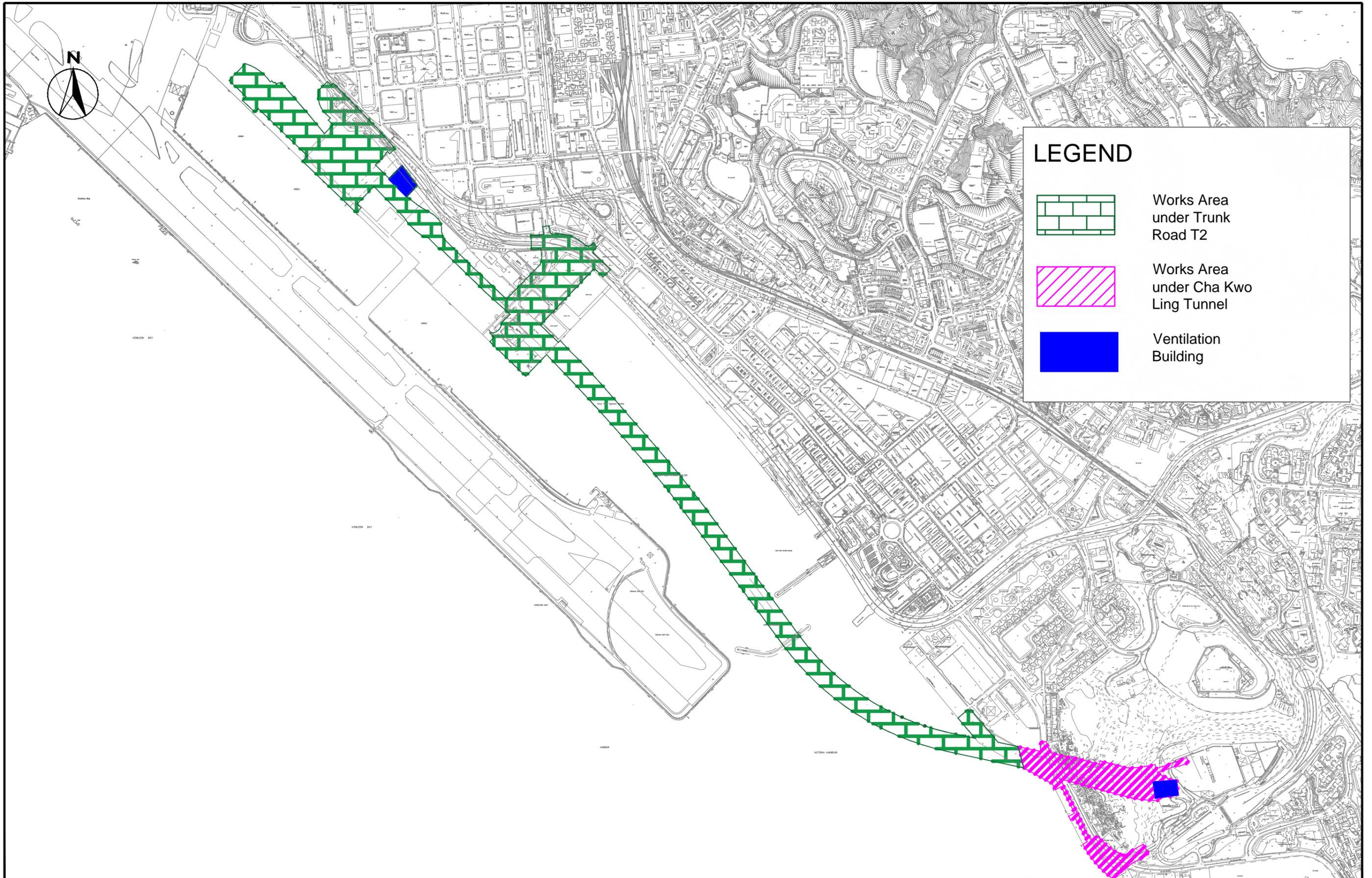
Water quality:

- The stagnant water should be removed regularly and avoid water ponding.

Waste / Chemical Management

- The drip tray should be provided for the chemical container to avoid the chemical leakage.
- The machinery should be checked and maintenance regularly to prevent the oil leakage.
- The site and surrounding should be kept tidy and litter free, remove the waste regularly.

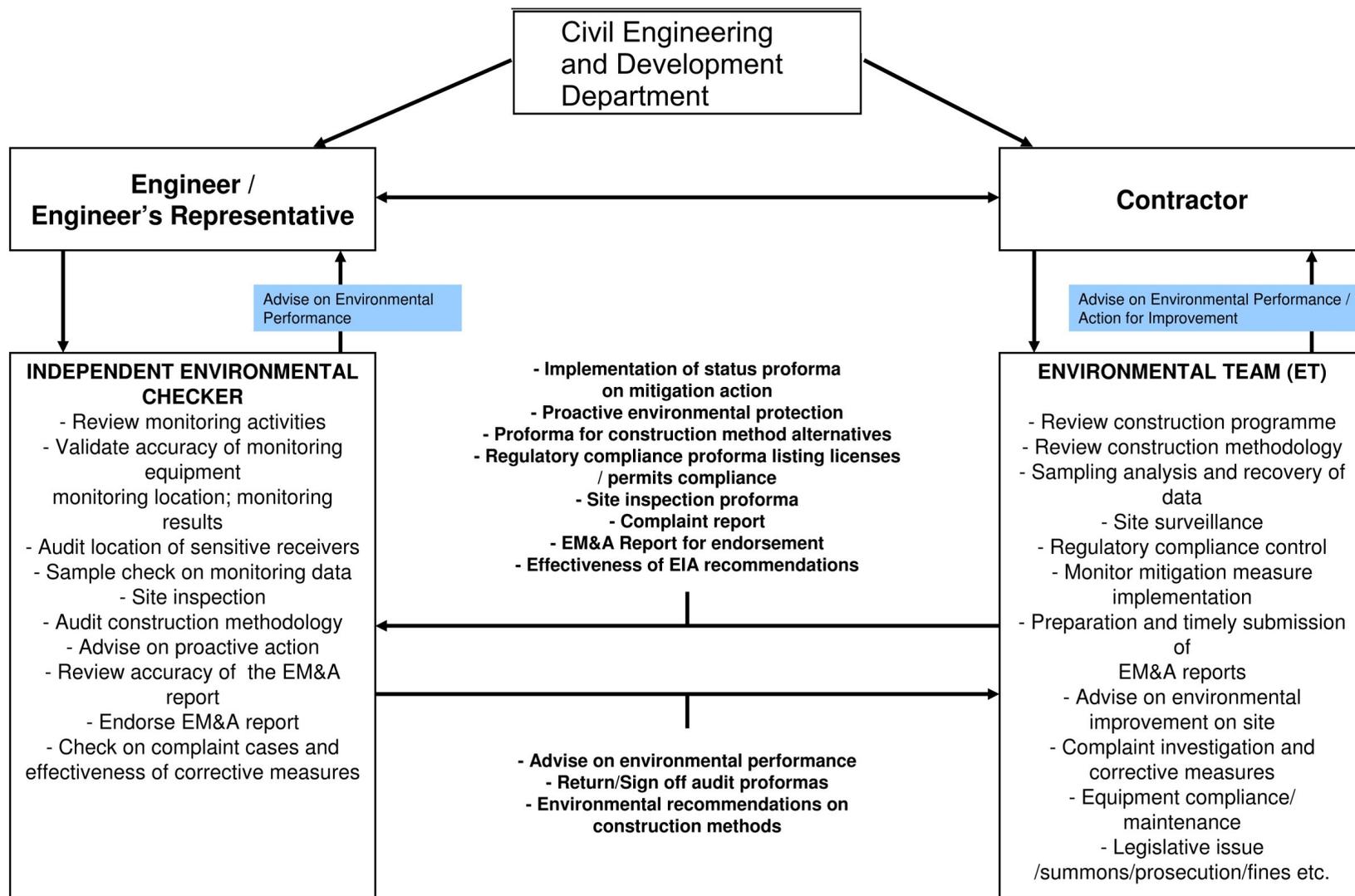
FIGURES



LEGEND

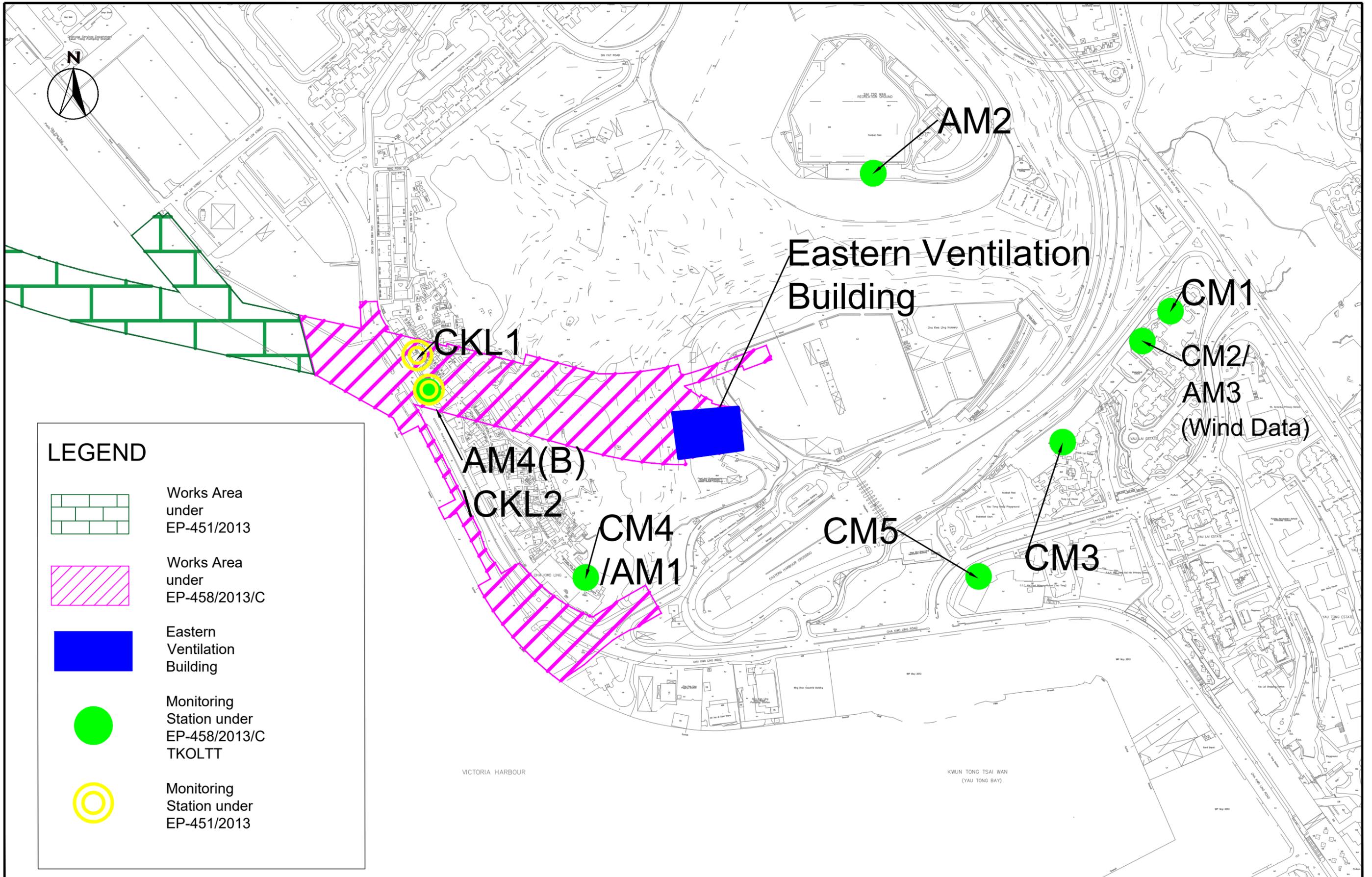
-  Works Area under Trunk Road T2
-  Works Area under Cha Kwo Ling Tunnel
-  Ventilation Building

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		REV	-

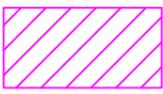


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Drawing title			Original Size	A3	Scale	N.T.S	Date	18/JAN/2013
PROJECT ORGANISATION AND LINES OF COMMUNICATION			© Copyright reserved		Drawing No.		FIGURE 1.2	
Rev.	Description	Date				Rev.		-



LEGEND

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

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

APPENDIX A
MONITORING REQUIREMENTS

Appendix A - Environmental Impact Monitoring Requirements

Table I – Air Quality Monitoring

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Air Quality	1 hour TSP	Three times / 6 days	<ul style="list-style-type: none"> • AM1 – Tin Hau Temple • AM2 – Sai Tso Wan Recreation Ground • AM3 – Yau Lai Estate Bik Lai House • AM4⁽¹⁾ – Sitting-out Area at Cha Kwo Ling Village • AM4(B)^{(2)(*)(**)} – Flat 103 Cha Kwo Ling Village 	<ul style="list-style-type: none"> • AM1 – Ground Level • AM2 – Ground Level • AM3 – Rooftop (41/F) • AM4⁽¹⁾ – Ground Level • AM4(B)^{(2)(**)} – Ground Level
	24 hour TSP	Once / 6 days		

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

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

(**)AM4(A) is not available for conducting monitoring due to the demolition of administrative office. EPD had been approved the relocation of monitoring station from AM4(A) to AM4(B).

Detail refer to E.S.8 of this report.

Table II – Noise Monitoring

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Construction Noise	L _{eq} , L ₉₀ & L ₁₀ at 30 minute intervals during 0700 to 1900 on normal weekdays	Once per week	<ul style="list-style-type: none"> • CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong • CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong • CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong • CM4 – Tin Hau Temple, Cha Kwo Ling • CM5 – CCC Kei Faat Primary School, Yau Tong 	<ul style="list-style-type: none"> • CM1 – Rooftop (41/F) • CM2 – Rooftop (41/F) • CM3 – Rooftop (40/F) • CM4 – Ground Level • CM5 – Rooftop (6/F)

Table III –Landfill Gas Monitoring

Type of Monitoring	Parameter	Frequency	Location
Landfill Gas	Methane, Carbon dioxide and Oxygen	at least daily before starting the work of the day	<ul style="list-style-type: none">• Excavation Locations• Manholes and Chambers• Relocation of monitoring wells• Any other Confined Spaces

APPENDIX B
ACTION AND LIMIT LEVELS

APPENDIX B – Action and Limit Levels**Air Quality*****1-hr TSP***

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

24-hr TSP

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

Noise

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

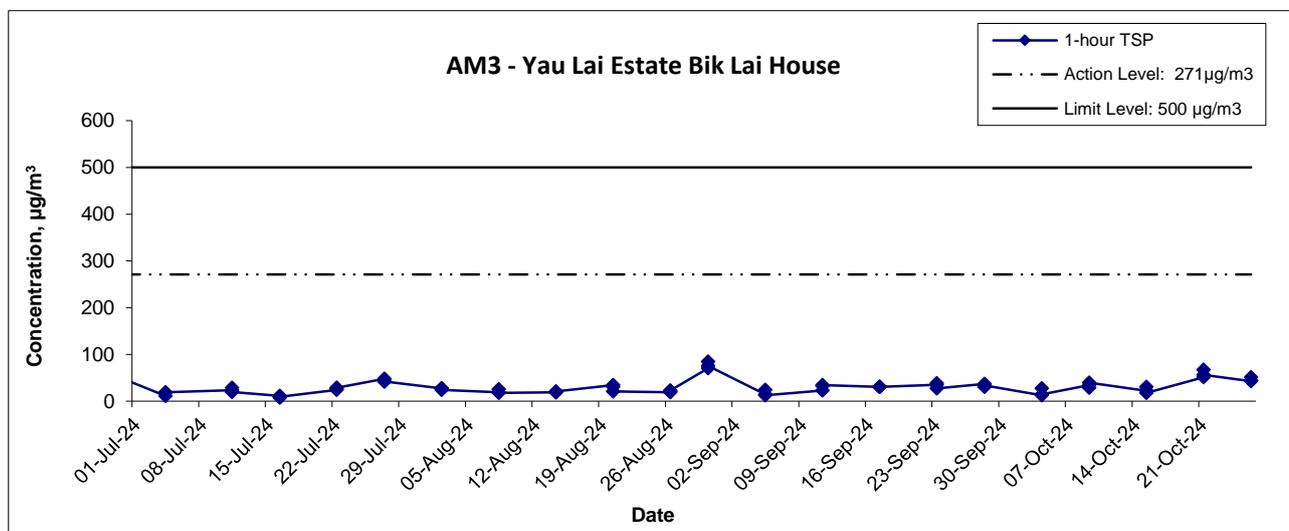
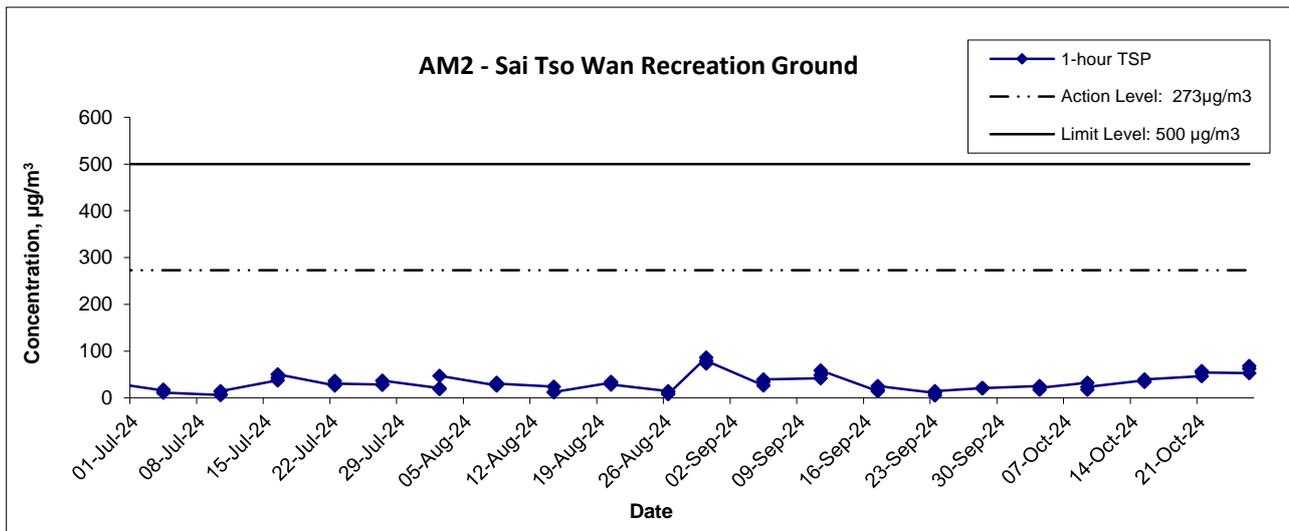
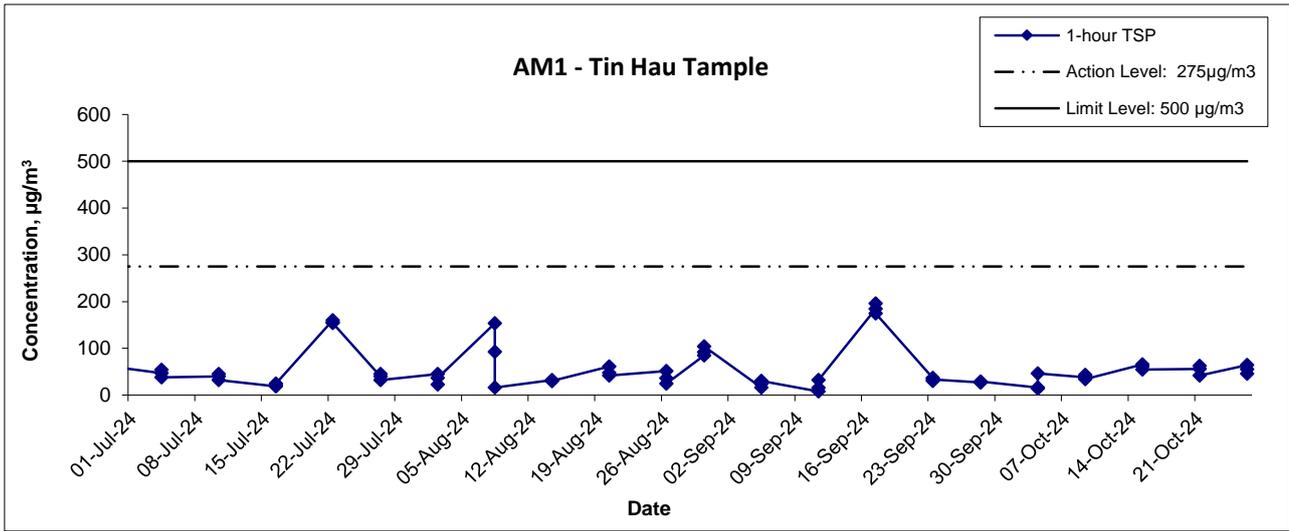
¹ 70 dB(A) for schools and 65 dB(A) for schools during examination period.

Landfill Gas Monitoring

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

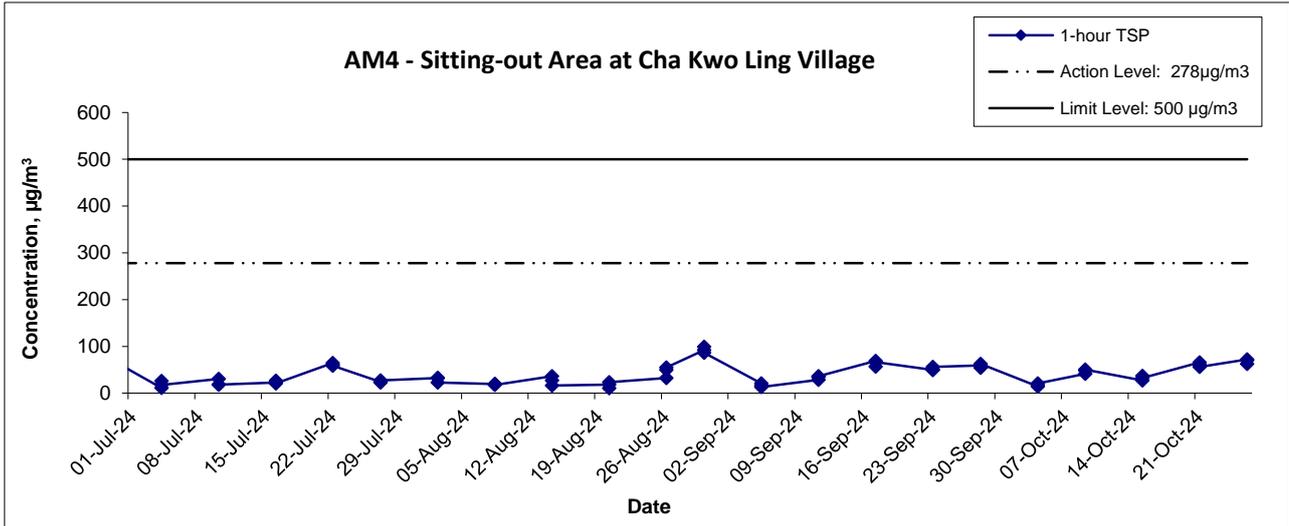
**APPENDIX C
GRAPHICAL PRESENTATION OF AIR
QUALITY MONITORING RESULTS**

1-hr TSP Concentration Levels



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

1-hr TSP Concentration Levels

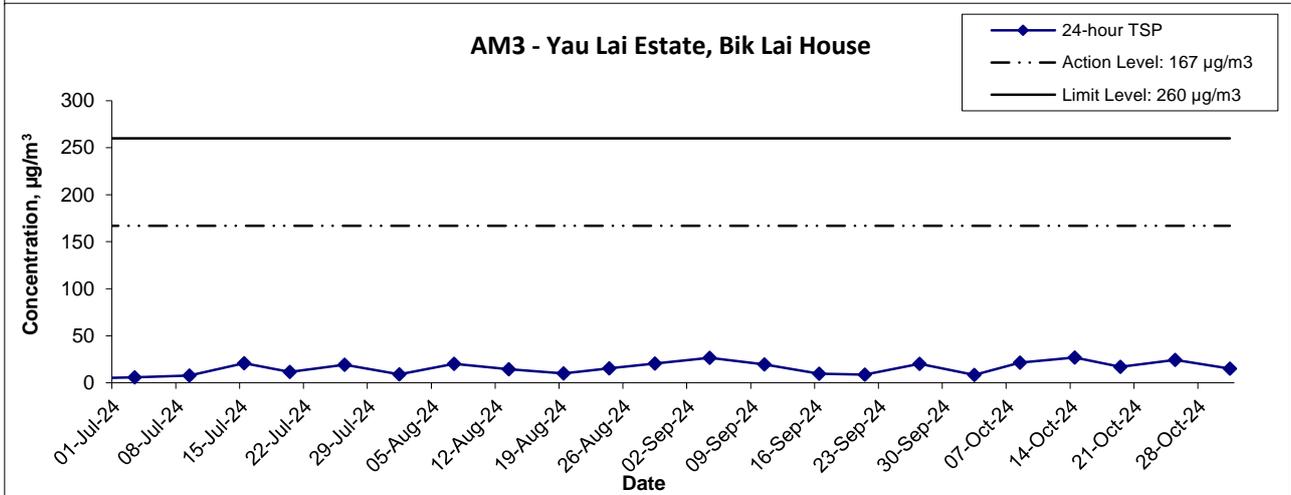
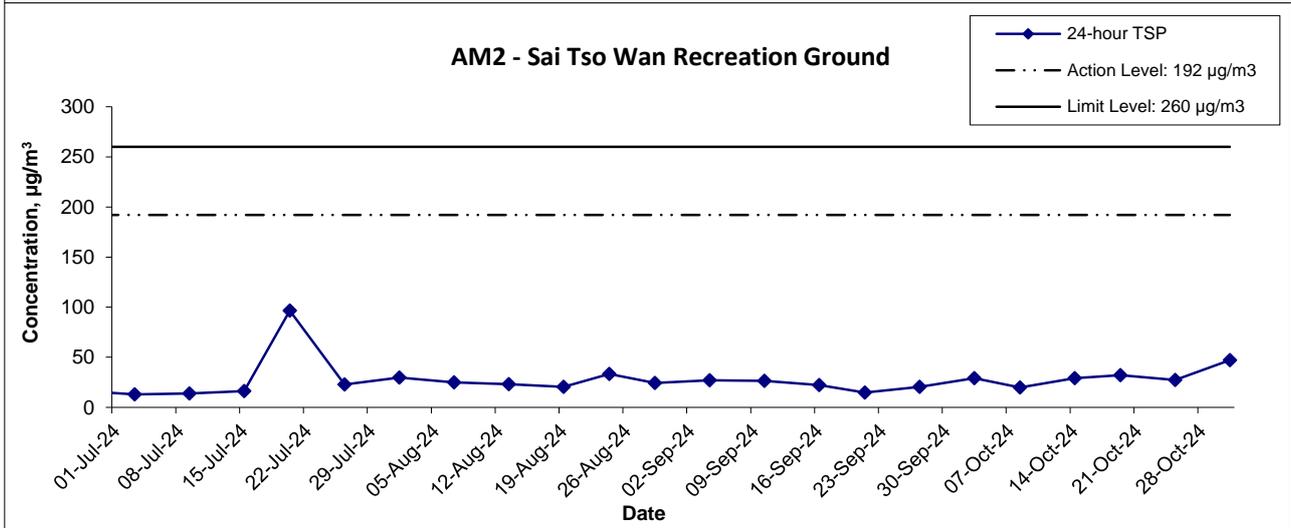
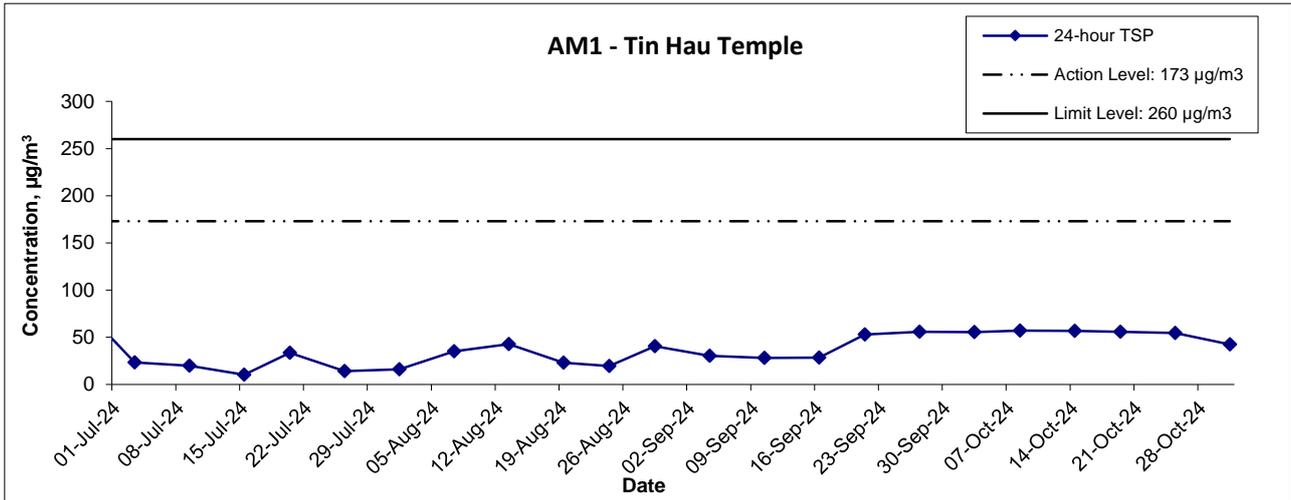


Notes:

1. The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
2. The weather conditions during the reporting month are presented in Appendix C.
3. Other factors which might affect the monitoring results are presented in Section 3.16.

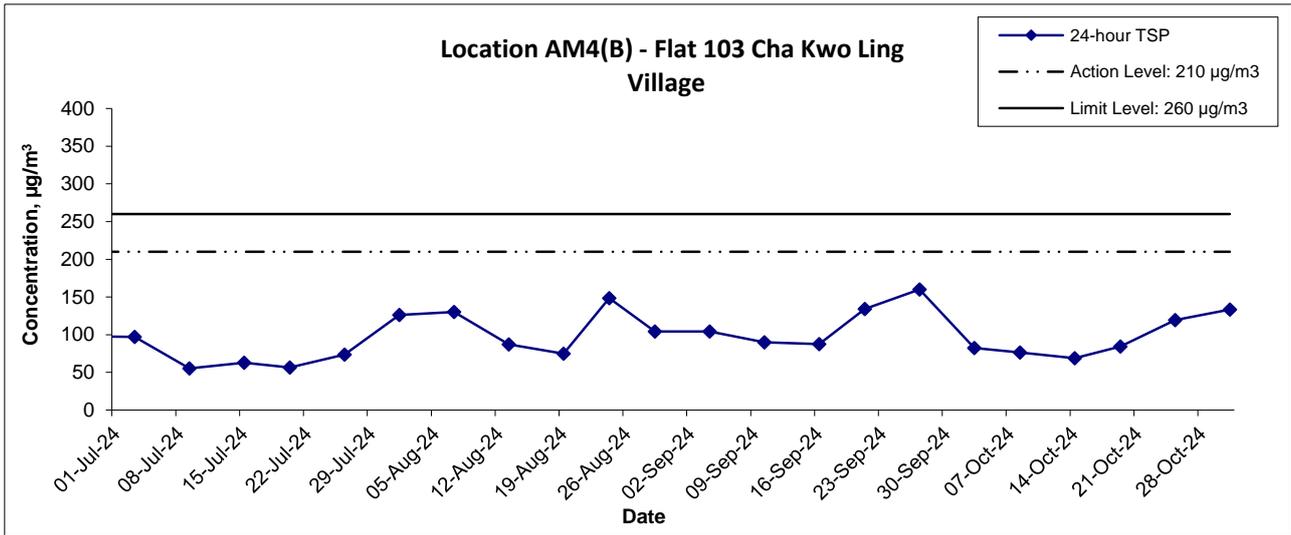
Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Scale N.T.S	Project No. MA20003	CINOTECH
Graphical Presentation of 1-hour TSP Monitoring Results	Date Oct-24	Appendix C	

24-hr TSP Concentration Levels



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

24-hr TSP Concentration Levels



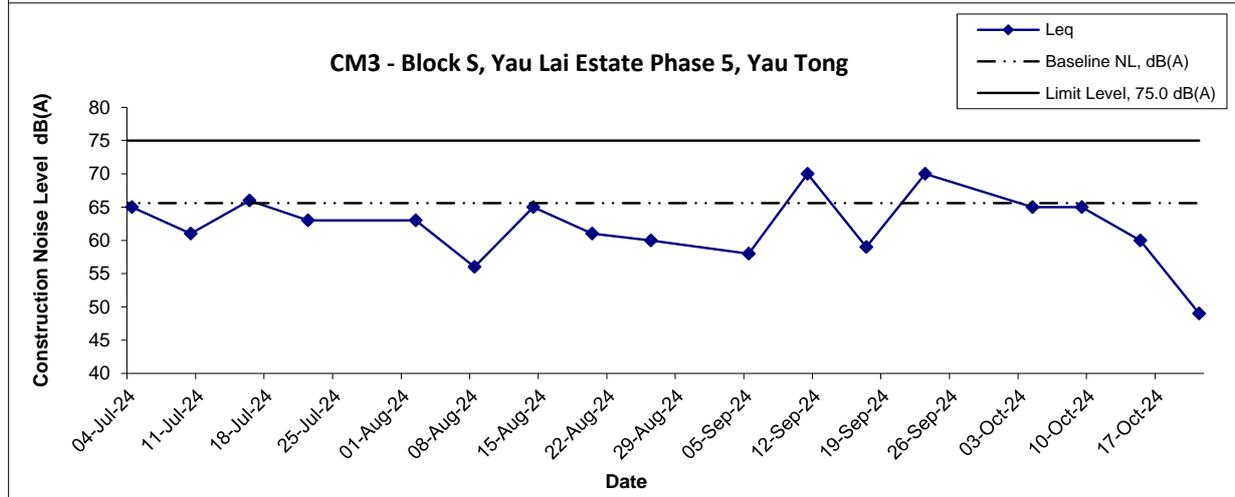
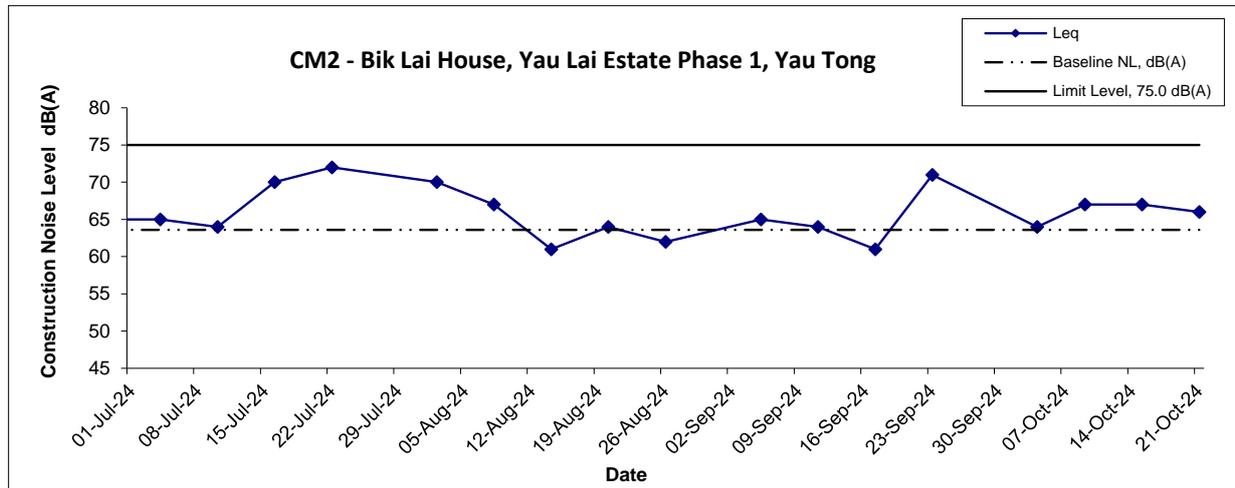
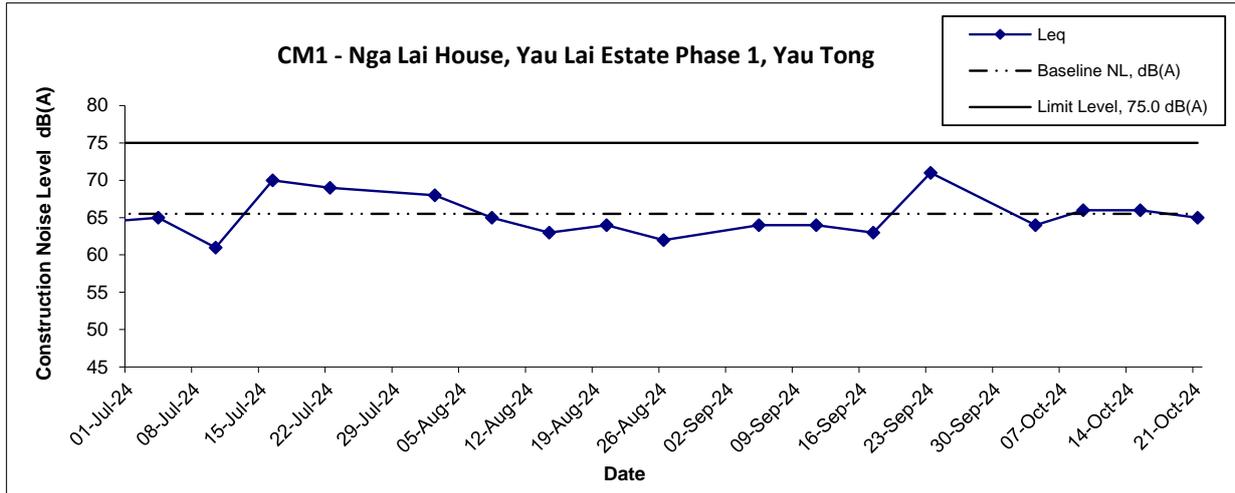
Notes:

- 1) The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
- 2) The weather conditions during the reporting month are presented in Appendix C.
- 3) Other factors which might affect the monitoring results are presented in Section 3.16.

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

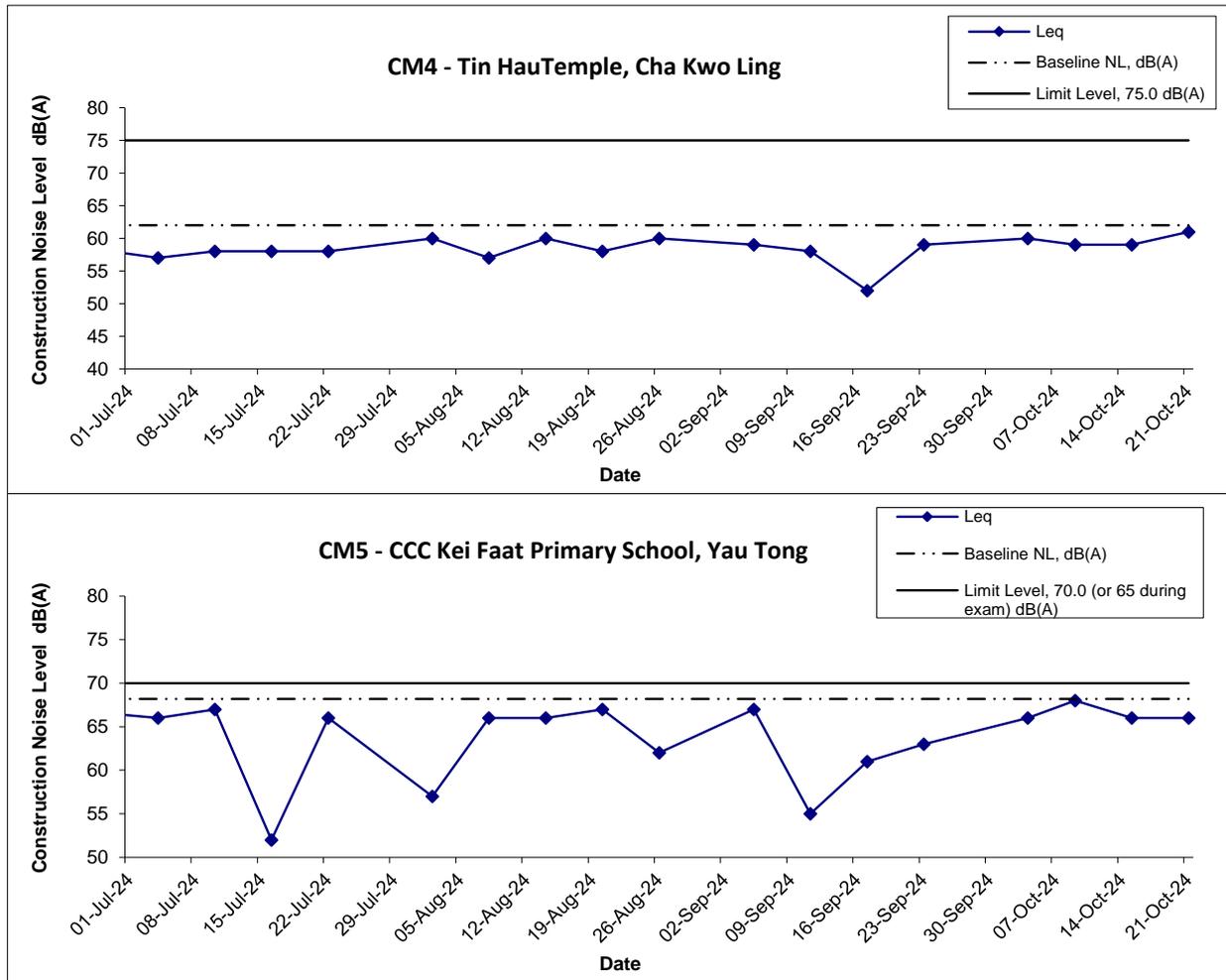
**APPENDIX D
GRAPHICAL PRESENTATION OF
NOISE MONITORING RESULTS**

Noise Levels



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

Noise Levels



Notes:

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

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

APPENDIX F
SITE AUDIT SUMMARY

Appendix F - Site Audit Summary

August 2024

Items	Date	Status*	Follow up Action
Water Quality			
--	--	--	--
Ecology			
--	--	--	--
Noise			
--	--	--	--
Landscape and Visual			
--	--	--	--
Air Quality			
Cement bags more than 20 per stack should be covered.	01 Aug 2024	✓	Item was rectified on 08 Aug 2024
Cement bags more than 20 per stack should be covered.	08 Aug 2024	✓	Item was rectified on 15 Aug 2024
Cement bags more than 20 per stack should be covered.	22 Aug 2024	✓	Item was rectified on 29 Aug 2024
Waste / Chemical Management			
Drip tray should be provided to chemical containers.	01 Aug 2024	✓	Item was rectified on 08 Aug 2024
Drip tray should be provided to chemical containers.	08 Aug 2024	✓	Item was rectified on 15 Aug 2024
Impact on Cultural Heritage			
--	--	--	--
Permits / Licenses			
--	--	--	--

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

**Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Quarterly EM&A Report**

Appendix F - Site Audit Summary

September 2024

Items	Date	Status*	Follow up Action
<i>Water Quality</i>			
--	--	--	--
<i>Ecology</i>			
--	--	--	--
<i>Noise</i>			
--	--	--	--
<i>Landscape and Visual</i>			
--	--	--	--
<i>Air Quality</i>			
Cement bags more than 20 per stack should be covered.	26 Sep 2024	✓	Item was rectified on 03 Oct 2024
<i>Waste / Chemical Management</i>			
--	--	--	--
<i>Impact on Cultural Heritage</i>			
--	--	--	--
<i>Permits / Licenses</i>			
--	--	--	--

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

Appendix F - Site Audit Summary

October 2024

Items	Date	Status*	Follow up Action
Water Quality			
--	--	--	--
Ecology			
--	--	--	--
Noise			
--	--	--	--
Landscape and Visual			
--	--	--	--
Air Quality			
Cement bags more than 20 per stack should be covered.	26 Sep 2024	✓	Item was rectified on 03 Oct 2024
Waste / Chemical Management			
Empty chemical containers should be removed timely.	03 Oct 2024	✓	Item was rectified on 10 Oct 2024
Impact on Cultural Heritage			
--	--	--	--
Permits / Licenses			
--	--	--	--

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

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

App G - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Table I - Recommended Mitigation Measures stipulated in EM&A Manual for the Project

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

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

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

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.5	It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.6	Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM-DSS

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

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.15	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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

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S5.8.29 - S5.8.31	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum. To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an online standby pump of adequate capacity and with automatic alternating devices. Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.32	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.33	Bentonite slurries used in diaphragm wall and borepile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.34	If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.35	Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.36	Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.37	Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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

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S6.8.4	<ul style="list-style-type: none"> • Hoarding or fencing should be erected around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase activities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works areas by site workers; • Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities 	Minimize noise, human and traffic disturbance to terrestrial habitat and wildlife; and reduce dust generation	Design Team / Contractor	Land-based works are	Construction Phase	N/A

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

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S6.8.9 S6.8.10	Measure to Control Water Quality Impact <ul style="list-style-type: none"> Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. Diverting of the site runoff to silt trap facilities before discharging into storm drain; Proper waste and dumping management; and Standard good-site practice for land-based construction. 	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	WQO
S6.8.11	Compensation for Vegetation Loss <ul style="list-style-type: none"> Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition. 	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A
Fisheries Impact						
S7.7.3	Measure to Control Water Quality Impact <ul style="list-style-type: none"> Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. 	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	WQO
Waste Management (Construction Phase)						
S8.6.3	Good Site Practices and Waste Reduction Measures <ul style="list-style-type: none"> Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; Training of site personnel in site cleanliness, proper waste management and chemical handling procedures; Provision of sufficient waste disposal points and regular collection of waste; Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. 	To reduce waste management impacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.4	Good Site Practices and Waste Reduction Measures (con't) <ul style="list-style-type: none"> Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste. 	To achieve waste reduction	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
	Good Site Practices and Waste Reduction Measures (con't)					

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S8.6.5	<p>The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.</p>	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005

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S8.6.6	<p>Good Site Practices and Waste Reduction Measures (con't)</p> <ul style="list-style-type: none"> C&D materials would be reused in the project and other local concurrent projects as far as possible. 	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.7	<p>Storage, Collection and Transportation of Waste</p> <p>Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include:</p> <ul style="list-style-type: none"> Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution; Maintain and clean storage areas routinely; Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and Different locations should be designated to stockpile each material to enhance reuse. 	To minimize potential adverse environmental impacts arising from waste storage	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.8/ Waste Management Plan	<p>Storage, Collection and Transportation of Waste (con't)</p> <ul style="list-style-type: none"> Remove waste in timely manner; Waste collectors should only collect wastes prescribed by their permits; Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers; Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and Maintain records of quantities of waste generated, recycled and disposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.9/ Waste Management Plan	<p>Storage, Collection and Transportation of Waste (con't)</p> <ul style="list-style-type: none"> Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010
S8.6.11 - S8.6.13/ Waste Management Plan	<p>Sorting of C&D Materials</p> <ul style="list-style-type: none"> Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site. Specific areas shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials. The C&D materials should at least be segregated into inert and non-inert materials, in which the inert portion could be reused and recycled in the reclamation as far as practicable before delivery to PFRFs. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfills 	To minimize potential adverse environmental	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005
	<p>Sediments (con't)</p> <ul style="list-style-type: none"> Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediments or cement stabilization of sediment. 					

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S8.6.17 – S8.6.20	<ul style="list-style-type: none"> • A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). • In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. • In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site. 	To determine the best handling and treatment of sediment	Contractor	All works areas with sediments concern	Construction Phase	ETWB TCW No. 19/2005

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

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S8.6.26/ Waste Management Plan	<ul style="list-style-type: none"> If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 	To ensure proper management of chemical waste	Contractor	All works sites	Construction Phase	<p>Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</p> <p>Waste Disposal (Chemical Waste) (General) Regulation</p>

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

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Table 10.8.1/ Landscape Mitigation Plan	CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	To minimize tree loss	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance and throughout construction period	ETWB TC 3/2006 and as per tree protection measures in Particular Specification

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

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

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

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S11.5.32	The hazards from landfill gas during the construction stage within the SA Tso Wan Landfill Consultation Zone should be minimized by suitable precautionary measures recommended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.	Protect the workers from landfill gas hazards	Contractor	Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note

Table II - Observation / Reminder / Non-compliance made during Site Audit (August 2024)

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

EIA Ref	Recommended Mitigation Measures	Details of Reminder/Observation	Recorded Date	Status
Air Quality				
S3.8.7	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.	More than 20 bags of cement should be covered by impervious material cover at EVB LG1/F.	1 Aug 2024	✓
S3.8.7	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.	More than 20 bags of cement should be covered by impervious cover at EVB LG1/F.	8 Aug 2024	✓
S3.8.7	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.	More than 20 bags of cement should be covered by impervious sheeting. (EBV LG1/F).	22 Aug 2024	✓
Construction Noise Impact				
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Water Quality Impact				
--	--	--		
Ecological Impact				
--	--	--		
Fisheries Impact				
--	--	--		
Waste Management				
S8.6.4	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	Drip tray should be provided to oil/chemical containers to prevent leakage at EVB Roof Floor.	1 Aug 2024	✓
S8.6.4	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	Drip tray should be provided to chemical/oil containers to prevent leakage at EVB Roof Floor.	8 Aug 2024	✓
Landscape and Visual Impact				
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Landfill Gas Hazards				
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Table II - Observation / Reminder / Non-compliance made during Site Audit (September 2024)

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

EIA Ref	Recommended Mitigation Measures	Details of Reminder/Observation	Recorded Date	Status
Air Quality				
S3.8.7	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.	The Contractor is reminded to cover the cement bags which is more than 20 bags per stack.	26 Sep 2024	#
Construction Noise Impact				
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Water Quality Impact				
--	--	--		
Ecological Impact				
--	--	--		
Fisheries Impact				
--	--	--		
Waste Management				
--	--	--		
Landscape and Visual Impact				
--	--	--		
Landfill Gas Hazards				
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Table II - Observation / Reminder / Non-compliance made during Site Audit (October 2024)

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

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



Name of Department: CEDD

Monthly Summary Waste Flow Table for 2024 (CKL)

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

Monthly Summary Waste Flow Table

Notes:

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

Monthly Summary Waste Flow Table For 2024 (CKL)

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

Notes:

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

**APPENDIX I
SUMMARY OF EXCEEDANCES**

Contract No. ED/2018/04

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

Appendix I – Summary of Exceedance

Reporting Quarter: August 2024 – October 2024

(A) Exceedance Report for Air Quality

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

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

(B) Exceedance Report for Construction Noise

One (1) Action Level exceedance was recorded due to the documented complaint in the reporting quarter.

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

(C) Exceedance Report for Landfill Gas

(NIL in the reporting quarter)

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

Contract No. ED/2018/04

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

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

Reporting Quarter: August 2024 – October 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Status
N14	Portion T1	11th September 2024	EPD received a complaint from a resident of Cha Kwo Ling Village regarding noise nuisance caused by the construction works of the T2 project on 11 September 2024. The complainant stated that noise nuisance was alleviated before but the noise recurred again which had affected her health.	<ul style="list-style-type: none">• No violation of the NMP was recorded as the numbers and types of PMEs operated during the period of complaint comply with the latest NMP.• The weekly noise monitoring and additional noise assessments have verified that the noise levels remain within the set limits. Moreover, the ground borne noise measurements data suggests that the noise levels are well within the criteria outlined in the TM.• The contractor has taken steps to address noise concerns by implementing noise control measures such as covering all the noisy operating PME/equipment with silencer and noise enclosure.• In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs.• The Contractor is recommended to strictly follow the conditions and requirements of the valid NMP and ensure the construction activities being taken were complied with the relevant NMP.	Closed

Contract No. ED/2018/04

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

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

L01	Portion Q1	03rd October 2024	EPD received complaint referred by CE office against the light nuisance and Dark Smoke from the barges berthed near Laguna City, Lam Tin. EPD's inspection on 17 Oct 2024 noticed some barges anchored outside the seafront of T2 construction site with their floodlights turned on. And this may be the source of the light nuisance complaint.	<ul style="list-style-type: none">• The night work operation is under valid permit, lighting at Portion Q1 area including all PME was turned off before 11pm.• Micro-Ringelmann Chart produced by the Marine Department was used to check the emission from the barge and no dark smoke is emitted when the barge is operating.• There was no direct evidence that any dark smoke was emitted while the barge is operating.• In addition, the Contractor should still maintain good site practices, such as turn off unnecessary lighting and adjust the angle of lighting to reduce light nuisance to public.• The Contractor is recommended to conduct regular maintenance for all Powered Mechanical Equipment to prevent dark smoke emission.	Closed
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Remarks: Two (2) environmental complaints were received in the reporting quarter.
No environmental warning/summon and prosecution were received in the reporting quarter.

**APPENDIX K
EVENT AND ACTION PLAN**

Event and Action Plan for Air Quality (Dust)

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

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

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
	<p>3. Repeat measurement to confirm findings;</p> <p>4. Increase monitoring frequency to daily;</p> <p>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</p> <p>6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</p> <p>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</p> <p>8. If exceedance stops, cease additional monitoring.</p>	<p>assure their effectiveness and advise the ER accordingly;</p> <p>3. Supervise the implementation of remedial measures.</p>	<p>remedial measures to be implemented;</p> <p>4. Ensure remedial measures properly implemented;</p> <p>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.</p>	<p>3. Implement the agreed proposals;</p> <p>4. Resubmit proposals if problem still not under control;</p> <p>5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.</p>

Event and Action Plan for Construction Noise

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

Limit Levels and Action Plan for Landfill Gas

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

APPENDIX L
CONSTRUCTION PROGRAMME

#	Activity Name	Dur	Start	Finish	2024											
					July				August				September			
					01	08	15	22	29	05	12	19	26	02	09	16
43	DG Licenses Inspection (Layout) by FSD	0		29-Jul-24					◆ DG Licenses Inspection (Layout) by FSD							
44	Issuance of Certificate from FSD	0		05-Aug-24					◆ Issuance of Certificate from FSD							
45	Water Supply	29	08-Jul-24	06-Aug-24												
46	FS Water (Inside WVB)	28	08-Jul-24	05-Aug-24												
47	Inspection for FS Water & Issuance of WW046 part V (a) by WSD	13	08-Jul-24	20-Jul-24					Inspection for FS Water & Issuance of WW046 part V (a) by WSD							
48	Pipe Sterilization & Water Sampling	7	22-Jul-24	27-Jul-24					Pipe Sterilization & Water Sampling							
49	Water Sample Testing	3	29-Jul-24	31-Jul-24					Water Sample Testing							
50	Issuance of WW046 Part V(b) from WSD	0		31-Jul-24					◆ Issuance of WW046 Part V(b) from WSD							
51	Issuance of WWO1005 Certificate for FS Water from WSD	0		05-Aug-24					◆ Issuance of WWO1005 Certificate for FS Water from WSD							
52	Connect pipe inside WVB to Master Meter Cabinet	4	01-Aug-24	05-Aug-24					Connect pipe inside WVB to Master Meter Cabinet							
53	FS Lead-in Watermain	23	13-Jul-24	06-Aug-24												
54	Inspection for FS Lead-in watermain & issuance of WW046 part V (a) by WSD	13	13-Jul-24	26-Jul-24					Inspection for FS Lead-in watermain & issuance of WW046 part V (a) by WSD							
55	Pipe Sterilization & Water Sampling	7	27-Jul-24	02-Aug-24					Pipe Sterilization & Water Sampling							
56	Issuance of WW046 Part V(b) from WSD	0		06-Aug-24					◆ Issuance of WW046 Part V(b) from WSD							
57	Water Sample Testing	3	03-Aug-24	06-Aug-24					Water Sample Testing							
58	Final T&C and FSI Inspection	69	08-Jul-24	17-Sep-24												
59	Submit Application Form (FS501)	0		06-Aug-24					◆ Submit Application Form (FS501)							
60	WVB - Overall T&C	29	08-Jul-24	06-Aug-24					WVB - Overall T&C							
61	FSI Acceptance Inspection	27	21-Aug-24	17-Sep-24					FSI Acceptance Inspection							
62	Issuance of FS Certificate	0		17-Sep-24					◆ Issuance of FS Certificate							
63	SUB-SEA TUNNEL CROSS PASSAGE [CP]	31	27-Jul-24	28-Aug-24												
64	Tympanum Civil Works	31	27-Jul-24	28-Aug-24												
65	Westbound	31	27-Jul-24	28-Aug-24												
66	CP25 - WB - Tympanum Civil works CH8499	31	27-Jul-24	28-Aug-24					CP25 - WB - Tympanum Civil works CH8499							
67	INTERNAL STRUCTURES	42	19-Jul-24	31-Aug-24												
68	Thermal Barrier	42	19-Jul-24	31-Aug-24												
69	Road Level	42	19-Jul-24	31-Aug-24												
70	Eastbound	42	19-Jul-24	31-Aug-24												
71	NCPS	42	19-Jul-24	31-Aug-24												
72	EB NCP Fire Board up to CP16 @ 13.2m/d	42	19-Jul-24	31-Aug-24					EB NCP Fire Board up to CP16 @ 13.2m/d							
73	CHA KWO LING TUNNEL	56	02-Jul-24	28-Aug-24												
74	Eastbound	20	29-Jul-24	17-Aug-24												
75	Type C OHVD	20	29-Jul-24	17-Aug-24												
76	EB Type C1 & 2 OHVD slab fwks assembly	20	29-Jul-24	17-Aug-24					EB Type C1 & 2 OHVD slab fwks assembly							
77	CKL Internal Structures	56	02-Jul-24	28-Aug-24												
78	Fire Board - Crown (TBC)	27	02-Jul-24	29-Jul-24												
79	WB Type A Fire Board (to be deleted)	27	02-Jul-24	29-Jul-24					WB Type A Fire Board (to be deleted)							
80	Fire Board - Road Level (TBC)	56	02-Jul-24	28-Aug-24												
81	Branch Tunnel Fire Board (to be deleted)	24	02-Jul-24*	26-Jul-24					Branch Tunnel Fire Board (to be deleted)							
82	WB Type A Fire Board (to be deleted)	24	27-Jul-24	21-Aug-24					WB Type A Fire Board (to be deleted)							
83	EB Type A Fire Board (to be deleted)	24	03-Aug-24	28-Aug-24					EB Type A Fire Board (to be deleted)							
84	EAST VENTILATION BUILDING [EVB]	78	02-Jul-24	23-Sep-24												

- ◆ Milestones
- Planned Bar
- Critical Bar

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

Three Months Rolling Programme (Jul24 - Sep24)



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

#	Activity Name	Dur	Start	Finish	2024											
					July					August				September		
					01	08	15	22	29	05	12	19	26	02	09	16
85	EVB Construction	77	02-Jul-24	20-Sep-24												
86	E&M	72	02-Jul-24	14-Sep-24												
87	EVB - E&M works (LG1)	72	02-Jul-24	14-Sep-24	EVB - E&M works (LG1)											
88	Footbridge FB03	73	05-Jul-24	20-Sep-24												
89	Installation of Structural Frames	33	05-Jul-24	08-Aug-24	Installation of Structural Frames											
90	Bridge Deck Construction + Bearing Installation	40	09-Aug-24	20-Sep-24	Bridge Deck Construction											
91	Essential Criteria for FSI	78	02-Jul-24	23-Sep-24												
92	Power Enderization	20	29-Aug-24	19-Sep-24												
93	CLP Rm - ABWF works	20	29-Aug-24	19-Sep-24	CLP Rm - ABWF works											
94	Dangerous Goods Licenses	20	29-Aug-24	19-Sep-24												
95	Fuel Tank Room - ABWF works	20	29-Aug-24	19-Sep-24	Fuel Tank Room - ABWF works											
96	Water Supply	78	02-Jul-24	23-Sep-24												
97	FS Lead-in Watermain	78	02-Jul-24	23-Sep-24												
98	External Watermain (TBC)	53	02-Jul-24*	27-Aug-24	External Watermain (TBC)											
99	Submission WW046 Part IV for water connection	0		27-Aug-24	Submission WW046 Part IV for water connection											
100	Inspection for FS Lead-in watermain & issuance of WW046 part V(a)	13	07-Sep-24	23-Sep-24	Inspection for FS Lead-in watermain & issuance of WW046 part V(a)											
101	E&M INSTALLATION	84	02-Jul-24	28-Sep-24												
102	E&M	84	02-Jul-24	28-Sep-24												
103	1st section CH6703-7109 - (406m) WB CPS & NCPS + EB CPS	69	11-Jul-24	21-Sep-24												
104	E&M Installation (BYME)	69	11-Jul-24	21-Sep-24												
105	CP side	38	11-Jul-24	19-Aug-24												
106	2nd Fixing	38	11-Jul-24	19-Aug-24												
107	Cable Fixing - CPS	27	11-Jul-24	07-Aug-24	Cable Fixing - CPS											
108	Cable Joint works - CPS	22	27-Jul-24	19-Aug-24	Cable Joint works - CPS											
109	OHVD Soffit	42	08-Aug-24	21-Sep-24												
110	2nd Fixing	42	08-Aug-24	21-Sep-24												
111	Tunnel Damper Wiring Works - OHVD	33	08-Aug-24	11-Sep-24	Tunnel Damper Wiring Works - OHVD											
112	Final Circuit Installation - OHVD	27	24-Aug-24	21-Sep-24	Final Circuit Installation - OHVD											
113	Non CP side	64	11-Jul-24	16-Sep-24												
114	2nd Fixing	64	11-Jul-24	16-Sep-24												
115	Cable Laying - NCPS	11	11-Jul-24	22-Jul-24	Cable Laying - NCPS											
116	Cable Fixing - NCPS	16	23-Jul-24	07-Aug-24	Cable Fixing - NCPS											
117	Smartone / CSL / GOFs by others	27	08-Aug-24	04-Sep-24	Smartone / CSL / GOFs by others											
118	Cable Joint works - NCPS	22	24-Aug-24	16-Sep-24	Cable Joint works - NCPS											
119	2nd section CH7109-7607 - (498m) WB CPS & NCPS + EB CPS	84	02-Jul-24	28-Sep-24												
120	E&M Installation (BYME)	78	02-Jul-24	21-Sep-24												
121	CP side	22	27-Jul-24	19-Aug-24												
122	2nd Fixing	22	27-Jul-24	19-Aug-24												
123	Cable Joint works - CPS	22	27-Jul-24	19-Aug-24	Cable Joint works - CPS											
124	OHVD Soffit	76	02-Jul-24	19-Sep-24												
125	1st Fixing	33	02-Jul-24	05-Aug-24												
126	Linear Heat Detection Cable bracket, Containment Installation - OHVD	33	02-Jul-24*	05-Aug-24	Linear Heat Detection Cable bracket, Containment Installation - OHVD											

- ◆ Milestones
- ▬ Planned Bar
- ▬ Critical Bar

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

Three Months Rolling Programme (Jul24 - Sep24)



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

#	Activity Name	Dur	Start	Finish	2024													
					July					August				September				
					01	08	15	22	29	05	12	19	26	02	09	16	23	30
127	2nd Fixing	42	06-Aug-24	19-Sep-24														
128	Tunnel Damper Wiring Works - OHVD	33	06-Aug-24	09-Sep-24														
129	Final Circuit Installation - OHVD	27	22-Aug-24	19-Sep-24														
130	Non CP side	58	23-Jul-24	21-Sep-24														
131	2nd Fixing	58	23-Jul-24	21-Sep-24														
132	Cable Laying - NCPS	11	23-Jul-24	02-Aug-24														
133	Cable Fixing - NCPS	16	08-Aug-24	23-Aug-24														
134	Cable Joint works - NCPS	22	24-Aug-24	16-Sep-24														
135	Smartone / CSL / GOFS by others	27	24-Aug-24	21-Sep-24														
136	TCSS (Gtech)	60	27-Jul-24	28-Sep-24														
137	OHVD Soffit	53	27-Jul-24	21-Sep-24														
138	TCSS installation OHVD soffit	53	27-Jul-24	21-Sep-24														
139	NCPS	53	03-Aug-24	28-Sep-24														
140	TCSS installation OHVD NCPS	53	03-Aug-24	28-Sep-24														
141	3rd section CH7607-8107 - (500m) WB CPS & NCPS + EB CPS	82	04-Jul-24	28-Sep-24														
142	E&M Installation (BYME)	76	11-Jul-24	28-Sep-24														
143	CP side	49	11-Jul-24	30-Aug-24														
144	2nd Fixing	49	11-Jul-24	30-Aug-24														
145	Cable Fixing - CPS	27	11-Jul-24	07-Aug-24														
146	Cable Joint works - CPS	22	08-Aug-24	30-Aug-24														
147	OHVD Soffit	42	08-Aug-24	21-Sep-24														
148	2nd Fixing	42	08-Aug-24	21-Sep-24														
149	Tunnel Damper Wiring Works - OHVD	33	08-Aug-24	11-Sep-24														
150	Final Circuit Installation - OHVD	27	24-Aug-24	21-Sep-24														
151	Non CP side	53	03-Aug-24	28-Sep-24														
152	2nd Fixing	53	03-Aug-24	28-Sep-24														
153	Cable Laying - NCPS	11	03-Aug-24	14-Aug-24														
154	Cable Fixing - NCPS	16	15-Aug-24	30-Aug-24														
155	Smartone / CSL / GOFS by others	27	31-Aug-24	28-Sep-24														
156	TCSS (Gtech)	60	04-Jul-24	04-Sep-24														
157	CPS	53	11-Jul-24	04-Sep-24														
158	TCSS installation CPS	53	11-Jul-24	04-Sep-24														
159	OHVD Soffit	53	04-Jul-24	28-Aug-24														
160	TCSS installation OHVD soffit	53	04-Jul-24	28-Aug-24														
161	Sub-sea Eastbound NCPS	53	19-Jul-24	12-Sep-24														
162	1st section CH6703-7109 - (406m)	53	19-Jul-24	12-Sep-24														
163	E&M Installation (BYME)	53	19-Jul-24	12-Sep-24														
164	Non CP side	53	19-Jul-24	12-Sep-24														
165	1st Fixing	27	19-Jul-24	15-Aug-24														
166	E&M Bracket	27	19-Jul-24	15-Aug-24														
167	2nd Fixing	27	16-Aug-24	12-Sep-24														
168	Cable Laying - NCPS	11	16-Aug-24	27-Aug-24														

- ◆ Milestones
- ▬ Planned Bar
- ▬ Critical Bar

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

Three Months Rolling Programme (Jul24 - Sep24)



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

Activity ID	Activity Name	Dur	Start	Finish	2024		
					Aug	Sep	Oct
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 Ventilation 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		EVB - ABWF	
A229446640	WVB - Statutory Inspection	92	02-Jun-24*	01-Sep-24		WVB - Statutory Inspection	
A229447200	EVB - E&M	92	02-Jun-24*	01-Sep-24		EVB - E&M	
A229446641	WVB - FSI	7	02-Sep-24	08-Sep-24		WVB - FSI	
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 waterproofing & Mass Fill	27	10-Jul-24	06-Aug-24		WVB - Basement 1 waterproofing & Mass Fill	
A229449810	WVB - Strut S1 Removal	27	07-Aug-24	03-Sep-24		WVB - Strut S1 Removal	
A229449790	WVB - Basement 1 wall part 2 + Ground Floor Slab	50	14-Aug-24	07-Oct-24		WVB - Basement 1 wall part 2 + Ground Floor Slab	
02 AtGrade 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		AGR - WB Drainage & Gully Installation	
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		EB SUS - Skin Wall - Crown Level Bay 5	
A229448440	EB SUS - Skin Wall - Crown Level Bay 6	8	17-Aug-24	24-Aug-24		EB SUS - Skin Wall - Crown Level Bay 6	
A229448450	EB SUS - Skin Wall - Crown Level Bay 7	8	25-Aug-24	01-Sep-24		EB SUS - Skin Wall - Crown Level Bay 7	
A229448460	EB SUS - Skin Wall - Crown Level Bay 8	8	02-Sep-24	09-Sep-24		EB SUS - Skin Wall - Crown Level Bay 8	
A229448470	EB SUS - Skin Wall - Crown Level Bay 9	8	10-Sep-24	17-Sep-24		EB SUS - Skin Wall - Crown Level Bay 9	
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		EB SUS - Skin Wall - Road Level Bay 22	
A229447951	EB SUS - Skin Wall - Road Level Bay 9	15	26-Jul-24*	09-Aug-24		EB SUS - Skin Wall - Road Level Bay 9	
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		WB SUS - Skin Wall - Road Level Bay 18	
A229448280	WB SUS - Skin Wall - Road Level Bay 19	9	05-Aug-24	13-Aug-24		WB SUS - Skin Wall - Road Level Bay 19	
A229448290	WB SUS - Skin Wall - Road Level Bay 20	9	14-Aug-24	22-Aug-24		WB SUS - Skin Wall - Road Level Bay 20	
A229448300	WB SUS - Skin Wall - Road Level Bay 21	9	23-Aug-24	31-Aug-24		WB SUS - Skin Wall - Road Level Bay 21	
A229448490	WB SUS - Skin Wall Inspection and handover to IS Team	12	01-Sep-24	12-Sep-24		WB SUS - Skin Wall Inspection and handover to IS Team	
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

Activity ID	Activity Name	Dur	Start	Finish	2024		
					Aug	Sep	Oct
A8920	SUS - EB - Fire Board - Road Level NCPS remaining	24	10-Aug-24	04-Sep-24	SUS - EB - Fire Board - Road Level NCPS remaining		
A229448480	SUS - EB - Fire Board - Road Level CPS remaining	81	02-Jul-24*	25-Sep-24	SUS - EB - Fire Board - Road Level CPS remaining		
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	EB SUS - E&M brackets CPS		
A229446330	EB SUS - E&M brackets NCPS	21	01-Oct-24*	21-Oct-24	EB SUS - E&M brackets		
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	SUS - WB - Fire Board - Road Level NCPS rema		
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	C&C EB OHVD - Pour 2 (6m)		
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	LS - EB Top slab Pour 3		
A229448560	LS - WB Top slab Pour 3	118	07-May-24 A	01-Sep-24	LS - WB Top slab Pour 3		
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	Late Stitch/C&C - OHVD Slab + ARL Walls (72m3)		
LSCC10280	Late Stitch/C&C - Above RL headwall (16m3)	10	22-Sep-24	01-Oct-24	Late Stitch/C&C - Above RL headwall (16m3)		
LSCC10290	Late Stitch/C&C - Roof Slab (135m3) + falsework removal	22	02-Oct-24	23-Oct-24	Late Stitch/C&C - Roof Slab (135m3) + falsework removal		
LSCC10291	Late Stitch/C&C - Massfill breaking	7	24-Oct-24	30-Oct-24	Late Stitch/C&C - Massfill breaking		
LSCC10330	Late Stitch/C&C - Base Slab to Road Slab (NCPS)	14	31-Oct-24	13-Nov-24	Late Stitch/C&C - Base Slab to Road Slab (NCPS)		
Late Stitch/TSS		124	01-Jul-24	01-Nov-24			
LSCC10170	Late Stitch/TSS - WB OHVD Slab	39	01-Jul-24*	08-Aug-24	Late Stitch/TSS - WB OHVD Slab		
LSCC10260	Late Stitch/TSS - Above RL headwall (63m3)	28	09-Aug-24	05-Sep-24	Late Stitch/TSS - Above RL headwall (63m3)		
LSCC10261	Falsework removal	7	06-Sep-24	12-Sep-24	Falsework removal		
LSCC10271	Erection Temporary steel deck	14	13-Sep-24	26-Sep-24	Erection Temporary steel deck		
LSCC10300	Late Stitch/TSS - BRL slab - Drilling & exposing coupler (1200nos)	12	27-Sep-24	08-Oct-24	Late Stitch/TSS - BRL slab - Drilling & exposing coup		
LSCC10310	Late Stitch/TSS - BRL slab - Rebar fixing	12	09-Oct-24	20-Oct-24	Late Stitch/TSS - BRL slab - Rebar fixing		
LSCC10320	Late Stitch/TSS - BRL slab - Curved formwork	12	21-Oct-24	01-Nov-24	Late Stitch/TSS - BRL slab - Curved formwork		
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	Temporary cable procurement 4mth lead time (TBC)		
05 RC works at MMEP 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	Stage 1 - Narrow the opening to 3.5m*2m RC works		
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	Stage 1 backfilling (from -15.0mPD		
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	EB TBM stop		
CP26-30		69	16-Sep-24	23-Nov-24			
EBTBM1260	EB TBM Tunnelling CH8632-8675 (Seawall section)	26	16-Sep-24	11-Oct-24	EB TBM Tunnelling CH8632-8675 (Seawall se		
EBTBM1270	EB TBM Tunnelling CH8675-8748 (Seawall section)	43	12-Oct-24	23-Nov-24	EB TBM Tunnelling CH8675-8748 (Seawall section)		

- ◆ Milestones
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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
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Activity ID	Activity Name	Dur	Start	Finish	2024		
					Aug	Sep	Oct
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	WB TBM Tunnelling CH8675-8776 (Seawall section)		
A229444330	WB TBM Tunnelling CH8776-8875 (Pilot tunnel section)	38	19-Sep-24	26-Oct-24	WB TBM Tunnelling CH8776-8875 (Pilot tunnel section)		
A229445930	WB TBM Tunnelling CH8854-8975 (Pilot tunnel section)	39	27-Oct-24	04-Dec-24	WB TBM Tunnelling CH8854-8975 (Pilot tunnel section)		
Tunnel Civil Works (TCW) before TBM breakthrough		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	TSS - EB NCPS Wall Pipe Relocation from CP21 to CP22		
A229447670	TSS - EB NCPS Wall Pipe Relocation from CP22 to CP23	7	08-Sep-24	14-Sep-24	TSS - EB NCPS Wall Pipe Relocation from CP22 to CP23		
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	EB TSS - ISIG Stoppage at CH8446		
A229428552	EB TSS - Service Gallery up to CP 25	14	14-Oct-24	28-Oct-24	EB TSS - Service Gallery up to CP 25		
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	EB TSS - MIMEP module installation up to CP11		
A229444690	EB TSS - MIMEP module installation up to CP24	56	03-Jun-24	05-Aug-24	EB TSS - MIMEP module installation up to CP24		
OHVD		203	28-Jan-24 A	17-Aug-24			
A229441810	EB TSS - ISSG stoppage at CP22	187	28-Jan-24 A	02-Aug-24	EB TSS - ISSG stoppage at CP22		
A229441820	EB TSS - ISSG up to CP23	6	02-Aug-24	07-Aug-24	EB TSS - ISSG up to CP23		
A229447560	EB TSS - ISSG dismantling for relocation to WB	10	08-Aug-24	17-Aug-24	EB TSS - ISSG dismantling for relocation to WB		
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	EB TSS - Fire Board - Wall NCPS up to CP22		
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	EB TSS - Road Barrier NCPS from CP19 to CP20		
TC10130	EB TSS - Road Barrier NCPS from CP20 to CP21	8	03-Aug-24	10-Aug-24	EB TSS - Road Barrier NCPS from CP20 to CP21		
TC10140	EB TSS - Road Barrier NCPS from CP21 to CP22	8	08-Sep-24	15-Sep-24	EB TSS - Road Barrier NCPS from CP21 to CP22		
TC10150	EB TSS - Road Barrier NCPS from CP22 to CP23	8	16-Sep-24	23-Sep-24	EB TSS - Road Barrier NCPS from CP22 to CP23		
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	EB TSS - E&M Brackets NCPS up to CP22		
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	EB TSS - TCSS Provision up to CP26		
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	WB TSS - Service Gallery up to CP 26		
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	WB TSS - Service Gallery up to CP 27		
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	WB TSS - Corbel Structure & Curing up to CP25		
A229415232	WB TSS - Corbel Structure & Curing up to CP26	15	26-Oct-24	13-Nov-24	WB TSS - Corbel Structure & Curing up to CP26		
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	WB - ISSG Transfer & Reassembly from EB		
TC3170	WB TSS - OHVD up to CP23	4	08-Sep-24	11-Sep-24	WB TSS - OHVD up to CP23		
TC3160	WB TSS - OHVD up to CP24	4	12-Sep-24	16-Sep-24	WB TSS - OHVD up to CP24		
TC3120	WB TSS - OHVD up to CP25	4	20-Sep-24	24-Sep-24	WB TSS - OHVD up to CP25		
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	Aerial Platform re-assembly and WB Tunnel		

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ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron
Three Months Rolling Programme (Aug24 - Oct24)

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Activity ID	Activity Name	Dur	Start	Finish	2024		
					Aug	Sep	Oct
D12435	WB TSS - Fire board - Tunnel Crown up to CP22	6	14-Aug-24	19-Aug-24	WB TSS - Fire board - Tunnel Crown up to CP22		
D12515	WB TSS - Fire board - Tunnel Crown up to CP23	8	19-Aug-24	27-Aug-24	WB TSS - Fire board - Tunnel Crown up to CP23		
D12525	WB TSS - Fire board - Tunnel Crown up to CP24	8	27-Aug-24	04-Sep-24	WB TSS - Fire board - Tunnel Crown up to CP24		
D12535	WB TSS - Fire board - Tunnel Crown up to CP25	8	04-Sep-24	12-Sep-24	WB TSS - Fire board - Tunnel Crown up to CP25		
D12545	WB TSS - Fire board - Tunnel Crown up to CP26	8	12-Sep-24	20-Sep-24	WB TSS - Fire board - Tunnel Crown up to CP26		
D12555	WB TSS - Fire board - Tunnel Crown up to CP27	8	20-Sep-24	28-Sep-24	WB TSS - Fire board - Tunnel Crown up to CP27		
D12565	WB TSS - Fire board - Tunnel Crown up to CP28	8	28-Sep-24	06-Oct-24	WB TSS - Fire board - Tunnel Crown up to CP28		
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	WB TSS - Fire Board - Road level up to CP23		
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	WB TSS - E&M Brackets up to CP23		
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	EB Type A - OHVD Formwork Assembly		
CKL10020	EVB Portal EB - OHVD	92	02-Jun-24*	01-Sep-24	EVB Portal EB - OHVD		
CKL10070	EB Type C - lining	77	01-Jul-24*	15-Sep-24	EB Type C - lining		
CKL10130	EB Type C - Crown formwork dismantling	14	16-Sep-24	29-Sep-24	EB Type C - Crown formwork dismantling		
CKL10090	EB Type A - OHVD	62	29-Aug-24	29-Oct-24	EB T		
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	WB CKL - Road Barrier CP32 to Portal		
CKL10050	WB CKL - Road Barrier CP32 to OHVD Bay 9)	14	22-Aug-24	04-Sep-24	WB CKL - Road Barrier CP32 to OHVD Bay 9)		
CKL10060	WB CKL - Pretunnel invert breaking (68m) 1m per day	68	24-Jul-24	29-Sep-24	WB CKL - Pretunnel invert breaking (68m) 1m per day		
CKL10080	WB CKL - Fireboard CH9238 to CH9258 CPS & NCPS	20	08-Oct-24*	27-Oct-24	WB CKL		
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	CP25 - WB - Tympanum Civil works CH8489		
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	CP26 - W		
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	CP30 - Excavation (13.6m2 * 14m, 200m3, 5m3/d)		
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	CP31 - Backfill		
A229438416	CP31 - Lining Structure	26	30-Sep-24	25-Oct-24	CP31 - Lining		
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	CP32 - Lining Structure		
A229422590	CP32 - Collar	26	09-Aug-24	03-Sep-24	CP32 - Collar		
CP33		126	24-Jul-24	26-Nov-24			
A1710	CP33 - Rock Plug Excavation	26	24-Jul-24	18-Aug-24	CP33 - Rock Plug Excavation		
A1720	CP33 - CP33/Type E Junction	67	19-Aug-24	24-Oct-24	CP33 - CP33/Ty		
A1980	CP33 - Lining Formwork Assembly	33	25-Oct-24	26-Nov-24			

- ◆ Milestones
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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	2024		
					Aug	Sep	Oct
10 East Ventilation Building - EVB		880	20-Jul-24	19-Mar-25			
D12615	WB Base Slab + BL Wall	724	20-Jul-24	27-Sep-24	WB Base Slab + BL Wall		
D12645	WB BL Slab	29	28-Sep-24	30-Oct-24			WB
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			◆ 314 s
A40242	GBP Final amendment submission and approval	53	31-Aug-24*	29-Oct-24	GBP		
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	EVB - RC works (LG2 OHVD Slabs EB & WB)		
A1040	EVB - Removal of Tower Crane (TC1)	3	30-Sep-24*	03-Oct-24			EVB - Removal of Tower Crane (TC1)
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	Bridge Deck Construction + Bearing Installation		
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	Slab formwork		
A100080	Slab bottom pour	17	13-Aug-24	29-Aug-24	Slab bottom pour		
A100090	Slab top pour	9	30-Aug-24	07-Sep-24	Slab top pour		
A100100	Concrete curing	13	09-Sep-24	23-Sep-24	Concrete curing		
E&M works		27	09-Sep-24	08-Oct-24			
A100009	E&M works	27	09-Sep-24	08-Oct-24	E&M works		
Essential Criteria for FSI		143	25-Jul-24	27-Dec-24			
Power Egerization		143	25-Jul-24	27-Dec-24			
A229449470	CLP Rm - ABWF works	20	25-Jul-24*	14-Aug-24	CLP Rm - ABWF works		
A4001	CLP Rm - E&M works & CLP Pre-inspection	40	15-Aug-24	26-Sep-24	CLP Rm - E&M works & CLP Pre-inspection		
A4010	CLP Final Inspection / CLP Tx Rm - Handover to CLP	0		08-Oct-24			◆ CLP Final Inspection / CLP Tx Rm - Handover to CLP
A4019	CLP Mobilization	27	09-Oct-24	06-Nov-24			
A4009	Available SO2 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	Fuel Tank Room - ABWF works		
A8000	Emergency Generator Room - ABWF works	13	15-Aug-24	28-Aug-24	Emergency Generator Room - ABWF works		
A8001	EVB - Generator delivery on site (TBC)	0		23-Sep-24			◆ EVB - Generator delivery on site (TBC)
A10080	EVB - Oil Tank delivery on site (TBC)	0		23-Sep-24			◆ EVB - Oil Tank delivery on site (TBC)
A10090	Waiting Period	7	24-Sep-24	30-Sep-24			Waiting Period
A10100	FSD on-site Inspection	7	02-Oct-24	08-Oct-24			FSD on-site Inspection
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	Setting out and preparation work		
A100150	Guide Rail Installation	7	02-Sep-24	07-Sep-24	Guide Rail Installation		
A100151	Machine & Controller Installation	7	09-Sep-24	14-Sep-24	Machine & Controller Installation		
A100160	Landing Door Builder's Work Modification	22	16-Sep-24	10-Oct-24	Landing Door Builder's Work Modification		
A100161	Pit Equipment installation	7	12-Oct-24	18-Oct-24			Pit Equipment installation
A100170	Car Cage & CWT Frame Assembly	11	19-Oct-24*	30-Oct-24			Ca
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			

- ◆ 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
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Activity ID	Activity Name	Dur	Start	Finish	2024		
					Aug	Sep	Oct
E&M1050	EB TSS - CP16-21 E&M installation	90	02-Jun-24	30-Aug-24	EB TSS - CP16-21 E&M installation		
E&M1070	EB TSS - CP21-22 E&M installation	90	17-Jul-24	14-Oct-24	EB TSS - CP21-22 E&M installation		
E&M1010	EB TSS - CP7-11 E&M installation	90	15-Sep-24*	13-Dec-24	EB TSS - CP7-11 E&M installation		
Westbound TSS before CP21		90	27-Sep-24	25-Dec-24	Westbound TSS before CP21		
E&M1020	WB TSS - CP11-16 E&M installation	90	27-Sep-24	25-Dec-24	WB TSS - CP11-16 E&M installation		

- ◆ 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

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Jul 31	Aug 32	Sep 33	Oct 34
Trunk Road T2 - Traffic Control & Surveillance System & Associated Works													
Access Dates													
AC1050	Portion 2 - LS - CKL Tunnel CH 6+568 to CH 7+100	0					26-Jul-24						
AC1060	Portion 2 - LS - CKL Tunnel CH 7+100 to CH 7+600	0					26-Jul-24						
AC1070	Portion 2 - LS - CKL Tunnel CH 7+600 to CH 8+100	0					26-Jul-24						
AC1000	Portion 1 - South Apron Up to SUS	0	01-Aug-24		12-Jun-24								
AC1020	Portion 3 - CKL Branch Tunnel in TKO-LTT Site	0	01-Aug-24		11-Jan-25								
AC1030	Portion 4 - TKO-LTT (LT Interchange)	0	01-Aug-24		01-May-24								
AC1040	Underpass S21	0	01-Aug-24		26-Apr-25								
AC1080	Portion 2 - LS - CKL Tunnel CH 8+100 to CH 8+750	0	13-Aug-24		04-Oct-24								
Summary by Cost Center													
Cost Center B - Central System													
SC1060	Configuration for Central System	76					01-Aug-23	23-Jul-24	EM1150: SS				
SC1050	FAT of Central System	59					31-Oct-23	23-Jul-24	EM1150: FS				
SC1070	SCT Plan Submission & Approval for Central System	84	01-Aug-24	15-Oct-24	14-Mar-25	14-Mar-25	06-Jul-24		DS2940: SS				
SC1090	SAT Plan Submission & Approval for Central System	78	03-Aug-24	05-Nov-24	07-Jan-25	11-Apr-25			DS3500: SS				
SC1080	Site Installation of Central System	86	27-Aug-24	07-Dec-24	23-Oct-24	17-Feb-25			SW1100: SS, SW1120: SS, SW1960: SS, SW1090: SS, SW1670: SS, SW1770: SS				
Cost Center C - Traffic Control Devices													
SC1150	Installation Drawing Preparation, Submission & Approval for Traffic Control Devices	72	01-Aug-24	26-Aug-24	30-Aug-24	30-Aug-24	31-Aug-23		DS5890: SS				
SC1190	Equipment Manufacturing & Delivery for Traffic Control Devices	135	01-Aug-24	30-Aug-24	30-Aug-24	30-Aug-24	16-Sep-23		EM1320: SS				
SC1200	SCT Plan Submission & Approval for Traffic Control Devices	84	31-Aug-24	10-Dec-24	12-Nov-24	22-Feb-25			DS2980: SS				
SC1220	SAT Plan Submission & Approval for Traffic Control Devices	84	30-Sep-24	09-Jan-25	30-Dec-24	11-Apr-25			DS3540: SS				
Cost Center D - Communication System													
SC1280	Installation Drawing Preparation, Submission & Approval for Communication System	60	01-Aug-24	09-Aug-24	07-Oct-24	07-Oct-24	22-Apr-24		DS5930: SS				
SC1340	SCT Plan Submission & Approval for Communication System	84	01-Aug-24	09-Nov-24	24-Oct-24	14-Mar-25			DS3020: SS				
SC1350	SAT Plan Submission & Approval for Communication System	80	15-Aug-24	19-Nov-24	07-Nov-24	13-Feb-25			DS3580: SS				
Cost Center E - CCTV System													
SC1410	Installation Drawing Preparation, Submission & Approval for CCTV System	99	01-Aug-24	26-Aug-24	02-Feb-27	02-Feb-27	01-Mar-23		DS5970: SS				
SC1440	FAT of CCTV System	96					31-Oct-23	11-Jul-24	EM1050: FS				
SC1430	FAT Plan Submission & Approval for CCTV System	72	01-Aug-24	01-Aug-24	31-Jul-24	31-Jul-24	13-Dec-23		DS4050: SS				
SC1460	SCT Plan Submission & Approval for CCTV System	84	01-Aug-24	02-Oct-24	03-Feb-25	03-Feb-25	24-Jun-24		DS3060: SS				
SC1480	SAT Plan Submission & Approval for CCTV System	84	20-Aug-24	28-Nov-24	24-Dec-24	07-Apr-25			DS3620: SS				
SC1470	Site Installation of CCTV System	61	29-Oct-24	09-Jan-25	25-Sep-24	12-Mar-25			SW1060: SS, SW1940: SS				
Cost Center F - PABX System													
SC1560	Installation Drawing Preparation, Submission & Approval for PABX System	68	01-Aug-24	26-Aug-24	08-Oct-24	08-Oct-24	27-Jul-23		DS6010: SS				
SC1600	SCT Plan Submission & Approval for PABX System	84	01-Aug-24	07-Oct-24	07-Apr-25	07-Apr-25	28-Jun-24		DS3100: SS				
SC1590	Site Installation of PABX System	106	10-Sep-24	16-Jan-25	09-Jan-25	07-Apr-25			SW2380: SS				
SC1610	SAT Plan Submission & Approval for PABX System	84	23-Sep-24	02-Jan-25	16-Apr-25	26-Jul-25			DS3660: SS				
Cost Center G - ET System													
SC1730	SCT Plan Submission & Approval for ET System	84	01-Aug-24	09-Nov-24	12-Nov-24	08-Mar-25			DS3140: SS				
SC1740	SAT Plan Submission & Approval for ET System	84	14-Oct-24	21-Jan-25	23-Jan-25	07-May-25			DS3700: SS				
Cost Center H - PA System													
SC1850	SCT Plan Submission & Approval for PA System	84	01-Aug-24	19-Sep-24	22-Mar-25	22-Mar-25	11-Jun-24		DS3180: SS				
SC1860	Site Installation of PA System	106	27-Aug-24	02-Jan-25	24-Dec-24	22-Mar-25			SW2370: SS				

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Jul 31	Aug 32	Sep 33	Oct 34
SC1870	SAT Plan Submission & Approval for PA System	84	05-Sep-24	14-Dec-24	01-Apr-25	12-Jul-25			DS3740: SS				
Cost Center I - Radio System		257	01-Aug-24	07-Feb-25	12-Aug-24	07-May-25	31-Jan-24						
SC1960	FAT of Radio System	14					31-Jan-24	08-Jul-24	EM1090: FS				
SC1930	Installation Drawing Preparation, Submission & Approval for Radio System	60	01-Aug-24	12-Oct-24	12-Aug-24	23-Oct-24			DS6130: SS				
SC1980	SCT Plan Submission & Approval for Radio System	84	01-Aug-24	09-Nov-24	29-Oct-24	15-Mar-25			DS3220: SS				
SC1990	Site Installation of Radio System	86	14-Oct-24	23-Jan-25	10-Feb-25	21-Apr-25			SW2390: SS				
SC2000	SAT Plan Submission & Approval for Radio System	84	28-Oct-24	07-Feb-25	23-Jan-25	07-May-25			DS3780: SS				
Cost Center J - Detection System		427	01-Aug-24	11-Apr-25	01-Nov-23	02-Feb-27	24-May-23						
SC2060	Installation Drawing Preparation, Submission & Approval for Detection System	124	01-Aug-24	26-Aug-24	02-Feb-27	02-Feb-27	24-May-23		DS6170: SS				
SC2100	Equipment Manufacturing & Delivery for Detection System	90	01-Aug-24	13-Sep-24	09-Jan-25	09-Jan-25	01-Aug-23		EM1100: SS, EM1660: SS				
SC2090	FAT of Detection System	87	01-Aug-24	15-Sep-24	01-Nov-23	28-Aug-24	31-Oct-23		EM1100: FS, EM1660: FS				
SC2080	FAT Plan Submission & Approval for Detection System	66	01-Aug-24	13-Sep-24	09-Jan-25	09-Jan-25	19-Apr-24		DS4450: SS, DS8420: SS				
SC2110	SCT Plan Submission & Approval for Detection System	84	01-Aug-24	09-Nov-24	09-Sep-24	17-Jan-25			DS3260: SS				
SC2120	Site Installation of Detection System	164	24-Sep-24	11-Apr-25	05-Sep-24	12-Mar-25			SW1070: SS, SW1250: SS				
Cost Center K - Manual Fallback System		246	01-Aug-24	26-Nov-24	24-Jul-24	14-Mar-25	01-Aug-23						
SC2220	FAT of Manual Fallback System	60					01-Aug-23	23-Jul-24	EM1640: SS				
SC2190	Installation Drawing Preparation, Submission & Approval for Manual Fallback System	60	01-Aug-24	26-Aug-24	05-Feb-25	05-Feb-25	31-Aug-23		DS6210: SS				
SC2250	SCT Plan Submission & Approval for Manual Fallback System	84	01-Aug-24	15-Oct-24	14-Mar-25	14-Mar-25	06-Jul-24		DS3300: SS				
SC2200	Post FAT Configuration for Manual Fallback System	90	01-Aug-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	03-Aug-24	12-Nov-24	12-Nov-24	22-Feb-25			DS3860: SS				
SC2240	Site Installation of Manual Fallback System	24	30-Oct-24	26-Nov-24	06-Feb-25	05-Mar-25			EM1110: FS				
Cost Center L - Speed Enforcement System		152	01-Aug-24	03-Feb-25	30-Nov-24	07-May-25							
SC2340	Installation Drawing Preparation, Submission & Approval for Speed Enforcement System	60	01-Aug-24	12-Oct-24	17-Dec-24	01-Mar-25			DS6290: SS				
SC2370	SCT Plan Submission & Approval for Speed Enforcement System	84	01-Aug-24	09-Nov-24	30-Nov-24	22-Mar-25			DS3380: SS				
SC2380	Reliability Test Plan Submission & Approval for Speed Enforcement System	84	29-Aug-24	07-Dec-24	30-Dec-24	11-Apr-25			DS3940: SS				
SC2390	Site Installation of Speed Enforcement System	90	16-Oct-24	03-Feb-25	03-Mar-25	07-May-25			SW2330: SS				
Cost Center M - Power Distribution System		336	01-Aug-24	20-Feb-25	28-Sep-23	14-May-25	27-Sep-23						
SC2470	Equipment Manufacturing & Delivery for Power Distribution System	98	01-Aug-24	30-Aug-24	28-Sep-23	12-Aug-24	27-Sep-23		DS2592: FS				
SC2490	SCT Plan Submission & Approval for Power Distribution System	84	31-Aug-24	10-Dec-24	13-Aug-24	21-Nov-24			DS3420: SS				
SC2480	Site Installation of Power Distribution System	116	02-Oct-24	20-Feb-25	11-Mar-25	14-May-25			SW1920: SS, SW2250: SS				
Cost Center N - Government Optical Fibre System		409	01-Aug-24	10-Dec-24	03-Aug-23	28-Apr-25	02-Aug-23						
SC2560	Equipment Manufacturing & Delivery for Government Optical Fibre System	111	01-Aug-24	30-Aug-24	03-Aug-23	03-Dec-24	02-Aug-23		DS2650: FS 200				
SC2550	Installation Drawing Preparation, Submission & Approval for Government Optical Fibre System	60					22-Apr-24	27-Jul-24	DS6330: SS				
SC2580	SCT Plan Submission & Approval for Government Optical Fibre System	84	31-Aug-24	10-Dec-24	16-Jan-25	28-Apr-25			DS3460: SS				
Operation Facilities		298	01-Aug-24	05-Feb-25	12-Jul-24	02-May-25	01-Aug-23						
SC2660	FAT of Operation Facilities	78					01-Aug-23	11-Jul-24	EM1560: SS				
SC2650	FAT Plan Submission & Approval for Operation Facilities	81	01-Aug-24	01-Aug-24	31-Jul-24	31-Jul-24	13-Dec-23		DS4600: SS				
SC2670	Equipment Manufacturing & Delivery for Operation Facilities	90	01-Aug-24	24-Oct-24	12-Jul-24	29-Nov-24	11-Jul-24		EM1550: FS				
SC2630	Installation Drawing Preparation, Submission & Approval for Operation Facilities	60	01-Aug-24	12-Oct-24	04-Dec-24	17-Feb-25			DS6250: SS				
SC2680	Site Installation of Operation Facilities	16	25-Oct-24	12-Nov-24	30-Nov-24	05-Mar-25			EM1120: FS				
SC2690	SCT Plan Submission & Approval for Operation Facilities	84	25-Oct-24	05-Feb-25	30-Nov-24	02-May-25			DS3340: SS				
Design & Submissions		304	01-Aug-24	28-Aug-24	02-Nov-24	25-Jun-25	29-Aug-23						
FSP Submissions (42 Working Days after Commencement of FSP)		304	01-Aug-24	28-Aug-24	02-Nov-24	25-Jun-25	29-Aug-23						
FSP Batch 1 Submission		304	01-Aug-24	28-Aug-24	02-Nov-24	25-Jun-25	29-Aug-23						
Central System		304	01-Aug-24	28-Aug-24	02-Nov-24	25-Jun-25	29-Aug-23						



GTECH Services (Hong Kong) Limited

■ Remaining Work
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 ■ Critical Activity
 ◆ Milestone

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

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Jul 31	Aug 32	Sep 33	Oct 34
Traffic Plan Review & Combine													
DS7300	Traffic Plan Review & Combine Workshop	140	01-Aug-24	28-Aug-24	02-Nov-24	29-Nov-24	28-Dec-23		DS1830: FS 22				
IT Security Risk Assessment Plan													
DS7440	Approval on IT Security Risk Assessment Plan	30	01-Aug-24	01-Aug-24	25-Jun-25	25-Jun-25	29-Aug-23		DS7430: FS				
Interface Coordination & Integration with Other Parties													
Interfacing Coordination with CKR (KTE)													
Detail Interfacing Management Plan (DIMP)													
DS6610	Prepare & Submit DIMP with CKR (KTE)	73	01-Aug-24	16-Sep-24	16-Dec-26	02-Feb-27	04-Jul-24	31-Jul-24	DS6600: FS 96				
DS6620	Comment on DIMP with CKR (KTE)	17	01-Aug-24	20-Aug-24	16-Dec-26	06-Jan-27			DS6610: FS				
DS6630	Resubmit DIMP with CKR (KTE)	16	21-Aug-24	07-Sep-24	07-Jan-27	25-Jan-27			DS6620: FS				
DS6640	Approval of DIMP with CKR (KTE)	7	09-Sep-24	16-Sep-24	26-Jan-27	02-Feb-27			DS6630: FS				
Interfacing Coordination with CKR (BEM)													
Detail Interfacing Management Plan (DIMP)													
DS6690	Prepare & Submit DIMP with CKR (BEM)	73	01-Aug-24	16-Sep-24	16-Dec-26	02-Feb-27	04-Jul-24	31-Jul-24	DS6600: FS 96				
DS6700	Comment on DIMP with CKR (BEM)	17	01-Aug-24	20-Aug-24	16-Dec-26	06-Jan-27			DS6690: FS				
DS6710	Resubmit DIMP with CKR (BEM)	16	21-Aug-24	07-Sep-24	07-Jan-27	25-Jan-27			DS6700: FS				
DS6720	Approval of DIMP with CKR (BEM)	7	09-Sep-24	16-Sep-24	26-Jan-27	02-Feb-27			DS6710: FS				
Interfacing Coordination with TKO-LTT (Civil)													
Detail Interfacing Management Plan (DIMP)													
DS6780	Comment on DIMP with TKO-LTT (Civil)	25	01-Aug-24	29-Aug-24	05-Jan-27	02-Feb-27	17-May-24		DS6770: FS				
DS6790	Resubmit DIMP with TKO-LTT (Civil)	16	02-Aug-24	20-Aug-24	06-Jan-27	23-Jan-27			DS6780: FS				
DS6800	Approval of DIMP with TKO-LTT (Civil)	8	21-Aug-24	29-Aug-24	25-Jan-27	02-Feb-27			DS6790: FS				
Interfacing Coordination with TKO-LTT (TCSS)													
Detail Interfacing Management Plan (DIMP)													
DS6860	Comment on DIMP with TKO-LTT (TCSS)	29	01-Aug-24	03-Sep-24	30-Dec-26	02-Feb-27	17-May-24		DS6850: FS				
DS6870	Resubmit DIMP with TKO-LTT (TCSS)	10	01-Aug-24	01-Aug-24	30-Dec-26	30-Dec-26	17-May-24		DS6860: FS				
DS6880	Approval of DIMP with TKO-LTT (TCSS)	16	02-Aug-24	20-Aug-24	31-Dec-26	19-Jan-27			DS6870: FS				
Interfacing Coordination with T2													
Preliminary Interfacing Management Plan (PIMP)													
DS6890	Prepare & Submit PIMP with T2	96	01-Aug-24	26-Oct-24	09-Nov-26	02-Feb-27			DS2680: FS 211				
DS6900	Comment on PIMP with T2	72	01-Aug-24	26-Oct-24	09-Nov-26	05-Dec-26			DS6890: FS				
DS6910	Resubmit PIMP with T2	24	29-Aug-24	26-Sep-24	07-Dec-26	05-Jan-27			DS6900: FS				
DS6920	Approval of PIMP with T2	12	27-Sep-24	12-Oct-24	06-Jan-27	19-Jan-27			DS6910: FS				
Detail Interfacing Management Plan (DIMP)													
DS6930	Prepare & Submit DIMP with T2	12	14-Oct-24	26-Oct-24	20-Jan-27	02-Feb-27			DS6920: FS				
DS6940	Comment on DIMP with T2	24	01-Aug-24	28-Aug-24	07-Dec-26	05-Jan-27			DS6930: FS				
DS6950	Resubmit DIMP with T2	24	29-Aug-24	11-Sep-24	06-Jan-27	19-Jan-27			DS6940: FS				
DS6960	Approval of DIMP with T2	12	12-Sep-24	26-Sep-24	20-Jan-27	02-Feb-27			DS6950: FS				
Drawing & Installation Method Statement Submissions													
Installation Drawing Submission													
DS2695	Prepare & Submit Schedule of Installation Drawing	285	01-Aug-24	05-Nov-24	06-Aug-24	02-Feb-27	10-Aug-23		DS1050: FS 103				
DS2705	Approval of Schedule of Installation Drawing	50	05-Sep-24	05-Nov-24	04-Dec-26	02-Feb-27			DS2695: FS				
Traffic Control Devices													
DS8240	Resubmit Installation Drawing for Traffic Control Devices	225	01-Aug-24	26-Aug-24	06-Aug-24	30-Aug-24	04-May-24		DS5920: FS				
DS8250	Approval of Installation Drawing for Traffic Control Devices	12	01-Aug-24	12-Aug-24	06-Aug-24	16-Aug-24	04-May-24		DS8240: FS, SC1150: FF				
Communication System													
DS5950	Resubmit Installation Drawing for Communication System	12	01-Aug-24	09-Aug-24	27-Sep-24	07-Oct-24	17-May-24	09-Jul-24	DS5940: FS				
DS5960	Comment on Installation Drawing for Communication System	12						10-Jul-24	DS5950: FS				
DS8470	Resubmit Installation Drawing for Communication System	12						19-Jul-24	DS5960: FS				
DS8480	Approval of Installation Drawing for Communication System	12	01-Aug-24	09-Aug-24	27-Sep-24	07-Oct-24	27-Jul-24		DS8470: FS, SC1280: FF				
CCTV System													
DS8020	Resubmit Installation Drawing for CCTV System	158	01-Aug-24	26-Aug-24	08-Jan-27	02-Feb-27	13-Dec-23		DS8010: FS				
DS8030	Approval of Installation Drawing for CCTV System	26	01-Aug-24	12-Aug-24	08-Jan-27	19-Jan-27	13-Dec-23		DS8020: FS, SC1410: FF				
PABX System													
DS8030	Approval of Installation Drawing for PABX System	227	01-Aug-24	26-Aug-24	11-Sep-24	08-Oct-24	08-Sep-23						



GTECH Services (Hong Kong) Limited

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Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Jul 31	Aug 32	Sep 33	Oct 34
DS6030	Resubmit Installation Drawing for PABX System	12	01-Aug-24	12-Aug-24	11-Sep-24	23-Sep-24	08-Sep-23		DS6020: FS				
DS6040	Approval of Installation Drawing for PABX System	12	13-Aug-24	26-Aug-24	24-Sep-24	08-Oct-24			DS6030: FS, SC1560: FF				
Radio System		60	01-Aug-24	12-Oct-24	12-Aug-24	23-Oct-24							
DS6130	Prepare & Submit Installation Drawing for Radio System	12	01-Aug-24	14-Aug-24	12-Aug-24	24-Aug-24			DS2154: FS				
DS6140	Comment on Installation Drawing for Radio System	24	15-Aug-24	11-Sep-24	26-Aug-24	23-Sep-24			DS6130: FS				
DS6150	Resubmit Installation Drawing for Radio System	12	12-Sep-24	26-Sep-24	24-Sep-24	08-Oct-24			DS6140: FS				
DS6160	Approval of Installation Drawing for Radio System	12	27-Sep-24	12-Oct-24	09-Oct-24	23-Oct-24			DS6150: FS, SC1930: FF				
Detection System		72	01-Aug-24	26-Aug-24	08-Jan-27	02-Feb-27	09-Dec-23						
DS8280	Resubmit Installation Drawing for Detection System	24	01-Aug-24	12-Aug-24	08-Jan-27	19-Jan-27	09-Dec-23		DS6200: FS				
DS8290	Approval of Installation Drawing for Detection System	12	13-Aug-24	26-Aug-24	20-Jan-27	02-Feb-27			DS8280: FS, SC2060: FF				
Manual Fallback Control System		71	01-Aug-24	26-Aug-24	08-Jan-25	05-Feb-25	04-May-24						
DS8300	Resubmit Installation Drawing for Manual Fallback Control System	12	01-Aug-24	12-Aug-24	08-Jan-25	18-Jan-25	04-May-24		DS6240: FS				
DS8310	Approval of Installation Drawing for Manual Fallback Control System	12	13-Aug-24	26-Aug-24	20-Jan-25	05-Feb-25			DS8300: FS, SC2190: FF				
Operation Facility		60	01-Aug-24	12-Oct-24	04-Dec-24	17-Feb-25							
DS6250	Prepare & Submit Installation Drawing for Operation Facility	12	01-Aug-24	14-Aug-24	04-Dec-24	17-Dec-24			DS2532: FS				
DS6260	Comment on Installation Drawing for Operation Facility	24	15-Aug-24	11-Sep-24	18-Dec-24	16-Jan-25			DS6250: FS				
DS6270	Resubmit Installation Drawing for Operation Facility	12	12-Sep-24	26-Sep-24	17-Jan-25	03-Feb-25			DS6260: FS				
DS6280	Approval of Installation Drawing for Operation Facility	12	27-Sep-24	12-Oct-24	04-Feb-25	17-Feb-25			DS6270: FS, SC2630: FF				
Speed Enforcement System		60	01-Aug-24	12-Oct-24	17-Dec-24	01-Mar-25							
DS6290	Prepare & Submit Installation Drawing for Speed Enforcement System	12	01-Aug-24	14-Aug-24	17-Dec-24	31-Dec-24			DS2472: FS				
DS6300	Comment on Installation Drawing for Speed Enforcement System	24	15-Aug-24	11-Sep-24	02-Jan-25	01-Feb-25			DS6290: FS				
DS6310	Resubmit Installation Drawing for Speed Enforcement System	12	12-Sep-24	26-Sep-24	03-Feb-25	15-Feb-25			DS6300: FS				
DS6320	Approval of Installation Drawing for Speed Enforcement System	12	27-Sep-24	12-Oct-24	17-Feb-25	01-Mar-25			DS6310: FS, SC2340: FF				
Government Optical Fibre System		36	01-Aug-24	09-Aug-24	12-Nov-24	20-Nov-24	17-May-24						
DS6350	Resubmit Installation Drawing for Government Optical Fibre System	12					17-May-24	09-Jul-24	DS6340: FS				
DS6360	Comment on Installation Drawing for Government Optical Fibre System	12					10-Jul-24	18-Jul-24	DS6350: FS				
DS8490	Resubmit Installation Drawing for Government Optical Fibre System	12					19-Jul-24	26-Jul-24	DS6360: FS				
DS8500	Approval of Installation Drawing for Government Optical Fibre System	12	01-Aug-24	09-Aug-24	12-Nov-24	20-Nov-24	27-Jul-24		DS8490: FS, SC2550: FS				
Installation Method Statement Submission		200	01-Aug-24	27-Aug-24	06-Aug-24	02-Feb-27	10-Aug-23						
Traffic Control Devices		47	01-Aug-24	26-Aug-24	06-Aug-24	30-Aug-24	29-Jun-24						
DS2800	Resubmit Installation Method Statement for Installation of TCSS Field Equipment	12	01-Aug-24	12-Aug-24	06-Aug-24	16-Aug-24	29-Jun-24		DS2790: FS				
DS2810	Approval of Installation Method Statement for Installation of TCSS Field Equipment	12	13-Aug-24	26-Aug-24	17-Aug-24	30-Aug-24			DS2800: FS				
CCTV Camera & VD Camera		47	01-Aug-24	26-Aug-24	10-Aug-24	04-Sep-24	29-Jun-24						
DS6430	Resubmit Installation Method Statement for CCTV Camera & VD Camera	12	01-Aug-24	12-Aug-24	10-Aug-24	21-Aug-24	29-Jun-24		DS6420: FS				
DS6440	Approval of Installation Method Statement for CCTV Camera & VD Camera	12	13-Aug-24	26-Aug-24	22-Aug-24	04-Sep-24			DS6430: FS				
PABX, ET & PA Systems		47	01-Aug-24	26-Aug-24	28-Aug-24	23-Sep-24	29-Jun-24						
DS6470	Resubmit Installation Method Statement for PABX, ET & PA Systems	12	01-Aug-24	12-Aug-24	28-Aug-24	07-Sep-24	29-Jun-24		DS6460: FS				
DS6480	Approval of Installation Method Statement for PABX, ET & PA Systems	12	13-Aug-24	26-Aug-24	09-Sep-24	23-Sep-24			DS6470: FS				
Radio System		48	01-Aug-24	27-Aug-24	25-Sep-24	23-Oct-24	29-Jun-24						
DS6510	Resubmit Installation Method Statement for Radio System	12	01-Aug-24	13-Aug-24	25-Sep-24	08-Oct-24	29-Jun-24		DS6500: FS				
DS6520	Approval of Installation Method Statement for Radio System	12	14-Aug-24	27-Aug-24	09-Oct-24	23-Oct-24			DS6510: FS				
Power Distribution System		199	01-Aug-24	26-Aug-24	08-Jan-27	02-Feb-27	10-Aug-23						



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										Jul 31	Aug 32	Sep 33	Oct 34
DS6550	Resubmit Installation Method Statement for Power Distribution System	6	01-Aug-24	12-Aug-24	08-Jan-27	19-Jan-27	10-Aug-23		DS6540: FS				
DS6560	Approval of Installation Method Statement for Power Distribution System	12	13-Aug-24	26-Aug-24	20-Jan-27	02-Feb-27			DS6550: FS				
SEC System		47	01-Aug-24	26-Aug-24	05-Feb-25	01-Mar-25	29-Jun-24						
DS7400	Resubmit Installation Method Statement for SEC System	12	01-Aug-24	12-Aug-24	05-Feb-25	15-Feb-25	29-Jun-24		DS7390: FS				
DS7410	Approval of Installation Method Statement for SEC System	12	13-Aug-24	26-Aug-24	17-Feb-25	01-Mar-25			DS7400: FS				
Detection System		47	01-Aug-24	26-Aug-24	10-Aug-24	04-Sep-24	29-Jun-24						
DS7490	Resubmit Installation Method Statement for Detection System	12	01-Aug-24	12-Aug-24	10-Aug-24	21-Aug-24	29-Jun-24		DS7480: FS				
DS7500	Approval of Installation Method Statement for Detection System	12	13-Aug-24	26-Aug-24	22-Aug-24	04-Sep-24			DS7490: FS				
FAT Plan Submissions, Equipment Procurement & Manufacturing		248	01-Aug-24	29-Oct-24	13-Jul-24	02-Feb-27	10-Oct-23						
CCTV System		52					23-May-24	31-Jul-24					
FAT Plan Submission		52					23-May-24	31-Jul-24					
DS8340	Resubmission of FAT Plan for CCTV System	12					23-May-24	26-Jul-24	DS8150: FS				
DS8350	Approval of FAT Plan for CCTV System	12					27-Jul-24	31-Jul-24	DS8340: FS, SC1430: FF				
Equipment FAT & Manufacturing		5					27-Jun-24	26-Jul-24					
EM1480	FAT of CCTV System	2					27-Jun-24	11-Jul-24	SC1440: FF, EM1050: FS, SC1450: FS, DS8350: FS				
DS4090	Submit CCTV System FAT Test Report	1					26-Jul-24	26-Jul-24	EM1480: FS 6				
Traffic Control Devices		117	01-Aug-24	30-Aug-24	01-Aug-24	30-Aug-24	10-Oct-23						
Equipment FAT & Manufacturing		117	01-Aug-24	30-Aug-24	01-Aug-24	30-Aug-24	10-Oct-23						
PVMS		85	01-Aug-24	30-Aug-24	01-Aug-24	30-Aug-24	10-Oct-23						
EM1030	Post-FAT Manufacturing & Delivery of Traffic Control Devices (PVMS)	85	01-Aug-24	30-Aug-24	01-Aug-24	30-Aug-24	10-Oct-23		DS4290: FF, SC1190: FF, EM1460: FS				
LED Signage		85	01-Aug-24	30-Aug-24	01-Aug-24	30-Aug-24	12-Mar-24						
EM1650	Post-FAT Manufacturing & Delivery of Traffic Control Devices (LED Signage)	85	01-Aug-24	30-Aug-24	01-Aug-24	30-Aug-24	12-Mar-24		EM1461: FS, SC1190: FF, DS4291: FS, DS8160: FS				
Central System		8	01-Aug-24	01-Aug-24	22-Oct-24	22-Oct-24	09-Jul-24						
Equipment FAT & Manufacturing		8	01-Aug-24	01-Aug-24	22-Oct-24	22-Oct-24	09-Jul-24						
EM1580	FAT of Central System	9					09-Jul-24	23-Jul-24	SC1050: FF, EM1150: FS, SC1060: FF, DS8130: FS, DS8230: FS 27				
DS4340	Submit Central System FAT Test Report	1	01-Aug-24	01-Aug-24	22-Oct-24	22-Oct-24			EM1580: FS 6				
Radio System		34					20-Jun-24	15-Jul-24					
Equipment FAT & Manufacturing		34					20-Jun-24	15-Jul-24					
EM1520	FAT of Radio Distribution Network	5					20-Jun-24	08-Jul-24	EM1090: FS, SC1970: FS, SC1960: FF, DS8210: FS				
EM1610	FAT of Radio O&M (Mobile & Portable)	5					20-Jun-24	08-Jul-24	EM1090: FS, SC1970: FS, SC1960: FF, DS8210: FS				
DS4390	Submit Radio System FAT Test Report	1					15-Jul-24	15-Jul-24	EM1610: FS 6, EM1520: FS 6				
Detection System		70	01-Aug-24	23-Sep-24	13-Jul-24	18-Jan-25	06-Jun-24						
FAT Plan Submission		63	01-Aug-24	13-Sep-24	13-Jul-24	09-Jan-25	06-Jun-24						
VD & HMD		63	01-Aug-24	13-Sep-24	13-Jul-24	26-Aug-24	06-Jun-24						
DS4470	Resubmission of FAT Plan for Detection System	12	01-Aug-24	02-Aug-24	13-Jul-24	15-Jul-24	06-Jun-24		DS4460: FS				
DS4480	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	12	03-Aug-24	16-Aug-24	16-Jul-24	29-Jul-24			DS4470: FS				
DS8530	Resubmission of FAT Plan for Detection System	12	17-Aug-24	30-Aug-24	30-Jul-24	12-Aug-24			DS4480: FS				
DS8540	Approval of FAT Plan for Detection System	12	31-Aug-24	13-Sep-24	13-Aug-24	26-Aug-24			DS8530: FS, SC2080: FF				
OHVD		55	01-Aug-24	04-Sep-24	04-Dec-24	09-Jan-25	19-Jun-24						
DS8440	Resubmission of FAT Plan for Detection System	12					19-Jun-24	24-Jul-24	DS8430: FS				
DS8450	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	12	01-Aug-24	07-Aug-24	04-Dec-24	10-Dec-24	25-Jul-24		DS8440: FS				
DS8510	Resubmission of FAT Plan for Detection System	12	08-Aug-24	21-Aug-24	11-Dec-24	24-Dec-24			DS8450: FS				
DS8520	Approval of FAT Plan for Detection System	12	22-Aug-24	04-Sep-24	26-Dec-24	09-Jan-25			DS8510: FS, SC2080: FF				



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										Jul 31	Aug 32	Sep 33	Oct 34
Equipment FAT & Manufacturing		15	05-Sep-24	23-Sep-24	27-Aug-24	18-Jan-25							
VD & HMD		7	14-Sep-24	23-Sep-24	27-Aug-24	04-Sep-24							
EM1530	FAT of Detection System - VD & HMD	2	14-Sep-24	15-Sep-24	27-Aug-24	28-Aug-24			SC2090: FF, EM1100: FS, SC2100: FS, DS8540: FS				
DS4490	Submit Detection System FAT Test Report	1	23-Sep-24	23-Sep-24	04-Sep-24	04-Sep-24			EM1530: FS 6				
OHVD		8	05-Sep-24	13-Sep-24	10-Jan-25	18-Jan-25							
EM1670	FAT of Detection System - OHVD	2	05-Sep-24	06-Sep-24	10-Jan-25	11-Jan-25			EM1660: FS, SC2090: SS, SC2100: FS, DS8520: FS				
DS8460	Submit Detection System FAT Test Report	1	13-Sep-24	13-Sep-24	18-Jan-25	18-Jan-25			EM1670: FS 6				
Power Distribution System		89	01-Aug-24	30-Aug-24	14-Jul-24	12-Aug-24	01-Dec-23						
Equipment Manufacturing		89	01-Aug-24	30-Aug-24	14-Jul-24	12-Aug-24	01-Dec-23						
EM1620	Manufacturing & Delivery of Power Distribution System Equipment	89	01-Aug-24	30-Aug-24	14-Jul-24	12-Aug-24	01-Dec-23		SC2470: FF, DS7650: FS, DS2592: FS				
Government Optical Fibre System		105	01-Aug-24	30-Aug-24	04-Nov-24	03-Dec-24	01-Dec-23						
Equipment Manufacturing		105	01-Aug-24	30-Aug-24	04-Nov-24	03-Dec-24	01-Dec-23						
EM1630	Manufacturing & Delivery of Government Optical Fibre System Equipment	105	01-Aug-24	30-Aug-24	04-Nov-24	03-Dec-24	01-Dec-23		DS2650: FS 200, SC2560: FF, DS7660: FS				
Operation Facilities		84	01-Aug-24	24-Oct-24	06-Sep-24	29-Nov-24	23-May-24						
FAT Plan Submission		18					23-May-24	31-Jul-24					
DS8400	Resubmission of FAT Plan for Operation Facility	12					23-May-24	26-Jul-24	DS8390: FS				
DS8410	Approval of FAT Plan for Operation Facility	12					27-Jul-24	31-Jul-24	DS8400: FS, SC2650: FF, DS4620: FS				
Equipment FAT & Manufacturing		84	01-Aug-24	24-Oct-24	06-Sep-24	29-Nov-24	27-Jun-24						
EM1550	FAT of Operation Facilities	2					27-Jun-24	11-Jul-24	DS4630: FS, SC2660: FF, DS7310: FS, EM1560: FS, DS7550: FS, DS7670: FS, DS8410: FS, DS8410: FF				
DS4640	Submit Operation Facilities FAT Test Report	1					26-Jul-24	26-Jul-24	EM1550: FS 6, DS7550: FS				
EM1120	Post-FAT Manufacturing & Delivery of Operation Facilities	90	01-Aug-24	24-Oct-24	06-Sep-24	29-Nov-24	27-Jul-24		EM1550: FS, DS4640: FF, SC2670: FF, DS2530: FS, DS2532: FS				
Speed Enforcement System		12	05-Sep-24	19-Sep-24	19-Jan-27	02-Feb-27							
Equipment FAT & Manufacturing		12	05-Sep-24	19-Sep-24	19-Jan-27	02-Feb-27							
EM1600	SEC System Bench Test	2	05-Sep-24	06-Sep-24	19-Jan-27	20-Jan-27			EM1570: FS 60, DS8370: FS 60				
DS4740	Submit SEC System Bech Test Report	1	19-Sep-24	19-Sep-24	02-Feb-27	02-Feb-27			EM1600: FS 12				
Manual Fallback Control System		74	01-Aug-24	29-Oct-24	08-Nov-24	05-Feb-25	23-Jul-24						
Equipment FAT & Manufacturing		74	01-Aug-24	29-Oct-24	08-Nov-24	05-Feb-25	23-Jul-24						
EM1540	FAT of Manual Fallback Control System	9					23-Jul-24	23-Jul-24	DS4780: FS, SC2220: FF, EM1640: FS, DS7690: FS, EM1580: SS				
DS4790	Submit Manual Fallback Control System FAT Test Report	1	01-Aug-24	01-Aug-24	05-Feb-25	05-Feb-25			EM1540: FS 6				
EM1110	Post-FAT Configuration of Manual Fallback Control System	90	01-Aug-24	29-Oct-24	08-Nov-24	05-Feb-25			EM1540: FS, DS4790: FF, SC2200: FF				
SCT Plan Submissions		94	01-Aug-24	21-Nov-24	13-Aug-24	07-Apr-25	11-Jun-24						
Central System		61	01-Aug-24	15-Oct-24	28-Dec-24	14-Mar-25	06-Jul-24						
DS2940	Submission of Central System SCT Plan	24	01-Aug-24	02-Aug-24	28-Dec-24	30-Dec-24	06-Jul-24		DS4340: FS				
DS2950	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	03-Aug-24	30-Aug-24	31-Dec-24	28-Jan-25			DS2940: FS				
DS2960	Resubmission of SCT Plan for Central System	12	31-Aug-24	13-Sep-24	01-Feb-25	14-Feb-25			DS2950: FS				
DS2970	Approval of SCT Plan for Central System	24	14-Sep-24	15-Oct-24	15-Feb-25	14-Mar-25			DS2960: FS, SC1070: FF				
Traffic Control Devices		60	31-Aug-24	12-Nov-24	12-Nov-24	22-Jan-25							
DS2980	Submission of Traffic Control Devices SCT Plan	24	31-Aug-24	28-Sep-24	12-Nov-24	09-Dec-24			EM1030: FS, EM1650: FS				
DS2990	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Sep-24	29-Oct-24	10-Dec-24	08-Jan-25			DS2980: FS				
DS3000	Resubmission of SCT Plan for Traffic Control Devices	12	30-Oct-24	12-Nov-24	09-Jan-25	22-Jan-25			DS2990: FS				
Communication System		84	01-Aug-24	09-Nov-24	24-Oct-24	14-Mar-25							
DS3020	Submission of Communication System SCT Plan	24	01-Aug-24	28-Aug-24	24-Oct-24	20-Nov-24			EM1040: FS				



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										Jul 31	Aug 32	Sep 33	Oct 34
DS3030	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Aug-24	26-Sep-24	31-Dec-24	28-Jan-25			DS3020: FS				
DS3040	Resubmission of SCT Plan for Communication System	12	27-Sep-24	12-Oct-24	01-Feb-25	14-Feb-25			DS3030: FS				
DS3050	Approval of SCT Plan for Communication System	24	14-Oct-24	09-Nov-24	15-Feb-25	14-Mar-25			DS3040: FS, SC1340: FF				
CCTV System		52	01-Aug-24	02-Oct-24	29-Nov-24	03-Feb-25	24-Jun-24						
DS3060	Submission of CCTV System SCT Plan	24					24-Jun-24	22-Jul-24	EM1050: FS				
DS3070	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	01-Aug-24	19-Aug-24	29-Nov-24	17-Dec-24	23-Jul-24		DS3060: FS				
DS3080	Resubmission of SCT Plan for CCTV System	12	20-Aug-24	02-Sep-24	18-Dec-24	02-Jan-25			DS3070: FS				
DS3090	Approval of SCT Plan for CCTV System	24	03-Sep-24	02-Oct-24	03-Jan-25	03-Feb-25			DS3080: FS, SC1460: FF				
PABX System		56	01-Aug-24	07-Oct-24	28-Jan-25	07-Apr-25	28-Jun-24						
DS3100	Submission of PABX System SCT Plan	24					28-Jun-24	26-Jul-24	EM1060: FS				
DS3110	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	01-Aug-24	23-Aug-24	28-Jan-25	22-Feb-25	27-Jul-24		DS3100: FS				
DS3120	Resubmission of SCT Plan for PABX System	12	24-Aug-24	06-Sep-24	24-Feb-25	08-Mar-25			DS3110: FS				
DS3130	Approval of SCT Plan for PABX System	24	07-Sep-24	07-Oct-24	10-Mar-25	07-Apr-25			DS3120: FS, SC1600: FF				
ET System		84	01-Aug-24	09-Nov-24	12-Nov-24	08-Mar-25							
DS3140	Submission of ET System SCT Plan	24	01-Aug-24	28-Aug-24	12-Nov-24	09-Dec-24			EM1070: FS				
DS3150	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Aug-24	26-Sep-24	24-Dec-24	22-Jan-25			DS3140: FS				
DS3160	Resubmission of SCT Plan for ET System	12	27-Sep-24	12-Oct-24	23-Jan-25	08-Feb-25			DS3150: FS				
DS3170	Approval of SCT Plan for ET System	24	14-Oct-24	09-Nov-24	10-Feb-25	08-Mar-25			DS3160: FS, SC1730: FF				
PA System		48	01-Aug-24	19-Sep-24	03-Feb-25	22-Mar-25	11-Jun-24						
DS3180	Submission of PA System SCT Plan	24					11-Jun-24	10-Jul-24	EM1080: FS				
DS3190	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	01-Aug-24	07-Aug-24	03-Feb-25	08-Feb-25	11-Jul-24		DS3180: FS				
DS3200	Resubmission of SCT Plan for PA System	12	08-Aug-24	21-Aug-24	10-Feb-25	22-Feb-25			DS3190: FS				
DS3210	Approval of SCT Plan for PA System	24	22-Aug-24	19-Sep-24	24-Feb-25	22-Mar-25			DS3200: FS, SC1850: FF				
Radio System		84	01-Aug-24	09-Nov-24	29-Oct-24	15-Mar-25							
DS3220	Submission of Radio System SCT Plan	24	01-Aug-24	28-Aug-24	29-Oct-24	25-Nov-24			EM1090: SS 30				
DS3230	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Aug-24	26-Sep-24	02-Jan-25	01-Feb-25			DS3220: FS				
DS3240	Resubmission of SCT Plan for Radio System	12	27-Sep-24	12-Oct-24	03-Feb-25	15-Feb-25			DS3230: FS				
DS3250	Approval of SCT Plan for Radio System	24	14-Oct-24	09-Nov-24	17-Feb-25	15-Mar-25			DS3240: FS, SC1980: FF				
Detection System		84	01-Aug-24	09-Nov-24	09-Sep-24	17-Jan-25							
DS3260	Submission of Detection System SCT Plan	24	01-Aug-24	28-Aug-24	09-Sep-24	08-Oct-24			EM1100: FS, EM1660: FS				
DS3270	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Aug-24	26-Sep-24	07-Nov-24	04-Dec-24			DS3260: FS				
DS3280	Resubmission of SCT Plan for Detection System	12	27-Sep-24	12-Oct-24	05-Dec-24	18-Dec-24			DS3270: FS				
DS3290	Approval of SCT Plan for Detection System	24	14-Oct-24	09-Nov-24	19-Dec-24	17-Jan-25			DS3280: FS, SC2110: FF				
Manual Fallback Control System		61	01-Aug-24	15-Oct-24	09-Nov-24	14-Mar-25	06-Jul-24						
DS3300	Submission of Manual Fallback Control System SCT Plan	24	01-Aug-24	02-Aug-24	09-Nov-24	11-Nov-24	06-Jul-24		DS4790: FS				
DS3310	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	03-Aug-24	30-Aug-24	31-Dec-24	28-Jan-25			DS3300: FS				
DS3320	Resubmission of SCT Plan for Manual Fallback Control System	12	31-Aug-24	13-Sep-24	01-Feb-25	14-Feb-25			DS3310: FS				
DS3330	Approval of SCT Plan for Manual Fallback Control System	24	14-Sep-24	15-Oct-24	15-Feb-25	14-Mar-25			DS3320: FS, SC2250: FF				
Operation Facility		24	25-Oct-24	21-Nov-24	30-Nov-24	28-Dec-24							
DS3340	Submission of Operation Facility SCT Plan	24	25-Oct-24	21-Nov-24	30-Nov-24	28-Dec-24			DS4630: FS, EM1120: FS, DS8410: FS, DS7300: FS				
Speed Enforcement System		84	01-Aug-24	09-Nov-24	30-Nov-24	22-Mar-25							
DS3380	Submission of Speed Enforcement System SCT Plan	24	01-Aug-24	28-Aug-24	30-Nov-24	28-Dec-24			EM1130: FS				
DS3390	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Aug-24	26-Sep-24	09-Jan-25	08-Feb-25			DS3380: FS				
DS3400	Resubmission of SCT Plan for Speed Enforcement System	12	27-Sep-24	12-Oct-24	10-Feb-25	22-Feb-25			DS3390: FS				
DS3410	Approval of SCT Plan for Speed Enforcement System	24	14-Oct-24	09-Nov-24	24-Feb-25	22-Mar-25			DS3400: FS, SC2370: FF				
Power Distribution System		60	31-Aug-24	12-Nov-24	13-Aug-24	24-Oct-24							

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										Jul 31	Aug 32	Sep 33	Oct 34
DS3420	Submission of Power Distribution System SCT Plan	24	31-Aug-24	28-Sep-24	13-Aug-24	09-Sep-24			EM1620: FS, DS2592: FS				
DS3430	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Sep-24	29-Oct-24	10-Sep-24	09-Oct-24			DS3420: FS				
DS3440	Resubmission of SCT Plan for Power Distribution System	12	30-Oct-24	12-Nov-24	10-Oct-24	24-Oct-24			DS3430: FS				
Government Optical Fibre System		60	31-Aug-24	12-Nov-24	16-Jan-25	29-Mar-25							
DS3460	Submission of Government Optical Fibre System SCT Plan	24	31-Aug-24	28-Sep-24	16-Jan-25	15-Feb-25			EM1630: FS				
DS3470	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Sep-24	29-Oct-24	17-Feb-25	15-Mar-25			DS3460: FS				
DS3480	Resubmission of SCT Plan for Government Optical Fibre System	12	30-Oct-24	12-Nov-24	17-Mar-25	29-Mar-25			DS3470: FS				
SAT Plan Submissions		96	03-Aug-24	26-Nov-24	07-Nov-24	13-Jun-25							
Central System		78	03-Aug-24	05-Nov-24	07-Jan-25	11-Apr-25							
DS3500	Submission of Central System SAT Plan	18	03-Aug-24	23-Aug-24	07-Jan-25	27-Jan-25			DS2940: FS				
DS3510	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	24-Aug-24	21-Sep-24	28-Jan-25	27-Feb-25			DS3500: FS				
DS3520	Resubmission of SAT Plan for Central System	12	23-Sep-24	07-Oct-24	28-Feb-25	13-Mar-25			DS3510: FS				
DS3530	Approval of SAT Plan for Central System	24	08-Oct-24	05-Nov-24	14-Mar-25	11-Apr-25			DS3520: FS, SC1090: FF				
Traffic Control Devices		48	30-Sep-24	26-Nov-24	30-Dec-24	27-Feb-25							
DS3540	Submission of Traffic Control Devices System SAT Plan	24	30-Sep-24	29-Oct-24	30-Dec-24	27-Jan-25			DS2980: FS				
DS3550	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Oct-24	26-Nov-24	28-Jan-25	27-Feb-25			DS3540: FS				
Communication System		80	15-Aug-24	19-Nov-24	07-Nov-24	13-Feb-25							
DS3580	Submission of Communication System SAT Plan	20	15-Aug-24	06-Sep-24	07-Nov-24	29-Nov-24			DS3020: SS 12				
DS3590	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	07-Sep-24	07-Oct-24	30-Nov-24	28-Dec-24			DS3580: FS				
DS3600	Resubmission of SAT Plan for Communication System	12	08-Oct-24	22-Oct-24	30-Dec-24	13-Jan-25			DS3590: FS				
DS3610	Approval of SAT Plan for Communication System	24	23-Oct-24	19-Nov-24	14-Jan-25	13-Feb-25			DS3600: FS, SC1350: FF				
CCTV System		60	20-Aug-24	31-Oct-24	24-Dec-24	08-Mar-25							
DS3620	Submission of CCTV System SAT Plan	24	20-Aug-24	16-Sep-24	24-Dec-24	22-Jan-25			DS3060: FS 24				
DS3630	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	17-Sep-24	17-Oct-24	23-Jan-25	22-Feb-25			DS3620: FS				
DS3640	Resubmission of SAT Plan for CCTV System	12	18-Oct-24	31-Oct-24	24-Feb-25	08-Mar-25			DS3630: FS				
PABX System		48	23-Sep-24	19-Nov-24	16-Apr-25	13-Jun-25							
DS3660	Submission of PABX System SAT Plan	24	23-Sep-24	22-Oct-24	16-Apr-25	15-May-25			DS3100: FS 48				
DS3670	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	23-Oct-24	19-Nov-24	16-May-25	13-Jun-25			DS3660: FS				
ET System		24	14-Oct-24	09-Nov-24	23-Jan-25	22-Feb-25							
DS3700	Submission of ET System SAT Plan	24	14-Oct-24	09-Nov-24	23-Jan-25	22-Feb-25			DS3140: FS 36				
PA System		48	05-Sep-24	02-Nov-24	01-Apr-25	29-May-25							
DS3740	Submission of PA System SAT Plan	24	05-Sep-24	04-Oct-24	01-Apr-25	29-Apr-25			DS3180: FS 48				
DS3750	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	05-Oct-24	02-Nov-24	30-Apr-25	29-May-25			DS3740: FS				
Radio System		24	28-Oct-24	23-Nov-24	23-Jan-25	22-Feb-25							
DS3780	Submission of Radio System SAT Plan	24	28-Oct-24	23-Nov-24	23-Jan-25	22-Feb-25			DS3220: FS 48				
Manual Fallback Control System		84	03-Aug-24	12-Nov-24	12-Nov-24	22-Feb-25							
DS3860	Submission of Manual Fallback Control System SAT Plan	24	03-Aug-24	30-Aug-24	12-Nov-24	09-Dec-24			DS3300: FS				
DS3870	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-Aug-24	28-Sep-24	10-Dec-24	08-Jan-25			DS3860: FS				
DS3880	Resubmission of SAT Plan for Manual Fallback Control System	12	30-Sep-24	15-Oct-24	09-Jan-25	22-Jan-25			DS3870: FS				
DS3890	Approval of SAT Plan for Manual Fallback Control System	24	16-Oct-24	12-Nov-24	23-Jan-25	22-Feb-25			DS3880: FS, SC2270: FF				
Speed Enforcement System		60	29-Aug-24	09-Nov-24	30-Dec-24	13-Mar-25							
DS3940	Submission of Speed Enforcement System Reliability Test Plan	24	29-Aug-24	26-Sep-24	30-Dec-24	27-Jan-25			DS3380: FS				
DS3950	Comment on Reliability Test Plan/ Workshops (System Briefing & Comment Discussion)	24	27-Sep-24	26-Oct-24	28-Jan-25	27-Feb-25			DS3940: FS				
DS3960	Resubmission of Reliability Test Plan for Speed Enforcement System	12	28-Oct-24	09-Nov-24	28-Feb-25	13-Mar-25			DS3950: FS				

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Jul 31	Aug 32	Sep 33	Oct 34
Training Document & O&M Manual Submission for T2/TKOLTT TCSS		65	20-Sep-24	06-Dec-24	05-Aug-25	21-Oct-25							
DS3980	Submit Document for System Description	6	20-Sep-24	26-Sep-24	05-Aug-25	11-Aug-25			DS3580: SS 30				
DS4010	Submit System Administration Manual	11	27-Sep-24	10-Oct-24	12-Aug-25	23-Aug-25			DS3980: FS				
DS4020	Submit Training Manual	48	12-Oct-24	06-Dec-24	25-Aug-25	21-Oct-25			DS4010: FS				
Site Installation and Testing & Commissioning		242	01-Aug-24	20-Feb-25	06-Jun-24	02-Feb-27	01-Apr-24						
Installation & Testing Related to Stage 2 of Works		167	01-Aug-24	20-Feb-25	13-Jul-24	02-Feb-27							
Installation		167	01-Aug-24	20-Feb-25	13-Jul-24	02-Feb-27							
Portion 4 - TKO-LTT (LT Interchange)		48	15-Oct-24	09-Dec-24	13-Jul-24	03-Feb-25							
SW1930	Install Cable Containments	48	15-Oct-24	09-Dec-24	13-Jul-24	06-Sep-24			DS6404: FS, DS6540: FS, SW1030: FS				
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				
Portion 1 - South Apron Up to SUS		66	05-Sep-24	23-Nov-24	18-Jul-24	04-Oct-24							
SW2000	Install Cable Containments - the 1st Section	48	05-Sep-24	02-Nov-24	18-Jul-24	11-Sep-24			SW1220: FS, SC2480: FF, DS6404: FS, DS6540: FS				
SW2010	Install CCTV Camera	24	28-Oct-24	23-Nov-24	05-Sep-24	04-Oct-24			SW2000: SS 42, SC1470: FF, DS4090: FS, DS6440: FS				
Portion 2 - Tunnel Section, Service Gallery, WVB & EVB		163	06-Aug-24	20-Feb-25	27-Aug-24	02-Feb-27							
SW2080	Install Cable Containments	105	06-Aug-24	09-Dec-24	27-Aug-24	02-Feb-27			SW2300: SS, SW2400: SS, SW2510: SS, SW2600: SS, SW2720: SS				
SW2090	Install CCTV Camera	96	14-Sep-24	09-Jan-25	17-Oct-24	02-Feb-27			SW2310: SS, SW2430: SS, SW2550: SS, SW2640: SS, SW2760: SS				
SW2120	Signal Cable Laying	124	21-Sep-24	20-Feb-25	13-Nov-24	02-Feb-27			SW2500: SS, SW2710: SS, SW2790: SS				
SW2100	Install ET	90	30-Sep-24	16-Jan-25	24-Feb-25	02-Feb-27			SW2340: SS, SW2480: SS, SW2590: SS, SW2680: SS, SW2820: SS				
SW2110	Install Radio System in Service Gallery	86	14-Oct-24	23-Jan-25	24-Oct-24	02-Feb-27			SW2390: SS, SW2470: SS, SW2570: SS, SW2660: SS, SW2800: SS				
Portion 3 - CKL Branch Tunnel in TKO-LTT Site		83	13-Aug-24	20-Nov-24	07-Feb-25	22-Apr-25							
SW2230	Install Cable Containments	36	13-Aug-24	24-Sep-24	13-Feb-25	26-Mar-25			SW1860: FS, SC2480: FF, DS6404: FS, DS6540: FS				
SW2220	Install CCTV Camera	29	27-Aug-24	30-Sep-24	07-Feb-25	12-Mar-25			SW1860: SS 12, SC1470: FF, DS4090: FS, DS6440: FS				
SW2250	Signal Cable Laying	36	02-Oct-24	13-Nov-24	11-Mar-25	22-Apr-25			SW2230: SS 18, SW1900: FF, SW2220: SS 6, SW1880: SS 6				
SW2240	Laying of Leaky Cable	36	09-Oct-24	20-Nov-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	01-Aug-24	04-Sep-24	26-Apr-25	03-Jun-25							
SW2260	Install Cable Containment	14	01-Aug-24	16-Aug-24	26-Apr-25	14-May-25			AC1040: SS, SC2480: FF, DS6404: FS, DS6540: FS				
SW2280	Laying of Leaky Cable	30	01-Aug-24	04-Sep-24	26-Apr-25	03-Jun-25			SW2260: SS				
SW2290	Laying of Power Cable From TCSS Cabinet in T2 Area	14	09-Aug-24	24-Aug-24	17-May-25	03-Jun-25			SW2260: SS 7				
SW2270	Install YAGI Antenna	7	17-Aug-24	24-Aug-24	26-May-25	03-Jun-25			SW2260: FS				
Portion 4 - TKO-LTT (LT Interchange)		78	06-Sep-24	09-Dec-24	06-Jun-24	27-Dec-24							
SW1020	Inspect Civil Provisions & Submit Inspection Report	12	06-Sep-24	20-Sep-24	06-Jun-24	20-Jun-24			AC1030: SS 36, DS6600: FS, DS6680: FS, DS6760: FS, DS6840: FS				
SW1030	Rectify Civil Provision Defects by Others	18	21-Sep-24	14-Oct-24	21-Jun-24	12-Jul-24			SW1020: FS				
Installation Works		48	15-Oct-24	09-Dec-24	13-Jul-24	27-Dec-24							
SW1040	Install Cable Containments	48	15-Oct-24	09-Dec-24	13-Jul-24	06-Sep-24			DS6400: FS, DS6540: FS, SW1030: FS				
SW1050	Install Equipment Racks	24	15-Oct-24	11-Nov-24	23-Sep-24	22-Oct-24			SW1030: FS				

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Jul 31	Aug 32	Sep 33	Oct 34
SW1130	Install VLSL on Gantry	14	15-Oct-24	30-Oct-24	08-Nov-24	23-Nov-24			SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS, SW1040: SS				
SW1140	Install PVMS on Gantry	14	15-Oct-24	30-Oct-24	11-Dec-24	27-Dec-24			SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS, SW1040: SS				
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	29-Oct-24	09-Dec-24	25-Sep-24	07-Nov-24			SW1040: SS 12, SW1930: SS 12, DS4490: FS, DS6440: FS, DS7500: FS				
Portion 1 - South Apron Up to SUS		96	01-Aug-24	23-Nov-24	12-Jun-24	04-Oct-24							
SW1210	Inspect Civil Provisions & Submit Inspection Report	12	01-Aug-24	14-Aug-24	12-Jun-24	25-Jun-24			AC1000: SS				
SW1220	Rectify Civil Provision Defects by Others	18	15-Aug-24	04-Sep-24	26-Jun-24	17-Jul-24			SW1210: FS				
Installation Works		66	05-Sep-24	23-Nov-24	18-Jul-24	04-Oct-24							
SW1230	Install Cable Containments - the 1st Section	48	05-Sep-24	02-Nov-24	18-Jul-24	11-Sep-24			SW1220: FS, SC2480: FF, DS6404: FS, DS6540: FS				
SW1250	Install Detection Cameras	24	24-Sep-24	23-Oct-24	05-Sep-24	04-Oct-24			SW1230: SS 12, SW2000: SS 12, DS4490: FS, DS6440: FS, DS7500: FS				
SW1240	Install CCTV Camera	24	28-Oct-24	23-Nov-24	05-Sep-24	04-Oct-24			SW1230: SS 42, SC1470: FF, DS4090: FS, DS6440: FS				
Portion 2 - Tunnel Section, Service Gallery, WVB & EVB		173	01-Aug-24	26-Nov-24	22-Aug-24	02-Feb-27	01-Apr-24						
Tunnel Section		88	01-Aug-24	14-Nov-24	22-Aug-24	28-Apr-25	26-Jul-24						
Tunnel Section - CH 6+568 to CH 7+100		84	01-Aug-24	09-Nov-24	22-Aug-24	22-Mar-25	26-Jul-24						
SW2860	Inspect Civil Provisions & Submit Inspection Report	3					26-Jul-24	29-Jul-24	AC1050: SS				
SW2870	Rectify Civil Provision Defects by Others	6	01-Aug-24	05-Aug-24	22-Aug-24	26-Aug-24	30-Jul-24		SW2860: FS				
Installation Works		80	06-Aug-24	09-Nov-24	27-Aug-24	22-Mar-25							
SW2300	Install Cable Containment	72	06-Aug-24	31-Oct-24	27-Aug-24	21-Nov-24			SC2480: FF, DS6540: FS, SW2870: FS				
SW2370	Install PA in Service Gallery	24	27-Aug-24	24-Sep-24	24-Dec-24	22-Jan-25			SW2300: SS 12, DS4240: FS, DS6480: FS, DS6120: FS				
SW2360	Install VLSL	18	31-Aug-24	21-Sep-24	28-Nov-24	18-Dec-24			SW2300: SS 18, SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS				
SW2380	Install PABX in Service Gallery	24	10-Sep-24	09-Oct-24	09-Jan-25	08-Feb-25			SW2370: SS 12, DS4140: FS, DS6040: FS, DS6480: FS				
SW2310	Install CCTV Camera	18	14-Sep-24	07-Oct-24	12-Dec-24	03-Jan-25			SW2360: SS 12, SC1470: FF, DS4090: FS, DS6440: FS				
SW2320	Install Detection Camera	18	30-Sep-24	22-Oct-24	27-Dec-24	17-Jan-25			SW2310: SS 12, SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS				
SW2390	Install Radio System in Service Gallery	24	14-Oct-24	09-Nov-24	10-Feb-25	08-Mar-25			SW2380: FS, DS4390: FS, DS6160: FS, DS6520: FS				
SW2330	Install SEC Camera	18	16-Oct-24	05-Nov-24	03-Mar-25	22-Mar-25			SW2320: SS 12, DS6320: FS, EM1130: FS, DS7410: FS				
Tunnel Section - CH 7+100 to CH 7+600		84	01-Aug-24	09-Nov-24	22-Aug-24	08-Mar-25	26-Jul-24						
SW2880	Inspect Civil Provisions & Submit Inspection Report	3					26-Jul-24	29-Jul-24	AC1060: SS				
SW2890	Rectify Civil Provision Defects by Others	6	01-Aug-24	05-Aug-24	22-Aug-24	26-Aug-24	30-Jul-24		SW2880: FS				
Installation Works		80	06-Aug-24	09-Nov-24	27-Aug-24	08-Mar-25							
SW2400	Install Cable Containment	72	06-Aug-24	31-Oct-24	27-Aug-24	21-Nov-24			SC2480: FF, SW2890: FS, DS6404: FS, DS6540: FS				
SW2410	Install PA in Service Gallery	24	27-Aug-24	24-Sep-24	24-Sep-24	23-Oct-24			SW2400: SS 12, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS				
SW2420	Install VLSL	18	31-Aug-24	21-Sep-24	02-Oct-24	23-Oct-24			SW2400: SS 18, SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS				



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Jul 31	Aug 32	Sep 33	Oct 34
SW2460	Install Traffic Control Devices	24	31-Aug-24	28-Sep-24	23-Jan-25	22-Feb-25			SW2400: SS 18, SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS				
SW2440	Install PABX in Service Gallery	24	10-Sep-24	09-Oct-24	09-Oct-24	06-Nov-24			SW2410: SS 12, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS				
SW2430	Install CCTV Camera	18	14-Sep-24	07-Oct-24	17-Oct-24	06-Nov-24			SW2420: SS 12, SC1470: FF, DS4090: FS, DS6440: FS				
SW2450	Install Detection Camera	18	30-Sep-24	22-Oct-24	31-Oct-24	20-Nov-24			SW2430: SS 12, SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS				
SW2480	Install ET	12	30-Sep-24	15-Oct-24	24-Feb-25	08-Mar-25			SW2460: FS, SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS				
SW2470	Install Radio System in Service Gallery	24	14-Oct-24	09-Nov-24	24-Oct-24	20-Nov-24			SW2440: SS 12, SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS				
Tunnel Section - CH 7+600 to CH 8+100		84	01-Aug-24	09-Nov-24	22-Aug-24	08-Mar-25	26-Jul-24						
SW2900	Inspect Civil Provisions & Submit Inspection Report	3					26-Jul-24	29-Jul-24	AC1070: SS				
SW2910	Rectify Civil Provision Defects by Others	6	01-Aug-24	05-Aug-24	22-Aug-24	26-Aug-24	30-Jul-24		SW2900: FS				
Installation Works		80	06-Aug-24	09-Nov-24	27-Aug-24	08-Mar-25							
SW2510	Install Cable Containment	72	06-Aug-24	31-Oct-24	27-Aug-24	21-Nov-24			SC2480: FF, EM1620: FF, SW2910: FS, DS6404: FS, DS6540: FS				
SW2530	Install PA in Service Gallery	24	27-Aug-24	24-Sep-24	16-Jan-25	15-Feb-25			SW2510: SS 12, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS				
SW2520	Install VLS	18	31-Aug-24	21-Sep-24	28-Nov-24	18-Dec-24			SW2510: SS 12, SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS				
SW2540	Install Traffic Control Devices	24	31-Aug-24	28-Sep-24	23-Jan-25	22-Feb-25			SW2510: SS 18, SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS				
SW2560	Install PABX in Service Gallery	24	10-Sep-24	09-Oct-24	03-Feb-25	01-Mar-25			SW2530: SS 12, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS				
SW2550	Install CCTV Camera	18	14-Sep-24	07-Oct-24	12-Dec-24	03-Jan-25			SW2520: SS 12, SC1470: FF, DS4090: FS, DS6440: FS				
SW2580	Install Detection Camera	18	30-Sep-24	22-Oct-24	27-Dec-24	17-Jan-25			SW2550: SS 12, SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS				
SW2590	Install ET	12	30-Sep-24	15-Oct-24	24-Feb-25	08-Mar-25			SW2540: FS, SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS				
SW2570	Install Radio System in Service Gallery	24	14-Oct-24	09-Nov-24	10-Feb-25	08-Mar-25			SW2560: SS 6, SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS				
Tunnel Section - CH 8+100 to CH 8+750		78	13-Aug-24	14-Nov-24	04-Oct-24	28-Apr-25							
SW2920	Inspect Civil Provisions & Submit Inspection Report	3	13-Aug-24	15-Aug-24	04-Oct-24	07-Oct-24			AC1080: SS				
SW2930	Rectify Civil Provision Defects by Others	6	16-Aug-24	22-Aug-24	08-Oct-24	15-Oct-24			SW2920: FS				
Installation Works		69	23-Aug-24	14-Nov-24	16-Oct-24	28-Apr-25							
SW2600	Install Cable Containment	24	23-Aug-24	20-Sep-24	16-Oct-24	12-Nov-24			SC2480: FF, SW2930: FS, DS6404: FS, DS6540: FS				
SW2610	Install VLS	18	06-Sep-24	27-Sep-24	28-Nov-24	18-Dec-24			SW2600: SS 12, SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS				
SW2620	Install PA in Service Gallery	24	06-Sep-24	05-Oct-24	16-Jan-25	15-Feb-25			SW2600: SS 12, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS				



■ Remaining Work ◆ Milestone
■ Actual Work
■ Critical Activity

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

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Jul 31	Aug 32	Sep 33	Oct 34
SW2630	Install Traffic Control Devices	24	13-Sep-24	14-Oct-24	23-Jan-25	22-Feb-25			SW2600: SS 18, SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS				
SW2640	Install CCTV Camera	18	21-Sep-24	14-Oct-24	12-Dec-24	03-Jan-25			SW2610: SS 12, SC1470: FF, DS4090: FS, DS6440: FS				
SW2650	Install PABX in Service Gallery	24	21-Sep-24	21-Oct-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	21-Sep-24	14-Nov-24	06-Mar-25	28-Apr-25			SW2600: FS, SC2570: FF, DS8500: FS				
SW2710	Signal Cable Laying and Termination (CH 7+600 to CH 8+750)	45	21-Sep-24	14-Nov-24	13-Nov-24	06-Jan-25			SW2600: FS, SC2480: FF				
SW2670	Install Detection Camera	18	07-Oct-24	28-Oct-24	27-Dec-24	17-Jan-25			SW2640: SS 12, SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS				
SW2660	Install Radio System in Service Gallery	24	14-Oct-24	09-Nov-24	10-Feb-25	08-Mar-25			SW2650: SS 6, SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS				
SW2680	Install ET	12	15-Oct-24	28-Oct-24	24-Feb-25	08-Mar-25			SW2630: FS, SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS				
SW2690	Install SEC Camera	18	22-Oct-24	11-Nov-24	03-Mar-25	22-Mar-25			SW2670: SS 12, SC2390: FF, EM1130: FS, DS6320: FS, DS7410: FS				
West Ventilation Building		173	01-Aug-24	26-Nov-24	17-Dec-24	15-Mar-25	01-Apr-24						
Installation Works		173	01-Aug-24	26-Nov-24	17-Dec-24	15-Mar-25	01-Apr-24						
SW1650	Install Cable Containments	24	01-Aug-24	26-Oct-24	17-Dec-24	15-Mar-25	01-Apr-24		SC2480: FF, DS6400: FS, DS6540: FS				
SW1660	Position Equipment Rack	13	12-Aug-24	26-Aug-24	17-Dec-24	02-Jan-25			SW1650: SS 10, DS4640: FS 13				
SW1670	Install Network Equipment	36	27-Aug-24	09-Oct-24	03-Jan-25	17-Feb-25			SW1660: FS, SC1330: FF, DS4340: FS, DS4440: FS				
SW1690	Install PABX Equipment	20	27-Aug-24	19-Sep-24	26-Dec-24	18-Jan-25			SW1650: SS 18, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS				
SW1710	Install Radio Equipment	12	14-Oct-24	26-Oct-24	20-Jan-25	05-Feb-25			SW1690: FS, SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS				
SW1700	Install Operation Facilities Equipment	14	25-Oct-24	09-Nov-24	18-Feb-25	05-Mar-25			SW1670: FS, EM1120: FS, SC2680: FF, DS6280: FS				
SW1720	Install PA Equipment	12	28-Oct-24	09-Nov-24	06-Feb-25	19-Feb-25			SW1710: FS, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: 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				
East Ventilation Building		98	01-Aug-24	26-Nov-24	20-Nov-24	02-Feb-27							
SW2960	Inspect Civil Provisions & Submit Inspection Report	12	01-Aug-24	14-Aug-24	29-Dec-26	12-Jan-27			AC1010: SS, KD1010: FS				
SW2970	Rectify Civil Provision Defects by Others	18	15-Aug-24	04-Sep-24	13-Jan-27	02-Feb-27			SW2960: FS				
Installation Works		98	01-Aug-24	26-Nov-24	20-Nov-24	05-Mar-25							
SW1750	Install Cable Containments	24	01-Aug-24	28-Aug-24	20-Nov-24	17-Dec-24			SC2480: FF, DS6400: FS, DS6540: FS				
SW1790	Install PABX Equipment	20	27-Aug-24	19-Sep-24	26-Dec-24	18-Jan-25			SW1750: SS 18, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS				
SW1760	Position Equipment Rack	12	29-Aug-24	11-Sep-24	18-Dec-24	02-Jan-25			SW1750: FS				
SW1770	Install Network Equipment	36	12-Sep-24	26-Oct-24	03-Jan-25	17-Feb-25			SW1760: FS, SC1330: FF, DS4340: FS, DS4440: FS				
SW1810	Install Radio Equipment	12	14-Oct-24	26-Oct-24	20-Jan-25	05-Feb-25			SW1790: FS, SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS				



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Jul 31	Aug 32	Sep 33	Oct 34
SW1800	Install Operation Facilities Equipment	14	28-Oct-24	12-Nov-24	18-Feb-25	05-Mar-25			SW1770: FS, EM1120: FS, SC2680: FF, DS6280: FS				
SW1820	Install PA Equipment	12	28-Oct-24	09-Nov-24	06-Feb-25	19-Feb-25			SW1810: FS, SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS				
SW1780	Install Manual Fallback Control Equipment	24	30-Oct-24	26-Nov-24	06-Feb-25	05-Mar-25			SW1770: SS 12, EM1110: FS, SC2240: FF, DS6240: FS, DS7370: FS, DS8310: FS				
Portion 3 - CKL Branch Tunnel in TKO-LTT Site		87	01-Aug-24	13-Nov-24	11-Jan-25	22-Apr-25							
SW1850	Inspect Civil Provisions & Submit Inspection Report	3	01-Aug-24	03-Aug-24	11-Jan-25	14-Jan-25			AC1020: SS				
SW1860	Rectify Civil Provision Defects by Others	7	05-Aug-24	12-Aug-24	15-Jan-25	22-Jan-25			SW1850: FS				
Installation Works		77	13-Aug-24	13-Nov-24	23-Jan-25	22-Apr-25							
SW1890	Install Cable Containments	36	13-Aug-24	24-Sep-24	01-Feb-25	14-Mar-25			SW1860: FS, SC2480: FF, DS6404: FS, DS6540: FS				
SW1870	Install CCTV Camera	29	27-Aug-24	30-Sep-24	23-Jan-25	28-Feb-25			SW1860: FS, SC1470: FF, DS4090: FS, DS6440: FS				
SW1880	Install Detection Camera	29	24-Sep-24	29-Oct-24	07-Feb-25	12-Mar-25			SW1860: FS, SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS				
SW1910	Laying of Leaky Cable	36	27-Sep-24	09-Nov-24	22-Feb-25	04-Apr-25			SW1890: SS 6, SW1870: SS 22, SW1880: SS, SW1900: FF 6				
SW1920	Signal Cable Laying	36	02-Oct-24	13-Nov-24	11-Mar-25	22-Apr-25			SW1890: SS 32, SW1900: FF, SW1870: SS 6, SW1880: SS 6				
SW1900	Install Traffic Control Devices	24	05-Oct-24	02-Nov-24	28-Feb-25	27-Mar-25			SW1870: SS 9, SW1880: SS 9, SW2220: SS 9, SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS				



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

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