

# 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)**

May 2024 - July 2024

(Version 1.0)

Approved By 

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(Environmental Team Leader:  
Mr. KS Lee)

REMARKS:

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

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

**CINOTECH CONSULTANTS LTD**

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

Ref.: CEDKTD2EM00\_0\_0643L.24

13 August 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 (May 2024 to July 2024)**

Reference is made to the Environmental Team's submission of the Quarterly EM&A Summary Report for May 2024 to July 2024 (Version 1) certified by the ET Leader and provided to us via email on 12 August 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 17<sup>th</sup> 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 May 2024 to July 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	May 2024	1. East Bound – Wall & Crown 2. East Ventilation Building – RC Structure, ABWF, E&M 3. West Bound – Bulkhead Construction, OHVD
		June 2024	1. East Ventilation Building RC Structure 2. East Ventilation Building ABWF 3. East Ventilation Building E&M 4. East Bound – Wall & Crown 5. West Bound – OHVD 6. West Bound – Bulkhead Construction
		July 2024	1. East Ventilation Building RC Structure 2. East Ventilation Building ABWF 3. East Ventilation Building E&M 4. East Bound – Wall & Crown 5. West Bound – OHVD 6. West Bound – Bulkhead Construction
ED/2020/03	Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works <sup>(1)</sup>	May 2024 – July 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.

*Landscape and Visual*

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

**Environmental Monitoring Works**

- 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.
- 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	
<b>May 2024</b>					
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
<b>June 2024</b>					
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
<b>July 2024</b>					
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

Parameter	No. of Exceedance		No. of Exceedance due to Construction Activities of this Project		Action Taken
	Action Level	Limit Level	Action Level	Limit Level	
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	0	---	N/A	N/A
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"> <li>• Construction of highway and sub-sea tunnel connecting between Central Kowloon Route and Cha Kwo Ling Tunnel</li> <li>• Western &amp; Eastern Ventilation Buildings</li> </ul>
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 17<sup>th</sup> Quarterly EM&A Summary Report summarizing the EM&A works for the Project in between May 2024 and July 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	Mr. Roy Leung	6628 2685

- 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:

<b>Contract No.</b>	<b>Project Title</b>	<b>Reporting month</b>	<b>Site Activities</b>
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	May 2024	1. East Bound – Wall & Crown 2. East Ventilation Building – RC Structure, ABWF, E&M 3. West Bound – Bulkhead Construction, OHVD
		June 2024	1. East Ventilation Building RC Structure 2. East Ventilation Building ABWF 3. East Ventilation Building E&M 4. East Bound – Wall & Crown 5. West Bound – OHVD 6. West Bound – Bulkhead Construction
		July 2024	1. East Ventilation Building RC Structure 2. East Ventilation Building ABWF 3. East Ventilation Building E&M 4. East Bound – Wall & Crown 5. West Bound – OHVD 6. West Bound – Bulkhead Construction
ED/2020/03	Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works <sup>(1)</sup>	May 2024 – July 2024	N/A

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

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## 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**

<b>Reporting Month</b>	<b>General Weather Conditions</b>
May 2024	Sunny, Cloudy, Fine
June 2024	Sunny, Cloudy, Fine
July 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. No 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

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#### **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 No 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 No environmental complaint on this Project was 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 No environmental complaint was 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.

#### *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.

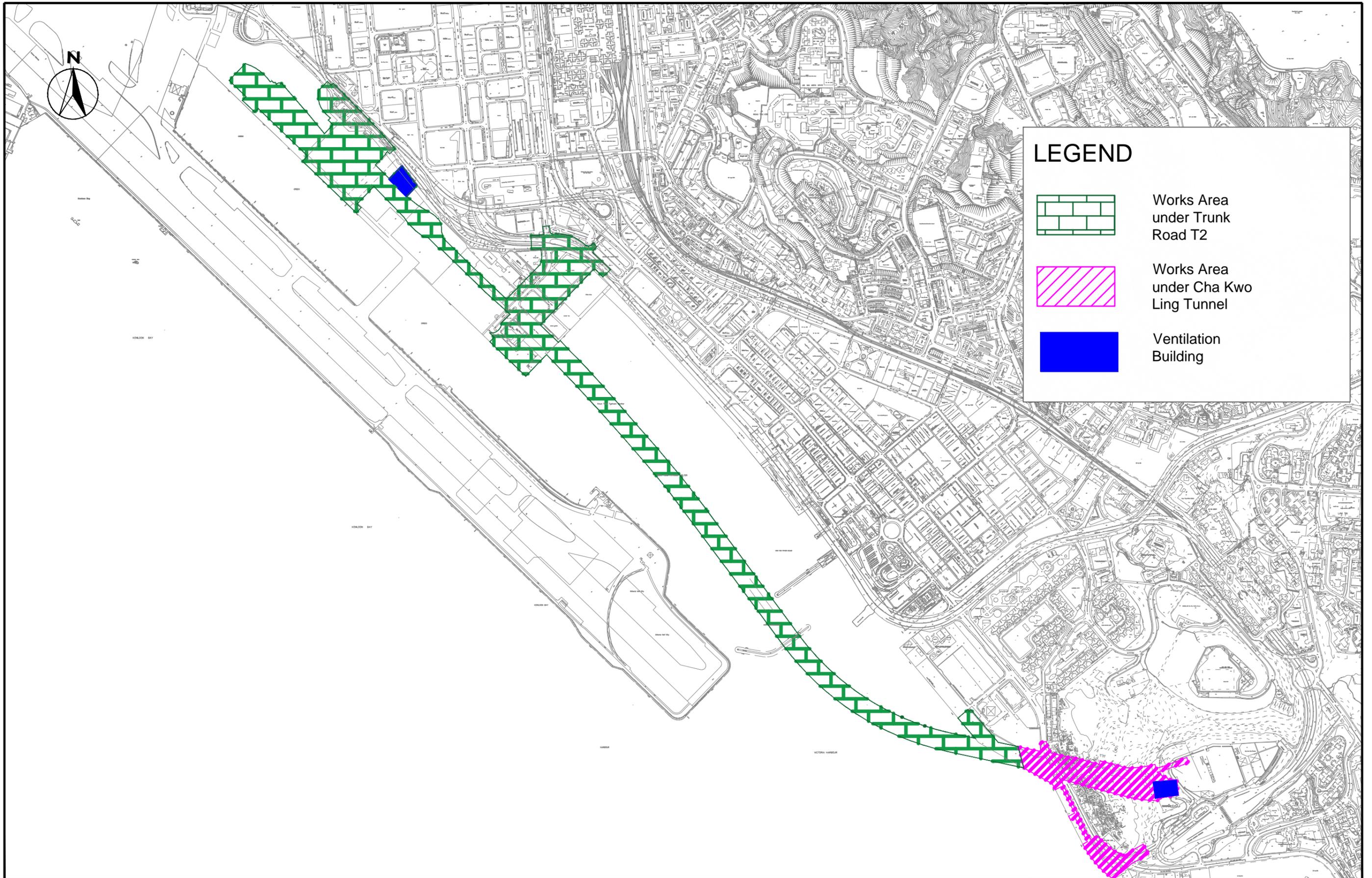
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## FIGURES

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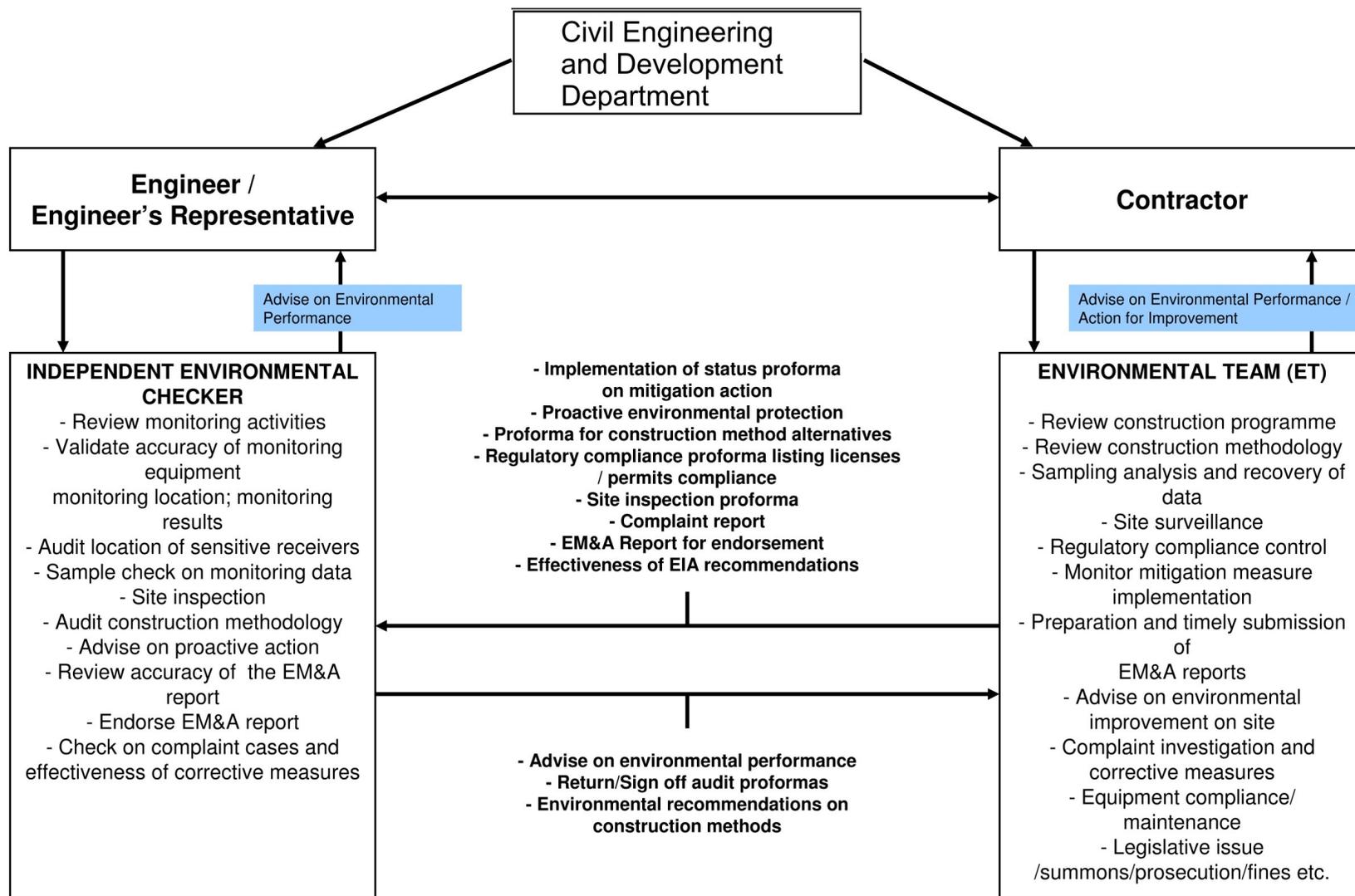
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**LEGEND**

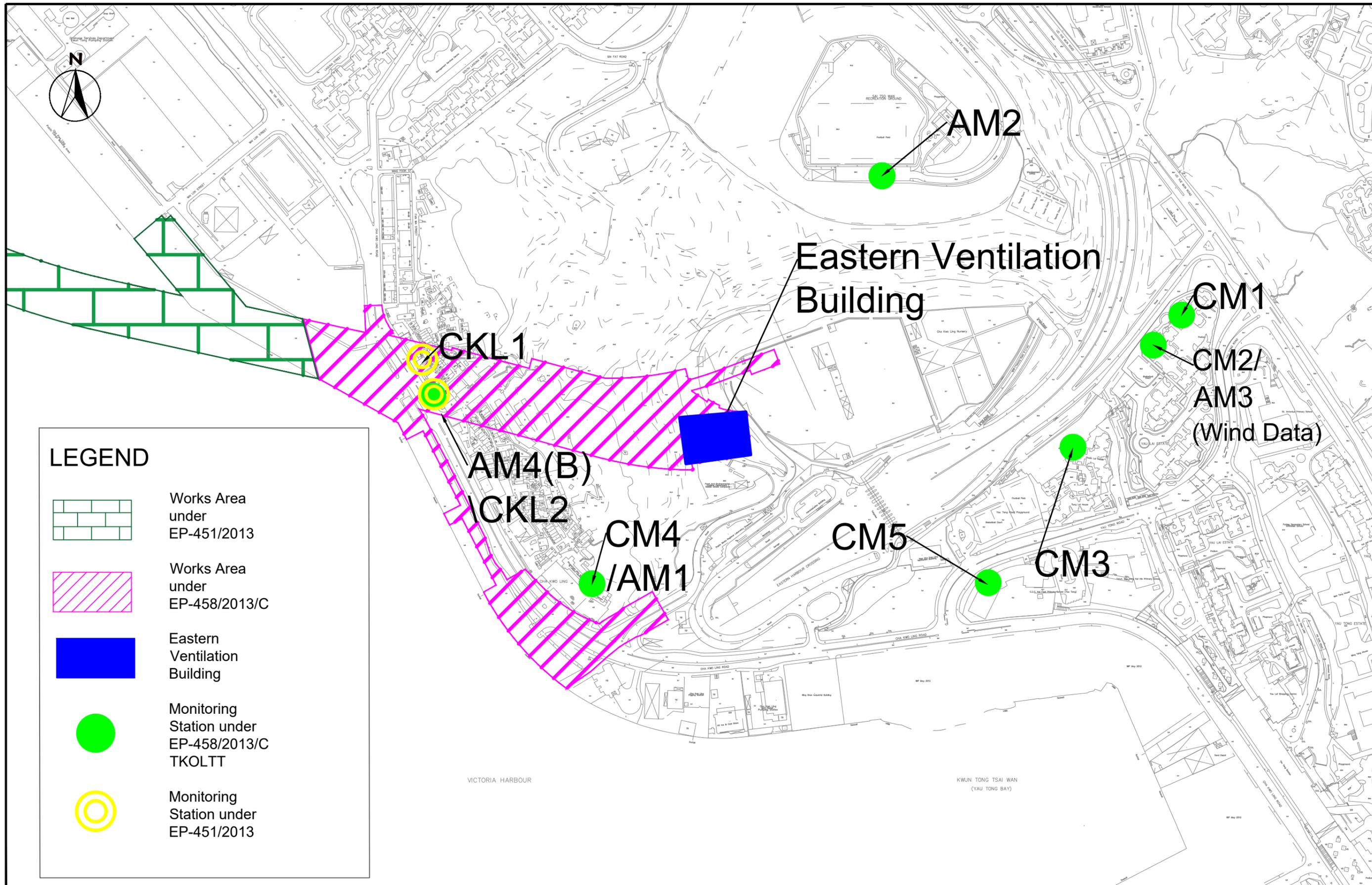
-  Works Area under Trunk Road T2
-  Works Area under Cha Kwo Ling Tunnel
-  Ventilation Building

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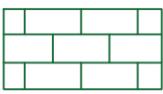
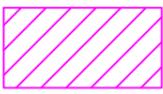


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PROJECT ORGANISATION AND LINES OF COMMUNICATION			© Copyright reserved		Drawing No.		FIGURE 1.2	
Rev.	Description	Date				Rev.		-



**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	-

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**APPENDIX A**  
**MONITORING REQUIREMENTS**

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## 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"> <li>• AM1 – Tin Hau Temple</li> <li>• AM2 – Sai Tso Wan Recreation Ground</li> <li>• AM3 – Yau Lai Estate Bik Lai House</li> <li>• AM4<sup>(1)</sup> – Sitting-out Area at Cha Kwo Ling Village</li> <li>• AM4(B)<sup>(2)(*)(**)</sup> – Flat 103 Cha Kwo Ling Village</li> </ul>	<ul style="list-style-type: none"> <li>• AM1 – Ground Level</li> <li>• AM2 – Ground Level</li> <li>• AM3 – Rooftop (41/F)</li> <li>• AM4<sup>(1)</sup> – Ground Level</li> <li>• AM4(B)<sup>(2)(**)</sup> – Ground Level</li> </ul>
	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 <sub>eq</sub> , L <sub>90</sub> & L <sub>10</sub> at 30 minute intervals during 0700 to 1900 on normal weekdays	Once per week	<ul style="list-style-type: none"> <li>• CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong</li> <li>• CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong</li> <li>• CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong</li> <li>• CM4 – Tin Hau Temple, Cha Kwo Ling</li> <li>• CM5 – CCC Kei Faat Primary School, Yau Tong</li> </ul>	<ul style="list-style-type: none"> <li>• CM1 – Rooftop (41/F)</li> <li>• CM2 – Rooftop (41/F)</li> <li>• CM3 – Rooftop (40/F)</li> <li>• CM4 – Ground Level</li> <li>• CM5 – Rooftop (6/F)</li> </ul>

**Table III –Landfill Gas Monitoring**

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

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**APPENDIX B**  
**ACTION AND LIMIT LEVELS**

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**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) <sup>(1)</sup>

<sup>1</sup> 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%

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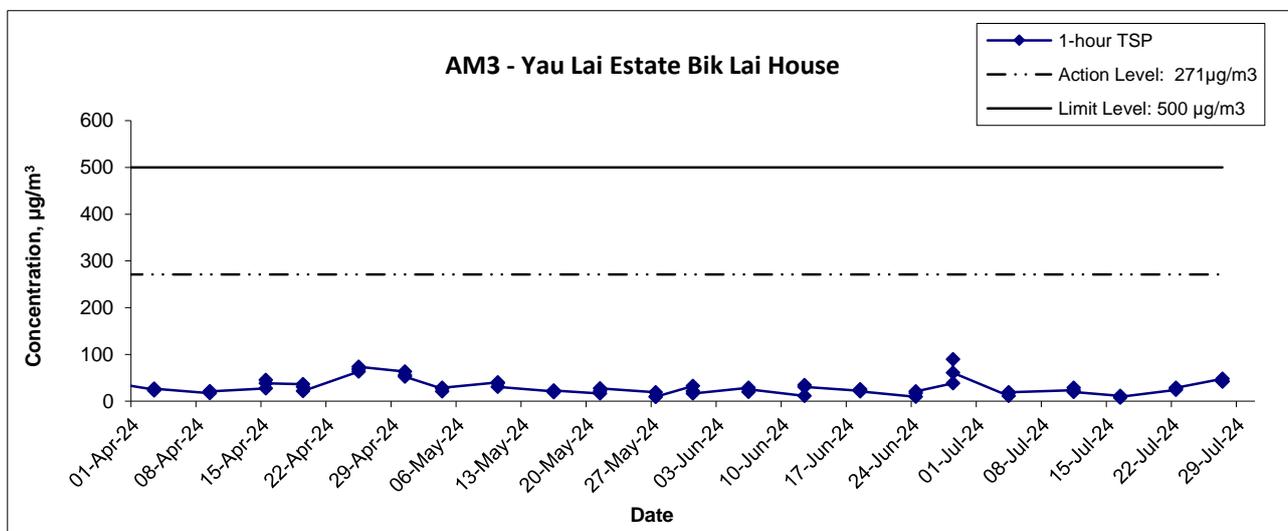
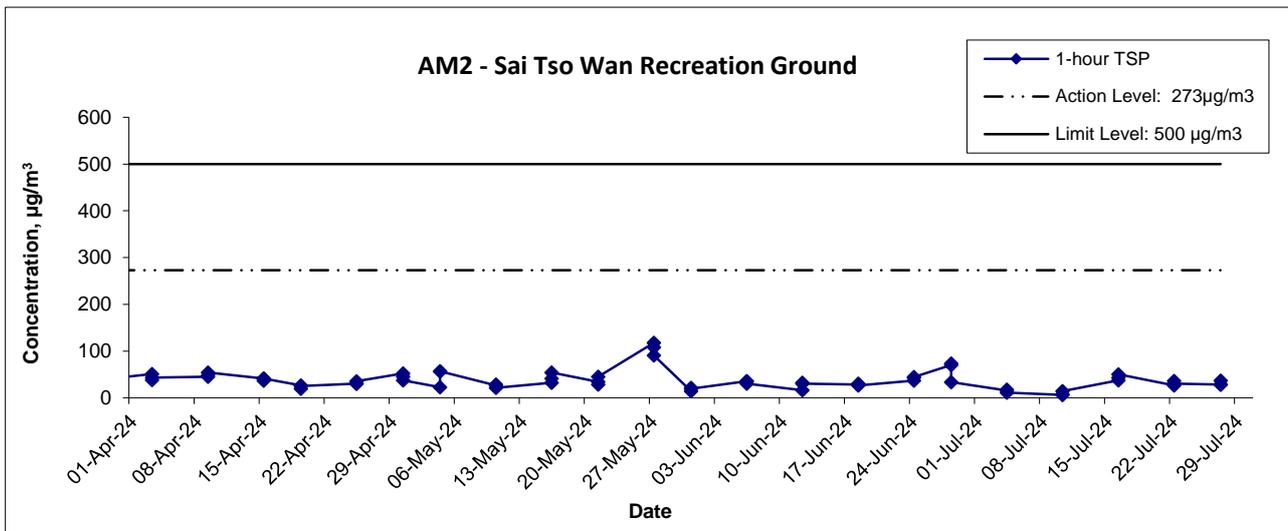
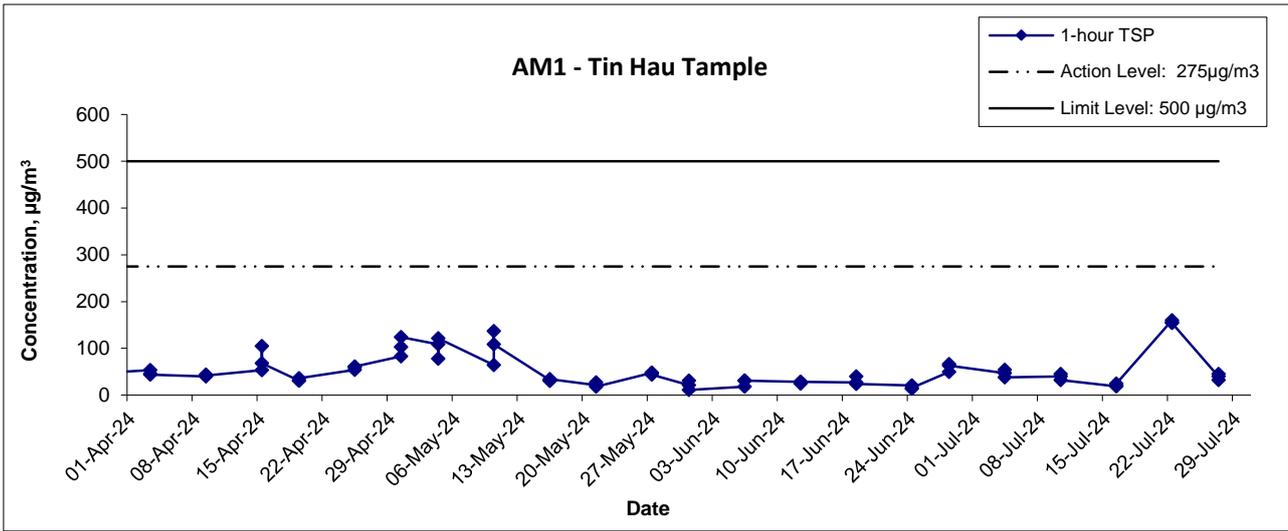
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**APPENDIX C  
GRAPHICAL PRESENTATION OF AIR  
QUALITY MONITORING RESULTS**

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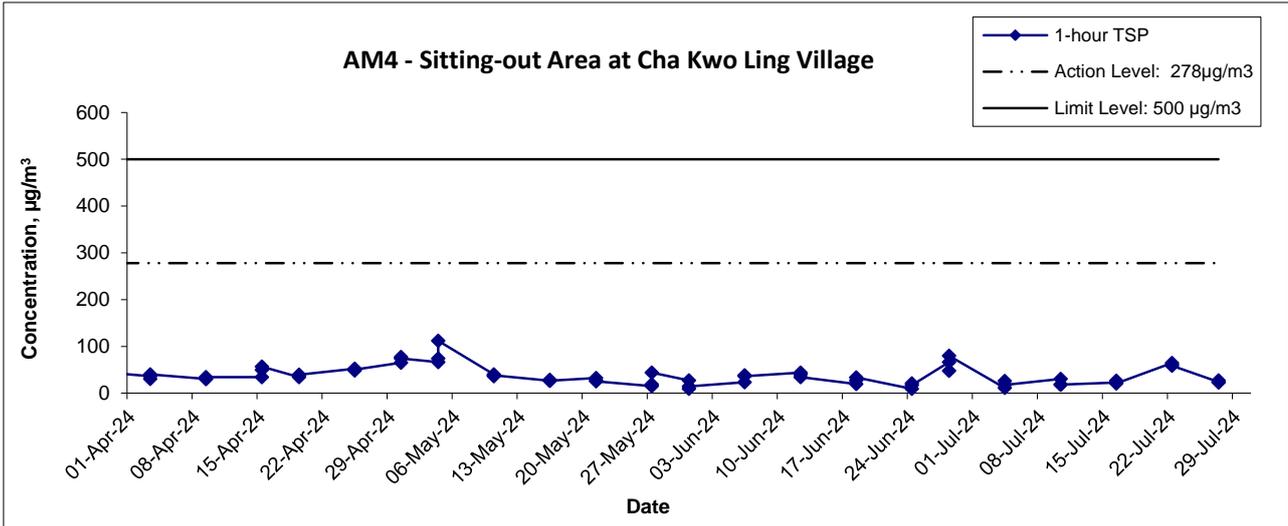
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### 1-hr TSP Concentration Levels



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.	
	Date	Appendix	
	N.T.S	MA20003	
	Jul-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  Graphical Presentation of 1-hour TSP Monitoring Results	Scale	N.T.S	Project No.	MA20003	
	Date	Jul-24	Appendix	C	

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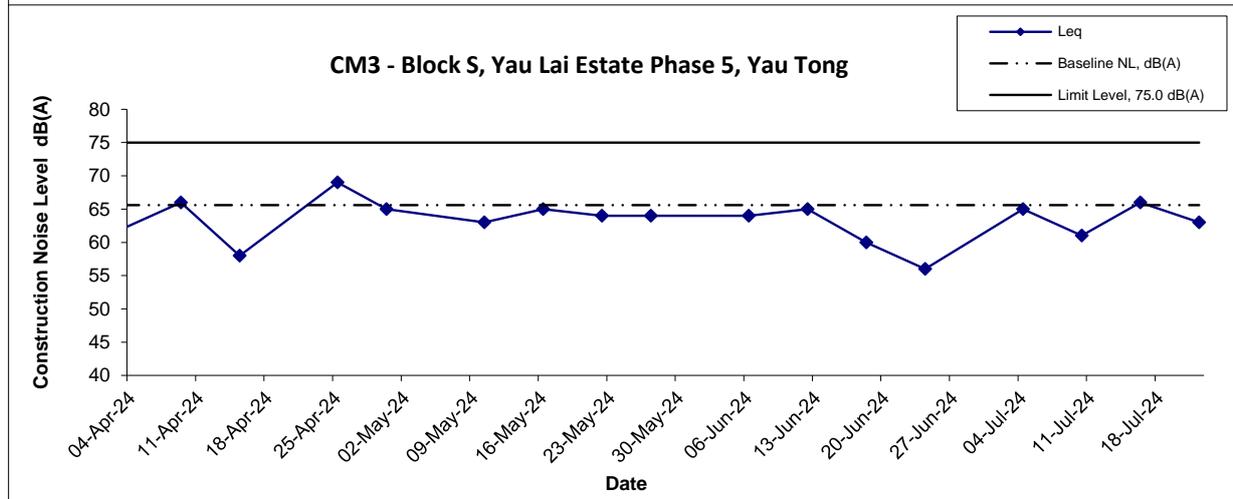
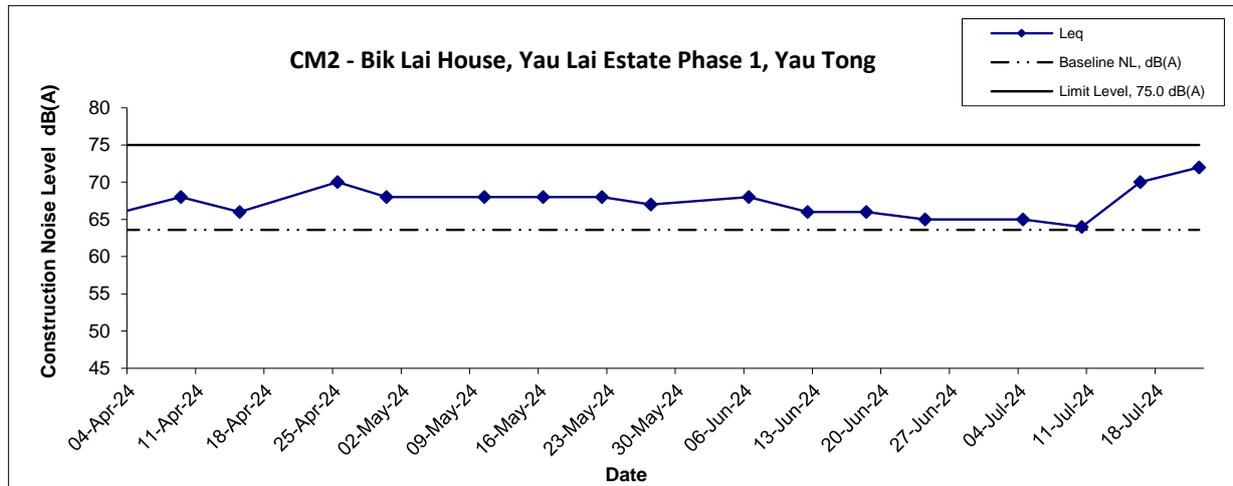
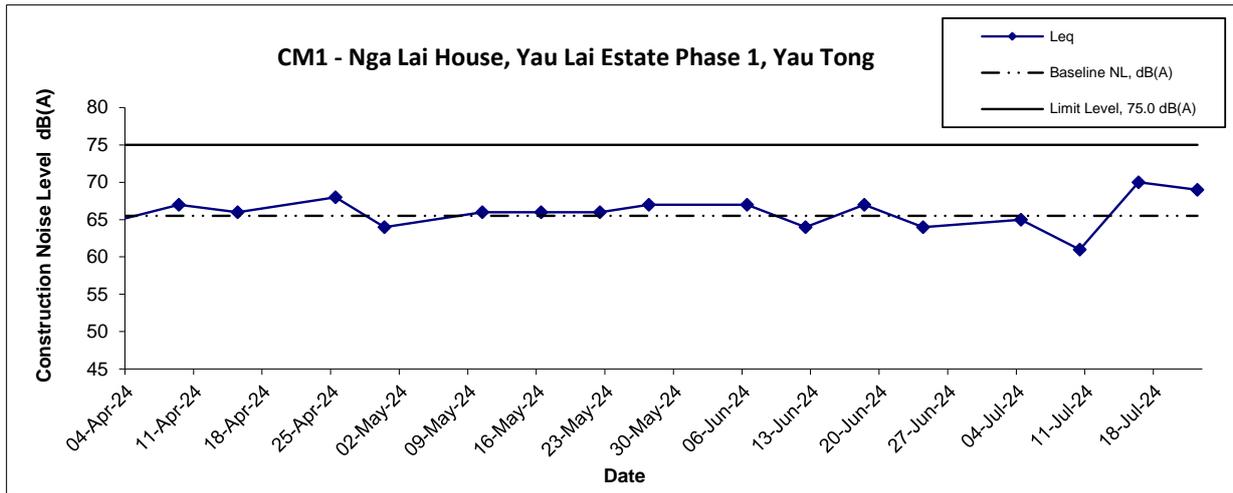
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**APPENDIX D  
GRAPHICAL PRESENTATION OF  
NOISE MONITORING RESULTS**

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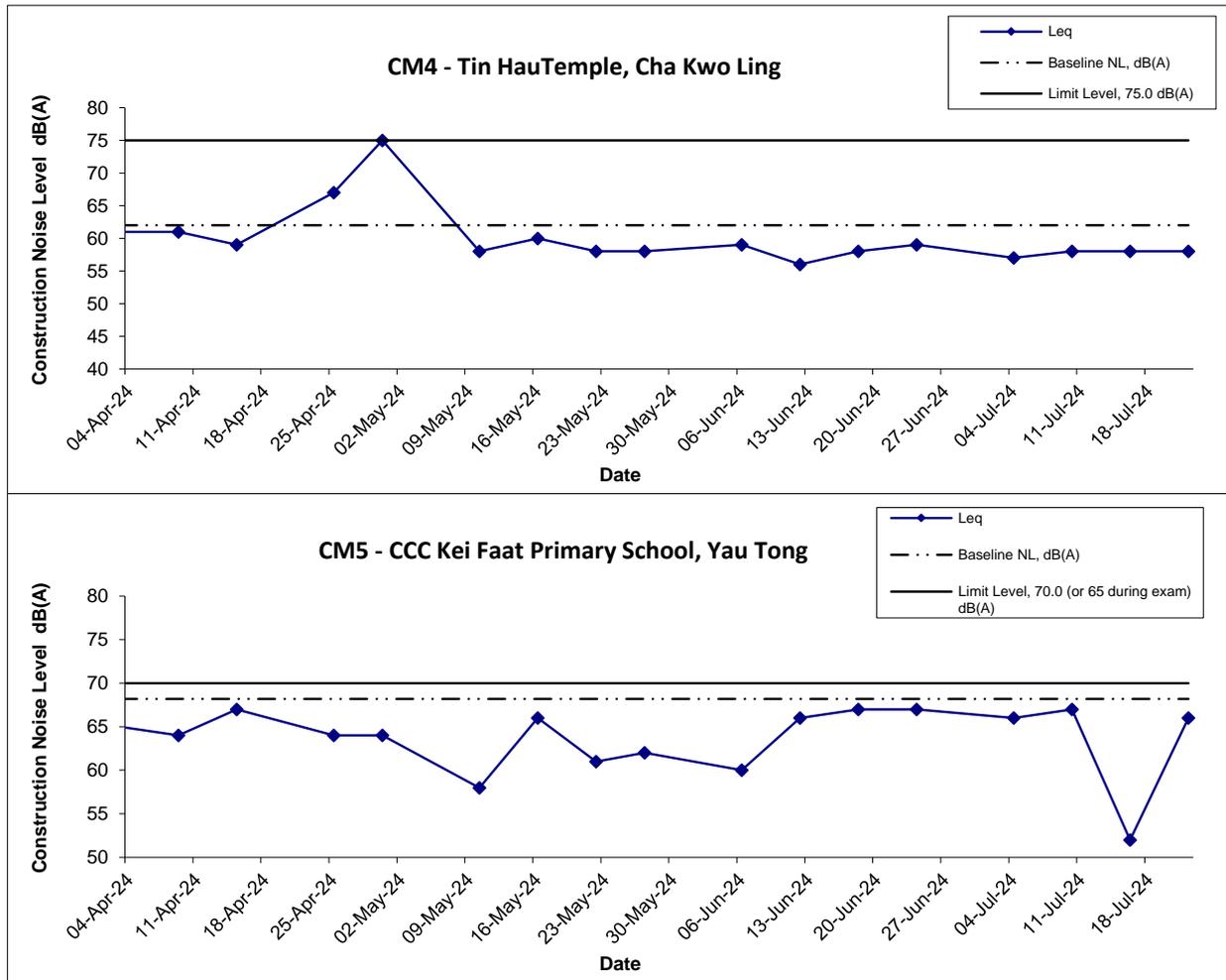
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## Noise Levels



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	
	Jul 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	CINOTECH
	N.T.S	No. MA20003	
	Date	Appendix	
	Jul 24	D	

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**APPENDIX F**  
**SITE AUDIT SUMMARY**

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Appendix F - Site Audit Summary

May 2024

Items	Date	Status*	Follow up Action
<b>Water Quality</b>			
The stagnant water was observed.	2 May 2024	✓	Item was rectified on 9 May 2024
<b>Ecology</b>			
--	--	--	--
<b>Noise</b>			
--	--	--	--
<b>Landscape and Visual</b>			
--	--	--	--
<b>Air Quality</b>			
The excavated material was not covered.	2 May 2024	✓	Item was rectified on 9 May 2024
<b>Waste / Chemical Management</b>			
The rubbish should be removed regularly	25 Apr 2024	✓	Item was rectified on 2 May 2024
The oil containers should be removed regularly	2 May 2024	✓	Item was rectified on 9 May 2024
<b>Impact on Cultural Heritage</b>			
--	--	--	--
<b>Permits / Licenses</b>			
--	--	--	--

- ✓ 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**

**June 2024**

<b>Items</b>	<b>Date</b>	<b>Status*</b>	<b>Follow up Action</b>
<b><i>Water Quality</i></b>			
--	--	--	--
<b><i>Noise</i></b>			
--	--	--	--
<b><i>Landscape and Visual</i></b>			
--	--	--	--
<b><i>Air Quality</i></b>			
--	--	--	--
<b><i>Waste / Chemical Management</i></b>			
--	--	--	--
<b><i>Impact on Cultural Heritage</i></b>			
--	--	--	--
<b><i>Permits / Licenses</i></b>			
--	--	--	--

- ✓ 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 rectified by the contractor

Appendix F - Site Audit Summary

July 2024

Items	Date	Status*	Follow up Action
<b>Water Quality</b>			
Stagnant water should be clearly regularly	25 Jul 2024	✓	To be reported in the next reporting month
<b>Noise</b>			
--	--	--	--
<b>Landscape and Visual</b>			
--	--	--	--
<b>Air Quality</b>			
--	--	--	--
<b>Waste / Chemical Management</b>			
Rubbish bin should be covered properly	18 Jul 2024	✓	Item was rectified on 25 Jul 2024
The oil containers should be removed regularly	4 Jul 2024	✓	Item was rectified on 11 Jul 2024
<b>Impact on Cultural Heritage</b>			
--	--	--	--
<b>Permits / Licenses</b>			
--	--	--	--

- ✓ 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 rectified by the contractor

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

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## 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?
<b>Air Quality</b>						
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"> <li>• Use of frequent watering for particularly dusty construction areas and areas close to ASRs..</li> <li>• Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines.</li> <li>• Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.</li> <li>• Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> <li>• Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.</li> <li>• Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.</li> <li>• Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit.</li> <li>• Imposition of speed controls for vehicles on site haul roads.</li> <li>• Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs</li> <li>• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.</li> <li>• 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.</li> </ul>	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"> <li>• All vehicles shall be shut down in intermittent use.</li> <li>• Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke.</li> <li>• All diesel fuelled construction plant within the works areas shall be powered by ultra low sulphur diesel fuel (ULSD)</li> </ul>	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	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><b>Good Site Practice</b></p> <ul style="list-style-type: none"> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program</li> <li>Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.</li> <li>Mobile plant, if any, should be sited as far away from NSRs as possible.</li> <li>Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.</li> <li>Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.</li> <li>Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>	To minimize construction noise impact arising from the Project at the affected NSRs	Project Proponent	Work sites	Construction Period	EIAO-TM, NCO
S4.9	Scheduling of Construction Works during School Examination Period	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work site near school	Construction phase	EIAO-TM, NCO
<b>Water Quality Impact (Construction Phase)</b>						
S5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m <sup>3</sup> , with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
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 <sup>3</sup> (i.e. 1,000 m <sup>3</sup> per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
Silt Curtain Deployment Plan	<ul style="list-style-type: none"> <li>Silt curtains should be deployed properly to surround the works area.</li> <li>Maintenance of silt curtain should be provided.</li> <li>Sufficient stock of silt curtain should be provided on site.</li> </ul>	Control potential impacts from marine 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"> <li>• all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea;</li> <li>• floating single silt curtain shall be employed for all marine works;</li> <li>• all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> <li>• all hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;</li> <li>• excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved;</li> <li>• adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;</li> <li>• 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;</li> <li>• any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes;</li> <li>• construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and</li> <li>• 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.</li> </ul>	Control potential impacts from filling activities and marine-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
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"> <li>- Before carrying out any dredging and underwater filling works, a temporary barrier shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall)</li> <li>- The temporary barrier fully enclosing the dredging and underwater filling works site shall not be removed before completion of all dredging and underwater filling works.</li> <li>- Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier is comparable to the ambient or baseline levels prior to the removal of the fully enclosed barrier.</li> <li>- Silt curtains shall be deployed for the installation and removal of the temporary barrier and at the double water gates marine access opening during its operation.</li> </ul>	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"> <li>• use of sediment traps; and</li> </ul>					
S5.8.8	<ul style="list-style-type: none"> <li>• adequate maintenance of drainage systems to prevent flooding and overflow.</li> </ul>					
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 <sup>3</sup> capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
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 <sup>3</sup> should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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"> <li>suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport;</li> <li>chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and</li> <li>storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.</li> </ul>	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,
<b>Ecological Impact</b>						
	<b>Measures to Minimize Disturbance</b> <ul style="list-style-type: none"> <li>Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible.</li> </ul>					

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

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S6.8.5	<p><b>Standard Good Site Practice</b></p> <ul style="list-style-type: none"> <li>Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats.</li> <li>Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works.</li> <li>Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner.</li> <li>General drainage arrangements should include sediment and oil traps to collect and control construction site run-off.</li> <li>Open burning on works sites is illegal, and should be strictly prohibited.</li> <li>Measures should also be put into place so that litter, fuel and solvents do not enter the nearby watercourses.</li> </ul>	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
S6.8.6	<p><b>Measure to Minimize Groundwater Inflow</b></p> <ul style="list-style-type: none"> <li>The drained tunnel construction method with groundwater inflow control measures would generally be adopted.</li> <li>During the tunnel excavation, pre-excavation grouting could be adopted to reduce the groundwater inflow and ensure that the tunnel would meet the long term water tightness requirements.</li> </ul>	Minimize groundwater inflow	Contractor	Tunnel	Construction Phase	N/A
S6.8.8	<p><b>Measure to Minimize Impact on Corals</b></p> <p><u>Coral translocation</u></p> <ul style="list-style-type: none"> <li>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.</li> <li>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).</li> <li>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.</li> <li>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.</li> </ul> <p><u>Post translocation Monitoring</u></p> <ul style="list-style-type: none"> <li>A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the translocated coral communities</li> <li>Information gathered during each posttranslocation monitoring survey should include observations on the presence, survival, health condition and growth of the translocated coral colonies. These parameters should then be compared with the baseline results collected from the pre-translocation survey.</li> </ul>	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	<b>Measure to Control Water Quality Impact</b> <ul style="list-style-type: none"> <li>Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.</li> <li>Diverting of the site runoff to silt trap facilities before discharging into storm drain;</li> <li>Proper waste and dumping management; and</li> <li>Standard good-site practice for land-based construction.</li> </ul>	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	<b>Compensation for Vegetation Loss</b> <ul style="list-style-type: none"> <li>Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition.</li> </ul>	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A
<b>Fisheries Impact</b>						
S7.7.3	<b>Measure to Control Water Quality Impact</b> <ul style="list-style-type: none"> <li>Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.</li> </ul>	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	WQO
<b>Waste Management (Construction Phase)</b>						
S8.6.3	<b>Good Site Practices and Waste Reduction Measures</b> <ul style="list-style-type: none"> <li>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;</li> <li>Training of site personnel in site cleanliness, proper waste management and chemical handling procedures;</li> <li>Provision of sufficient waste disposal points and regular collection of waste;</li> <li>Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and</li> <li>Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.</li> </ul>	To reduce waste management impacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354)  Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.4	<b>Good Site Practices and Waste Reduction Measures (con't)</b> <ul style="list-style-type: none"> <li>Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> <li>Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce;</li> <li>Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and</li> <li>Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste.</li> </ul>	To achieve waste reduction	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354)  Land (Miscellaneous Provisions) Ordinance (Cap. 28)
	<b>Good Site Practices and Waste Reduction Measures (con't)</b>					

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

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

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.24 - S8.6.28/ Waste Management Plan	<p><b>Sediments (con't)</b></p> <ul style="list-style-type: none"> <li>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.</li> <li>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).</li> <li>In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water.</li> <li>The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should 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.</li> <li>In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site.</li> <li>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.</li> </ul>	To ensure handling of sediments are in accordance to statutory requirements	Contractor	All works areas with sediments concern	Construction Phase	ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance
	Chemical Wastes.					

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?
S8.6.26/ Waste Management Plan	<ul style="list-style-type: none"> <li>If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible 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.</li> </ul>	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	<b>General Refuse</b> <ul style="list-style-type: none"> <li>General refuse should be stored in enclosed bins or compaction units separate from C&amp;D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&amp;D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.</li> </ul>	To ensure proper management of general refuse	Contractor	All works sites	Construction Phase	Public Health and Municipal Services Ordinance (Cap. 132)
<b>Impact on Cultural Heritage (Construction Phase)</b>						
S9.6.4	<b>Dust and visual impacts</b> <ul style="list-style-type: none"> <li>Temporarily fenced off buffer zone with allowance for public access (minimum 1 m) should be provided;</li> <li>The open yard in front of the temple should be kept as usual for annual Tin Hau festival;</li> <li>Monitoring of vibration impacts should be conducted when the construction works are less than 100m from the temple.</li> </ul>	To prevent dust and visual impacts	Contractors	Work areas	Construction Phase	EIAO; GCHIA; AMO
S9.6.4	<b>Indirect vibration impact</b> <ul style="list-style-type: none"> <li>Vibration level is suggest to be controlled within a peak particle velocity (ppv) limit of 5mm/s measured inside the historical buildings;</li> <li>Monitoring of vibration should be carried out during construction phase.</li> <li>Tilting and settlement monitoring should will be applied on the Cha Kwo Ling Tin Hau Temple as well.</li> <li>A proposal with details for the mitigation measures and monitoring of impacts on built heritage shall be submitted to AMO for comments before commencement of work.</li> </ul>	To prevent indirect vibration impact	Contractors	Work areas	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Built Heritage Mitigation Plan	<ul style="list-style-type: none"> <li>Established Alert, Alarm and Action Level for the monitoring parameters.</li> <li>To increase the instrumentation monitoring and reporting frequency.</li> <li>To propose detailed action plan or contingency plan for the Engineer's approval when AAA Level is reached or exceeded.</li> </ul>	To prevent vibration impacts	NE/2015/01	Tin Hau Temple	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
<b>Landscape and Visual Impact (Construction Phase)</b>						
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
<b>Landfill Gas Hazard (Design and Construction Phase)</b>						
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><b>Safety Measures</b></p> <ul style="list-style-type: none"> <li>For staff who work in, or have responsibility for “at risk” area, such as all excavation workers, supervisors and engineers working within the Consultation Zone, should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards.</li> <li>An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out.</li> <li>No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a rescue if needed.</li> <li>Smoking, naked flames and all other sources of ignition should be prohibited within 15m of any excavation or ground-level confined space. “No smoking” and “No naked flame” notices should be posted prominently on the construction site and, if necessary, special areas should be designed for smoking.</li> <li>Welding, flame-cutting or other hot works should be confined to open areas at least 15m from any trench or excavation.</li> <li>Welding, flame-cutting or other hot works may only be carried out in trenches or confined spaces when controlled by a “permit to work” procedure, properly authorized by the Safety Officer (or, in the case of small developments, other appropriately qualified person).</li> <li>The permit to work procedure should set down clearly the requirements for continuous monitoring for methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure should also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should be 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.</li> <li>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.</li> <li>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.</li> <li>During construction, adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus (BA) sets should be made available on site.</li> <li>Fire drills should be organized at not less than six monthly intervals.</li> </ul>	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD’s Landfill Gas Hazard Assessment Guidance Note Labour Department’s Code of Practice for Safety and Health at Work in Confined Space

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S11.5.10 S11.5.25	<ul style="list-style-type: none"> <li>The contractor should formulate a health and safety policy, standards and instructions for site personnel to follow.</li> <li>All personnel who work on the site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of excavations. Safety notices (in Chinese and English) should be posted at prominent position around the site warning danger of the potential hazards.</li> <li>Service runs within the Consultation Zone should be designated as “special routes”; utilities companies should be informed of this and precautionary measures should be implemented. Precautionary measures should include ensuring that staff members are aware of the potential hazards of working in confined spaces such as manholes and service chambers, and that appropriate monitoring procedures are in place to prevent hazards due to asphyxiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Kong).</li> <li>Periodically during ground-works construction within the 250m Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored should be set down prior to commencement of ground-works either by the Safety Officer or an approved and appropriately qualified person.</li> </ul>					
S11.5.26 - S11.5.31	<p><b>Monitoring</b></p> <ul style="list-style-type: none"> <li>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.</li> <li>For excavations <b>deeper than 1m</b>, measurements should be carried out: <ul style="list-style-type: none"> <li>at the ground surface before excavation commences;-</li> <li>immediately before any worker enters the excavation;</li> <li>at the beginning of each working day for the entire period the excavation remains open; and</li> <li>periodically throughout the working day whilst workers are in the excavation.</li> </ul> </li> <li>For excavations <b>between 300mm and 1m deep</b>, measurements should be carried out: <ul style="list-style-type: none"> <li>directly after the excavation has been completed; and</li> <li>periodically whilst the excavation remains open.</li> </ul> </li> <li>For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person.</li> <li>Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or other appropriately qualified person.</li> <li>The exact frequency of monitoring should be determined prior to the commencement of works, but should be at least once per day, and be carried out by a suitably qualified or qualified person before starting the work of the day. Measurements shall be recorded and kept as a record of safe working conditions with copies of the site diary and submitted to the Engineer for approval. The Contractor may elect to carry out monitoring via an automated monitoring system.</li> </ul>	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 (May 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
<b>Air Quality</b>				
S3.8.7	Excavated / stockpile materials should be covered.	The excavated material was not covered.	2 May 2024	✓
<b>Construction Noise Impact</b>				
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<b>Water Quality Impact</b>				
S5.8.7	Stagnant water should be removed.	The stagnant water was observed.	2 May 2024	✓
<b>Ecological Impact</b>				
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<b>Fisheries Impact</b>				
--	--	--		
<b>Waste Management</b>				
S8.6.4	Rubbish were observed at Portion U.	The rubbish should be removed regularly.	25 Apr 2024	✓
S8.6.7	The oil containers were observed.	The oil containers should be removed regularly.	2 May 2024	✓
<b>Landscape and Visual Impact</b>				
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<b>Landfill Gas Hazards</b>				
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**Table II - Observation / Reminder / Non-compliance made during Site Audit (June 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
<b>Air Quality</b>				
--	--	--		
<b>Construction Noise Impact</b>				
--	--	--		
<b>Water Quality Impact</b>				
--	--	--		
<b>Ecological Impact</b>				
--	--	--		
<b>Fisheries Impact</b>				
--	--	--		
<b>Waste Management</b>				
--	--	--		
<b>Landscape and Visual Impact</b>				
--	--	--		
<b>Landfill Gas Hazards</b>				
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**Table II - Observation / Reminder / Non-compliance made during Site Audit (July 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
<b>Air Quality</b>				
--	--	--		
<b>Construction Noise Impact</b>				
--	--	--		
<b>Water Quality Impact</b>				
S5.8.7	Stagnant water should be prevented/removed to avoid mosquitoes at EVB LG-1.	Stagnant water should be clearly regularly.	25 Jul 2024	✓
<b>Ecological Impact</b>				
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<b>Fisheries Impact</b>				
--	--	--		
<b>Waste Management</b>				
S8.6.27	Rubbish bin should be covered to avoid odour and mosquitoes. (EVB Basement)	Rubbish bin should be covered properly.	18 Jul 2024	✓
S8.6.7	Drip tray should be provided for chemical containers to prevent leakage. (East Bound)	The oil containers should be removed regularly.	4 Jul 2024	✓
<b>Landscape and Visual Impact</b>				
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<b>Landfill Gas Hazards</b>				
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**APPENDIX H**  
**WASTE GENERATED QUANTITY**

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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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
January	2.027	0.187	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											
September											
October											
November											
December											
Total	55.708	4.190	5.136	0.000	50.572	0.000	0.000	0.000	0.000	19.000	0.330

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 m<sup>3</sup>. (ER Part 8 Clause 8.8.5 (d) (ii) refers).

**Monthly Summary Waste Flow Table For 2024**

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

## 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.

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**APPENDIX I  
SUMMARY OF EXCEEDANCES**

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**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: May 2024 – July 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**

No 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)

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

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**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:** May 2024 – July 2024

<b>Log Ref.</b>	<b>Location</b>	<b>Received Date</b>	<b>Details of Complaint/warning/summon and prosecution</b>	<b>Investigation/Mitigation Action</b>	<b>Status</b>
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**Remarks:** No environmental complaint/warning/summon and prosecution were received in the reporting quarter.

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**APPENDIX K  
EVENT AND ACTION PLAN**

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

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
	3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	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.

**Event and Action Plan for Construction Noise**

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

**Limit Levels and Action Plan for Landfill Gas**

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

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**APPENDIX L**  
**CONSTRUCTION PROGRAMME**

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#	Activity Name	Dur	Start	Finish	2024														
					April			May				June				July			
					14	21	28	05	12	19	26	02	09	16	23	30	07	14	21
1	<b>ED/2018/04 TRUNK ROAD T2</b>	98	02-Apr-24	30-Jul-24															
2	<b>SUPPORTING UNDERGROUND STRUCTURE [SUS]</b>	97	03-Apr-24	30-Jul-24															
3	<b>Skin Wall Construction</b>	97	03-Apr-24	30-Jul-24															
4	<b>Westbound</b>	73	03-Apr-24	02-Jul-24															
5	<b>Road level CH6+259 to CH6+567 (308m; 15m/bay; 21 bays)</b>	73	03-Apr-24	02-Jul-24															
6	Bay 9	25	03-Apr-24	03-May-24	[Green Bar]														
7	Bay 10	4	04-May-24	08-May-24															
8	Bay 11	4	09-May-24	13-May-24															
9	Bay 12	4	14-May-24	18-May-24															
10	Bay 13	4	20-May-24	23-May-24															
11	Bay 14	4	24-May-24	28-May-24															
12	Bay 15	4	29-May-24	01-Jun-24															
13	Bay 16	4	03-Jun-24	06-Jun-24															
14	Bay 17	4	07-Jun-24	12-Jun-24															
15	Bay 18	4	13-Jun-24	17-Jun-24															
16	Bay 19	4	18-Jun-24	21-Jun-24															
17	Bay 20	4	22-Jun-24	26-Jun-24															
18	Bay 21	4	27-Jun-24	02-Jul-24															
19	<b>Eastbound</b>	79	25-Apr-24	30-Jul-24															
20	<b>Road level CH6+236 to CH6+567 (331m; 15m/bay; 22 bays)</b>	64	14-May-24	30-Jul-24															
21	Bay 3	4	14-May-24	18-May-24*															
22	Bay 4	4	20-May-24	23-May-24															
23	Bay 5	4	24-May-24	28-May-24															
24	Bay 6	4	29-May-24	01-Jun-24															
25	Bay 7	4	03-Jun-24	06-Jun-24															
26	Bay 8	4	07-Jun-24	12-Jun-24															
27	Bay 9	4	13-Jun-24	17-Jun-24															
28	Bay 10	4	18-Jun-24	21-Jun-24															
29	Bay 11	4	22-Jun-24	26-Jun-24															
30	Bay 1	4	27-Jun-24*	02-Jul-24															
31	Bay 2	4	03-Jul-24	06-Jul-24															
32	Bay 3	4	08-Jul-24	11-Jul-24															
33	Bay 4	4	12-Jul-24	16-Jul-24															
34	Bay 5	4	17-Jul-24	20-Jul-24															
35	Bay 6	4	22-Jul-24	25-Jul-24															
36	Bay 7	4	26-Jul-24	30-Jul-24															
37	<b>Crown level CH6+236 to CH6+567 (331m; 40m/bay; 9 bays)</b>	48	25-Apr-24	22-Jun-24															
38	Bay 4	8	25-Apr-24	04-May-24*															
39	Bay 5	8	06-May-24	14-May-24															
40	Bay 6	8	16-May-24	24-May-24															
41	Bay 7	8	25-May-24	03-Jun-24															
42	Bay 8	8	04-Jun-24	13-Jun-24															

- ◆ Milestones
- Planned Bar
- Critical Bar

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

Three Months Rolling Programme (May24 - Jul24)



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

Appendix A



#	Activity Name	Dur	Start	Finish	2024													
					April			May				June				July		
					14	21	28	05	12	19	26	02	09	16	23	30	07	14
87	Submit Application Form (FS501)	0		23-Jul-24														◆ Submit App
88	<b>LAUNCHING SHAFT</b>	62	02-Apr-24	17-Jun-24														
89	<b>Cell 1 &amp; 2</b>	32	09-May-24	17-Jun-24														
90	<b>OHVD &amp; Top Slab</b>	32	09-May-24	17-Jun-24														
91	Waterproofing + Backfilling stage 1 (-10.5 mPD)	32	09-May-24	17-Jun-24														Waterproofing + Backfilling stage 1 (-10.5 mPD)
92	<b>Cut &amp; Cover</b>	60	02-Apr-24	14-Jun-24														
93	Roof Slab RC	30	02-Apr-24	08-May-24														Roof Slab RC
94	Roof Slab formworks dismantling + waterproofing	18	09-May-24	30-May-24														Roof Slab formworks dismantling + waterproofing
95	LSCC Manhole and Gully construction	12	31-May-24	14-Jun-24														LSCC Manhole and Gully construction
96	<b>TBM TUNNELLING</b>	78	15-Apr-24	18-Jul-24														
97	<b>S1282 Eastbound</b>	78	15-Apr-24	18-Jul-24														
98	<b>CKL Seawall removal</b>	43	30-May-24	11-Jul-24														
99	Bay 3b-4 seawall and spoil removal	43	30-May-24	11-Jul-24														Bay 3b-4 seawall and spoil re
100	<b>Utilities Relocation</b>	72	15-Apr-24	11-Jul-24														
101	EB Tunnel Slurry pipe relocation up to CP16 @ 1CP / week	30	15-Apr-24	21-May-24														EB Tunnel Slurry pipe relocation up to CP16 @ 1CP / week
102	EB Tunnel Slurry pipe relocation up to CP21 @ 1CP / week	42	22-May-24	11-Jul-24														EB Tunnel Slurry pipe relocati
103	<b>TBM Excavation</b>	49	31-May-24	18-Jul-24														
104	15 May 24 EB TBM re-start CH8632 R0900	0	31-May-24*															◆ 15 May 24 EB TBM re-start CH8632 R0900
105	CH 8632-8661 R0913 - Rock excavation 28.6m @ 1.4m/d	20	31-May-24	19-Jun-24														CH 8632-8661 R0913 - Rock excavation 28.6m @ 1.4m/d
106	CH 8661-8687 R0925 - Rock excavation 26.4m @ 1.4m/d	19	30-Jun-24	18-Jul-24														CH 8661-8687 R09
107	<b>S1281 Westbound</b>	0	31-May-24	31-May-24														
108	<b>TBM Excavation</b>	0	31-May-24	31-May-24														
109	31 May 24 WB TBM re-start CH8612 R0891	0	31-May-24															◆ 31 May 24 WB TBM re-start CH8612 R0891
110	<b>INTERNAL STRUCTURES</b>	41	31-May-24	19-Jul-24														
111	<b>Service Gallery B</b>	32	12-Jun-24	19-Jul-24														
112	<b>Eastbound</b>	32	12-Jun-24	19-Jul-24														
113	EB ISIG re-start at SG0820E	0	02-Jul-24															◆ EB ISIG re-start at SG0820E
114	EB SG0820 - SG0833 13 nos installation 28.6m	20	12-Jun-24	05-Jul-24														EB SG0820 - SG0833 13 nos installati
115	EB SG850 completion for CP2.2 installation	0	08-Jul-24															◆ EB SG850 completion for CP2.2 in
116	EB SG0833E - SG0845E 12 nos installation 26.4m	11	08-Jul-24	19-Jul-24														EB SG0833E - SC
117	<b>Westbound</b>	0	12-Jun-24	12-Jun-24														
118	WB ISIG re-start at SG0814W	0	12-Jun-24															◆ WB ISIG re-start at SG0814W
119	<b>Thermal Barrier</b>	40	31-May-24	18-Jul-24														
120	<b>Crown</b>	12	31-May-24	14-Jun-24														
121	<b>Westbound @ 7.5 R/day</b>	12	31-May-24	14-Jun-24														
122	EB Crown Fire Board transfer to WB	12	31-May-24	14-Jun-24														EB Crown Fire Board transfer to WB
123	<b>Road Level</b>	38	03-Jun-24	18-Jul-24														
124	<b>Eastbound</b>	38	03-Jun-24	18-Jul-24														
125	<b>NCPS</b>	38	03-Jun-24	18-Jul-24														
126	EB NCP Fire Board up to CP11 @ 13.2m/d	38	03-Jun-24*	18-Jul-24														EB NCP Fire Board
127	<b>CHA KWO LING TUNNEL</b>	95	06-Apr-24	30-Jul-24														
128	<b>Eastbound</b>	34	17-Apr-24	28-May-24														
129	<b>Type A1/A2 Lining</b>	8	20-May-24	28-May-24														
130	EB Type A1 to C1-C2 fwks adjustment 2nd stage	8	20-May-24*	28-May-24														EB Type A1 to C1-C2 fwks adjustment 2nd stage
131	<b>Type C Wall &amp; Crown</b>	12	17-Apr-24	30-Apr-24														

- ◆ Milestones
- Planned Bar
- Critical Bar

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

Three Months Rolling Programme (May24 - Jul24)

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

#	Activity Name	Dur	Start	Finish	2024													
					April			May				June				July		
					14	21	28	05	12	19	26	02	09	16	23	30	07	14
132	EB Type C1 Crown (1 bay 8d/bay)	12	17-Apr-24	30-Apr-24	EB Type C1 Crown (1 bay 8d/bay)													
133	<b>Westbound</b>	69	11-Apr-24	04-Jul-24														
134	<b>Type A</b>	69	11-Apr-24	04-Jul-24														
135	WB Type A1 OHVD Slab	45	11-Apr-24	04-Jun-24	WB Type A1 OHVD Slab													
136	WB Pilot TBM bulkhead construction 2nd bulkhead (alap)	48	16-Apr-24	13-Jun-24	WB Pilot TBM bulkhead construction 2nd bulkhead (alap)													
137	WB Type A1 OHVD Slab fwk dismantling	24	05-Jun-24	04-Jul-24	WB Type A1 OHVD Slab fwk dismantling													
138	<b>CKL Internal Structures</b>	95	06-Apr-24	30-Jul-24														
139	<b>Fire Board - Crown (TBC)</b>	22	06-Apr-24	02-May-24														
140	EB Type A Fire Board (to be deleted)	22	06-Apr-24	02-May-24	EB Type A Fire Board (to be deleted)													
141	<b>Fire Board - Road Level (TBC)</b>	51	30-May-24	30-Jul-24														
142	Branch Tunnel Fire Board	22	30-May-24*	25-Jun-24	Branch Tunnel Fire Board													
143	EB Type A Fire Board	22	04-Jul-24	29-Jul-24	EB													
144	WB Type A Fire Board	22	05-Jul-24	30-Jul-24	W													
145	<b>Footbridge - FB-03</b>	72	26-Apr-24	23-Jul-24														
146	FT-03 - Bearing Manufacturing	72	26-Apr-24	23-Jul-24	FT-03 - Bea													
147	<b>EAST VENTILATION BUILDING [EVb]</b>	52	20-May-24	20-Jul-24														
148	<b>EVb Construction</b>	35	20-May-24	29-Jun-24														
149	<b>E&amp;M</b>	24	20-May-24	17-Jun-24														
150	EVb - E&M works (LG2)	24	20-May-24*	17-Jun-24	EVb - E&M works (LG2)													
151	<b>Footbridge FB03</b>	30	25-May-24	29-Jun-24														
152	Installation of Structural Frames	30	25-May-24	29-Jun-24	Installation of Structural Frames													
153	<b>Essential Criteria for FSI</b>	31	14-Jun-24	20-Jul-24														
154	<b>Power Egerization</b>	18	14-Jun-24	05-Jul-24														
155	CLP Rm - ABWF works	18	14-Jun-24	05-Jul-24	CLP Rm - ABWF works													
156	<b>Dangerous Goods Licenses</b>	18	29-Jun-24	20-Jul-24														
157	Fuel Tank Room - ABWF works	18	29-Jun-24	20-Jul-24	Fuel Tank Room													
158	<b>E&amp;M INSTALLATION</b>	73	29-Apr-24	26-Jul-24														
159	<b>E&amp;M</b>	73	29-Apr-24	26-Jul-24														
160	<b>1st section CH6703-7109 - (406m) WB CPS &amp; NCPS + EB CPS</b>	67	29-Apr-24	19-Jul-24														
161	<b>E&amp;M Installation (BYME)</b>	67	29-Apr-24	19-Jul-24														
162	<b>CP side</b>	24	21-Jun-24	19-Jul-24														
163	2nd Fixing	24	21-Jun-24	19-Jul-24														
164	Cable Fixing - CPS	24	21-Jun-24	19-Jul-24	Cable Fixing - CP													
165	<b>OHVD Soffit</b>	39	29-Apr-24	15-Jun-24														
166	1st Fixing	39	29-Apr-24	15-Jun-24														
167	Black paint painting	11	29-Apr-24*	11-May-24	Black paint painting													
168	Linear Heat Detection Cable bracket, Containment Installation - O	28	13-May-24	15-Jun-24	Linear Heat Detection Cable bracket, Containment Installation - OHV													
169	<b>Non CP side</b>	24	21-Jun-24	19-Jul-24														
170	2nd Fixing	24	21-Jun-24	19-Jul-24														
171	Cable Laying - NCPS	10	21-Jun-24	03-Jul-24	Cable Laying - NCPS													
172	Cable Fixing - NCPS	14	04-Jul-24	19-Jul-24	Cable Fixing - NC													
173	<b>2nd section CH7109-7607 - (498m) WB CPS &amp; NCPS + EB CPS</b>	62	13-May-24	26-Jul-24														
174	<b>E&amp;M Installation (BYME)</b>	62	13-May-24	26-Jul-24														
175	<b>CP side</b>	34	17-Jun-24	26-Jul-24														

- ◆ Milestones
- ▬ Planned Bar
- ▬ Critical Bar

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

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

#	Activity Name	Dur	Start	Finish	2024																
					April			May				June				July					
					14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	
176	2nd Fixing	34	17-Jun-24	26-Jul-24																	
177	Cable Laying - CPS	10	17-Jun-24*	27-Jun-24																	
178	Cable Fixing - CPS	24	28-Jun-24	26-Jul-24																	
179	OHVD Soffit	6	13-May-24	20-May-24																	
180	1st Fixing	6	13-May-24	20-May-24																	
181	Black paint painting	6	13-May-24	20-May-24																	
182	Non CP side	35	03-Jun-24	15-Jul-24																	
183	2nd Fixing	35	03-Jun-24	15-Jul-24																	
184	HV Cable Pulling - NCPS (Parapet location)	30	03-Jun-24*	09-Jul-24																	
185	Cable Laying - NCPS	10	04-Jul-24	15-Jul-24																	
186	3rd section CH7607-8107 - (500m) WB CPS & NCPS + EB CPS	56	21-May-24	26-Jul-24																	
187	E&M Installation (BYME)	56	21-May-24	26-Jul-24																	
188	CP side	10	28-Jun-24	10-Jul-24																	
189	2nd Fixing	10	28-Jun-24	10-Jul-24																	
190	Cable Laying - CPS	10	28-Jun-24	10-Jul-24																	
191	OHVD Soffit	36	21-May-24	03-Jul-24																	
192	1st Fixing	36	21-May-24	03-Jul-24																	
193	Black paint painting	6	21-May-24	27-May-24																	
194	Linear Heat Detection Cable bracket, Containment Installation - O	30	28-May-24	03-Jul-24																	
195	Non CP side	10	16-Jul-24	26-Jul-24																	
196	2nd Fixing	10	16-Jul-24	26-Jul-24																	
197	Cable Laying - NCPS	10	16-Jul-24	26-Jul-24																	
198	TCSS Access Date	24	28-Jun-24	27-Jul-24																	
199	CP7 - CP16	24	28-Jun-24	27-Jul-24																	
200	CPS	0	28-Jun-24	28-Jun-24																	
201	TCSS access date CPS	0	28-Jun-24																		
202	OHVD	0	27-Jul-24	27-Jul-24																	
203	TCSS access date OHVD soffit	0	27-Jul-24																		
204	NCPS	0	16-Jul-24	16-Jul-24																	
205	TCSS access date NCPS	0	16-Jul-24																		

- ◆ Milestones
- Planned Bar
- Critical Bar

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

Three Months Rolling Programme (May24 - Jul24)

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

Appendix A

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Apr 28	May 29	Jun 30	Jul 31
<b>Trunk Road T2 - Traffic Control &amp; Surveillance System &amp; Associated Works</b>													
<b>Access Dates</b>													
AC1010	Portion 2 - LSCC, WVB & Adit, EVB	0					01-Apr-24						
AC1000	Portion 1 - South Apron Up to SUS	0	01-May-24			27-May-24							
AC1020	Portion 3 - CKL Branch Tunnel in TKO-LTT Site	0	01-May-24			04-Jan-25							
AC1030	Portion 4 - TKO-LTT (LT Interchange)	0	01-May-24			23-May-24							
AC1040	Underpass S21	0	01-May-24			26-Apr-25							
AC1050	Portion 2 - LS - CKL Tunnel CH 6+568 to CH 7+100	0	01-May-24			22-Oct-26							
AC1060	Portion 2 - LS - CKL Tunnel CH 7+100 to CH 7+600	0	01-May-24			29-Aug-24							
AC1070	Portion 2 - LS - CKL Tunnel CH 7+600 to CH 8+100	0	28-May-24			15-Oct-24							
<b>Summary by Cost Center</b>													
<b>Cost Center B - Central System</b>													
SC1060	Configuration for Central System	76	01-May-24	07-Jun-24	31-Aug-24	31-Aug-24	01-Aug-23		EM1150: SS				
SC1040	FAT Plan Submission & Approval for Central System	81	02-May-24	07-Jun-24	31-Aug-24	31-Aug-24	20-Sep-23		DS4300: SS				
SC1050	FAT of Central System	59	02-May-24	06-Jul-24	01-Nov-23	30-Sep-24	31-Oct-23		EM1150: FS				
SC1070	SCT Plan Submission & Approval for Central System	84	16-Jul-24	24-Oct-24	02-Dec-24	14-Mar-25			DS2940: SS				
SC1080	Site Installation of Central System	48	16-Jul-24	09-Sep-24	08-Oct-24	17-Feb-25			SW1100: SS, SW1120: SS, SW1960: SS, SW1090: SS, SW1670: SS, SW1770: SS				
<b>Cost Center C - Traffic Control Devices</b>													
SC1150	Installation Drawing Preparation, Submission & Approval for Traffic Control Devices	72	02-May-24	02-May-24	16-Aug-24	16-Aug-24	31-Aug-23		DS5890: SS				
SC1190	Equipment Manufacturing & Delivery for Traffic Control Devices	135	01-May-24	30-Jun-24	16-Aug-24	16-Aug-24	16-Sep-23		EM1320: SS				
SC1200	SCT Plan Submission & Approval for Traffic Control Devices	84	02-Jul-24	09-Oct-24	12-Nov-24	22-Feb-25			DS2980: SS				
SC1210	Site Installation of Traffic Control Devices	155	29-Jul-24	03-Feb-25	17-Aug-24	07-May-25			SW1110: SS				
<b>Cost Center D - Communication System</b>													
SC1280	Installation Drawing Preparation, Submission & Approval for Communication System	60	02-May-24	13-Jul-24	13-Jul-24	21-Sep-24			DS5930: SS				
SC1340	SCT Plan Submission & Approval for Communication System	84	02-May-24	10-Aug-24	24-Oct-24	14-Mar-25			DS3020: SS				
SC1350	SAT Plan Submission & Approval for Communication System	80	17-May-24	20-Aug-24	07-Nov-24	13-Feb-25			DS3580: SS				
SC1330	Site Installation of Communication System	48	16-Jul-24	09-Sep-24	08-Oct-24	17-Feb-25			SW1100: SS, SW1120: SS, SW1960: SS				
<b>Cost Center E - CCTV System</b>													
SC1410	Installation Drawing Preparation, Submission & Approval for CCTV System	99	02-May-24	28-May-24	31-Oct-26	31-Oct-26	01-Mar-23		DS5970: SS				
SC1450	Equipment Manufacturing & Delivery for CCTV System	89	01-May-24	25-May-24	11-Aug-24	11-Aug-24	01-Aug-23		EM1050: SS				
SC1440	FAT of CCTV System	96	01-May-24	27-May-24	01-Nov-23	13-Aug-24	31-Oct-23		EM1050: FS				
SC1430	FAT Plan Submission & Approval for CCTV System	72	02-May-24	25-May-24	10-Aug-24	10-Aug-24	13-Dec-23		DS4050: SS				
SC1460	SCT Plan Submission & Approval for CCTV System	84	02-May-24	10-Aug-24	03-Sep-24	09-Jan-25			DS3060: SS				
SC1480	SAT Plan Submission & Approval for CCTV System	84	29-Jun-24	08-Oct-24	01-Nov-24	12-Feb-25			DS3620: SS				
SC1470	Site Installation of CCTV System	137	29-Jul-24	09-Jan-25	10-Sep-24	05-Mar-25			SW1060: SS, SW1940: SS				
<b>Cost Center F - PABX System</b>													
SC1560	Installation Drawing Preparation, Submission & Approval for PABX System	68	02-May-24	28-May-24	08-Oct-24	08-Oct-24	27-Jul-23		DS6010: SS				
SC1600	SCT Plan Submission & Approval for PABX System	84	02-May-24	10-Aug-24	18-Oct-24	12-Mar-25			DS3100: SS				
SC1610	SAT Plan Submission & Approval for PABX System	84	29-Jul-24	06-Nov-24	13-Jan-25	24-Apr-25			DS3660: SS				
<b>Cost Center G - ET System</b>													
SC1690	Installation Drawing Preparation, Submission & Approval for ET System	72	02-May-24	21-Jun-24	27-Dec-24	27-Dec-24	26-Mar-24		DS6050: SS				
SC1730	SCT Plan Submission & Approval for ET System	84	02-May-24	10-Aug-24	17-Sep-24	11-Jan-25			DS3140: SS				



**GTECH Services (Hong Kong) Limited**

■ Remaining Work   
 ■ Actual Work   
 ■ Critical Activity   
 ◆ Milestone

Date	Revision	Checked	Approved
30-Apr-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			
										Apr 28	May 29	Jun 30	Jul 31
SC1740	SAT Plan Submission & Approval for ET System	84	15-Jul-24	23-Oct-24	29-Nov-24	12-Mar-25			DS3700: SS				
<b>Cost Center H - PA System</b>		377	02-May-24	02-Jan-25	23-Sep-24	10-Apr-25	31-Aug-23						
SC1820	Installation Drawing Preparation, Submission & Approval for PA System	72	02-May-24	03-May-24	23-Sep-24	23-Sep-24	31-Aug-23		DS6090: SS				
SC1850	SCT Plan Submission & Approval for PA System	84	02-May-24	10-Aug-24	03-Oct-24	12-Feb-25			DS3180: SS				
SC1860	Site Installation of PA System	131	29-Jul-24	02-Jan-25	25-Oct-24	25-Jan-25			SW2370: SS				
SC1870	SAT Plan Submission & Approval for PA System	84	29-Jul-24	06-Nov-24	28-Dec-24	10-Apr-25			DS3740: SS				
<b>Cost Center I - Radio System</b>		294	01-May-24	06-Nov-24	01-Feb-24	08-Mar-25	01-Aug-23						
SC1970	Equipment Manufacturing & Delivery for Radio System	119	01-May-24	02-May-24	14-Oct-24	14-Oct-24	01-Aug-23		EM1090: SS				
SC1950	FAT Plan Submission & Approval for Radio System	60	02-May-24	02-May-24	14-Oct-24	14-Oct-24	28-Dec-23		DS4350: SS				
SC1960	FAT of Radio System	14	01-May-24	04-May-24	01-Feb-24	16-Oct-24	31-Jan-24		EM1090: FS				
SC1930	Installation Drawing Preparation, Submission & Approval for Radio System	60	02-May-24	13-Jul-24	22-Jul-24	23-Oct-24			DS6130: SS				
SC1980	SCT Plan Submission & Approval for Radio System	84	02-May-24	10-Aug-24	27-Aug-24	08-Mar-25			DS3220: SS				
SC2000	SAT Plan Submission & Approval for Radio System	84	29-Jul-24	06-Nov-24	22-Nov-24	05-Mar-25			DS3780: SS				
<b>Cost Center J - Detection System</b>		227	01-May-24	10-Aug-24	01-Nov-23	31-Oct-26	24-May-23						
SC2060	Installation Drawing Preparation, Submission & Approval for Detection System	124	02-May-24	02-May-24	31-Oct-26	31-Oct-26	24-May-23		DS6170: SS				
SC2100	Equipment Manufacturing & Delivery for Detection System	90	01-May-24	20-Jul-24	11-Aug-24	11-Aug-24	01-Aug-23		EM1100: SS				
SC2090	FAT of Detection System	87	01-May-24	22-Jul-24	01-Nov-23	13-Aug-24	31-Oct-23		EM1100: FS				
SC2080	FAT Plan Submission & Approval for Detection System	66	02-May-24	20-Jul-24	24-May-24	10-Aug-24			DS4450: SS				
SC2110	SCT Plan Submission & Approval for Detection System	84	02-May-24	10-Aug-24	09-Sep-24	17-Jan-25			DS3260: SS				
<b>Cost Center K - Manual Fallback System</b>		211	01-May-24	16-Oct-24	09-Sep-24	14-Mar-25	01-Aug-23						
SC2220	FAT of Manual Fallback System	60	01-May-24	30-May-24	09-Sep-24	09-Sep-24	01-Aug-23		EM1640: SS				
SC2190	Installation Drawing Preparation, Submission & Approval for Manual Fallback System	60	02-May-24	02-May-24	08-Jan-25	08-Jan-25	31-Aug-23		DS6210: SS				
SC2200	Post FAT Configuration for Manual Fallback System	90	31-May-24	28-Aug-24	10-Sep-24	08-Jan-25			EM1540: FS				
SC2250	SCT Plan Submission & Approval for Manual Fallback System	84	07-Jun-24	14-Sep-24	17-Sep-24	14-Mar-25			DS3300: SS				
SC2270	SAT Plan Submission & Approval for Manual Fallback System	84	08-Jul-24	16-Oct-24	18-Oct-24	25-Jan-25			DS3860: SS				
<b>Cost Center L - Speed Enforcement System</b>		108	02-May-24	07-Sep-24	23-Sep-24	11-Apr-25							
SC2340	Installation Drawing Preparation, Submission & Approval for Speed Enforcement System	60	02-May-24	13-Jul-24	23-Sep-24	01-Mar-25			DS6290: SS				
SC2370	SCT Plan Submission & Approval for Speed Enforcement System	84	02-May-24	10-Aug-24	30-Nov-24	22-Mar-25			DS3380: SS				
SC2380	Reliability Test Plan Submission & Approval for Speed Enforcement System	84	31-May-24	07-Sep-24	30-Dec-24	11-Apr-25			DS3940: SS				
<b>Cost Center M - Power Distribution System</b>		282	01-May-24	07-Sep-24	28-Sep-23	21-Nov-24	30-Aug-23						
SC2460	Installation Drawing Preparation, Submission & Approval for Power Distribution System	60	02-May-24	04-May-24	27-Jun-24	27-Jun-24	30-Aug-23		DS6370: SS				
SC2470	Equipment Manufacturing & Delivery for Power Distribution System	98	01-May-24	30-May-24	28-Sep-23	12-Aug-24	27-Sep-23		DS2592: FS				
SC2490	SCT Plan Submission & Approval for Power Distribution System	84	31-May-24	07-Sep-24	13-Aug-24	21-Nov-24			DS3420: SS				
<b>Cost Center N - Government Optical Fibre System</b>		332	01-May-24	07-Sep-24	03-Aug-23	28-Apr-25	02-Aug-23						
SC2560	Equipment Manufacturing & Delivery for Government Optical Fibre System	111	01-May-24	30-May-24	03-Aug-23	19-Nov-24	02-Aug-23		DS2650: FS 200				
SC2550	Installation Drawing Preparation, Submission & Approval for Government Optical Fibre System	60	02-May-24	13-Jul-24	07-Sep-24	19-Nov-24			DS6330: SS				
SC2580	SCT Plan Submission & Approval for Government Optical Fibre System	84	31-May-24	07-Sep-24	16-Jan-25	28-Apr-25			DS3460: SS				
<b>Operation Facilities</b>		150	01-May-24	12-Aug-24	22-May-24	20-Jan-25	01-Aug-23						
SC2660	FAT of Operation Facilities	78	01-May-24	12-Aug-24	31-Aug-24	31-Aug-24	01-Aug-23		EM1560: SS				
SC2630	Installation Drawing Preparation, Submission & Approval for Operation Facilities	60	02-May-24	13-Jul-24	09-Nov-24	20-Jan-25			DS6250: SS				
SC2650	FAT Plan Submission & Approval for Operation Facilities	81	02-May-24	07-Aug-24	22-May-24	26-Aug-24			DS4600: SS				
<b>Design &amp; Submissions</b>		304	02-May-24	17-Jun-24	13-Jul-24	25-Jun-25	29-Aug-23						
<b>FSP Submissions (42 Working Days after Commencement of FSP)</b>		304	02-May-24	17-Jun-24	13-Jul-24	25-Jun-25	29-Aug-23						

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Apr 28	May 29	Jun 30	Jul 31
<b>FSP Batch 1 Submission</b>		304	02-May-24	17-Jun-24	13-Jul-24	25-Jun-25	29-Aug-23						
<b>Central System</b>		304	02-May-24	17-Jun-24	13-Jul-24	25-Jun-25	29-Aug-23						
<b>Traffic Plan Review &amp; Combine</b>		140	02-May-24	17-Jun-24	13-Jul-24	26-Aug-24	28-Dec-23						
DS7300	Traffic Plan Review & Combine Workshop	140	02-May-24	17-Jun-24	13-Jul-24	26-Aug-24	28-Dec-23		DS1830: FS 22				
<b>IT Security Risk Assessment Plan</b>		30	02-May-24	02-May-24	25-Jun-25	25-Jun-25	29-Aug-23						
DS7440	Approval on IT Security Risk Assessment Plan	30	02-May-24	02-May-24	25-Jun-25	25-Jun-25	29-Aug-23		DS7430: FS				
<b>Interface Coordination &amp; Integration with Other Parties</b>		96	02-May-24	24-Aug-24	11-May-26	14-Sep-26							
<b>Interfacing Coordination with CKR (KTE)</b>		73	02-May-24	29-Jul-24	17-Jun-26	11-Sep-26							
<b>Detail Interfacing Management Plan (DIMP)</b>		73	02-May-24	29-Jul-24	17-Jun-26	11-Sep-26							
DS6610	Prepare & Submit DIMP with CKR (KTE)	73	02-May-24	29-Jul-24	17-Jun-26	11-Sep-26			DS6600: FS 96				
<b>Interfacing Coordination with CKR (BEM)</b>		73	02-May-24	29-Jul-24	17-Jun-26	11-Sep-26							
<b>Detail Interfacing Management Plan (DIMP)</b>		73	02-May-24	29-Jul-24	17-Jun-26	11-Sep-26							
DS6690	Prepare & Submit DIMP with CKR (BEM)	73	02-May-24	29-Jul-24	17-Jun-26	11-Sep-26			DS6600: FS 96				
<b>Interfacing Coordination with TKO-LTT (Civil)</b>		76	02-May-24	01-Aug-24	12-Jun-26	10-Sep-26							
<b>Detail Interfacing Management Plan (DIMP)</b>		76	02-May-24	01-Aug-24	12-Jun-26	10-Sep-26							
DS6770	Prepare & Submit DIMP with TKO-LTT (Civil)	76	02-May-24	01-Aug-24	12-Jun-26	10-Sep-26			DS6760: FS 96				
<b>Interfacing Coordination with TKO-LTT (TCSS)</b>		76	02-May-24	01-Aug-24	16-Jun-26	14-Sep-26							
<b>Detail Interfacing Management Plan (DIMP)</b>		76	02-May-24	01-Aug-24	16-Jun-26	14-Sep-26							
DS6850	Prepare & Submit DIMP with TKO-LTT (TCSS)	76	02-May-24	01-Aug-24	16-Jun-26	14-Sep-26			DS6840: FS 108				
<b>Interfacing Coordination with T2</b>		96	02-May-24	24-Aug-24	11-May-26	02-Sep-26							
<b>Preliminary Interfacing Management Plan (PIMP)</b>		72	02-May-24	27-Jul-24	11-May-26	05-Aug-26							
DS6890	Prepare & Submit PIMP with T2	24	02-May-24	30-May-24	11-May-26	08-Jun-26			DS2680: FS 211				
DS6900	Comment on PIMP with T2	24	31-May-24	28-Jun-24	09-Jun-26	08-Jul-26			DS6890: FS				
DS6910	Resubmit PIMP with T2	12	29-Jun-24	13-Jul-24	09-Jul-26	22-Jul-26			DS6900: FS				
DS6920	Approval of PIMP with T2	12	15-Jul-24	27-Jul-24	23-Jul-26	05-Aug-26			DS6910: FS				
<b>Detail Interfacing Management Plan (DIMP)</b>		24	29-Jul-24	24-Aug-24	06-Aug-26	02-Sep-26							
DS6930	Prepare & Submit DIMP with T2	24	29-Jul-24	24-Aug-24	06-Aug-26	02-Sep-26			DS6920: FS				
<b>Drawing &amp; Installation Method Statement Submissions</b>		213	02-May-24	09-Aug-24	23-May-24	31-Oct-26	10-Aug-23						
<b>Installation Drawing Submission</b>		210	02-May-24	06-Aug-24	25-Jun-24	31-Oct-26	08-Sep-23						
DS2695	Prepare & Submit Schedule of Installation Drawing	30	02-May-24	06-Jun-24	28-Jul-26	31-Aug-26			DS1050: FS 103				
DS2705	Approval of Schedule of Installation Drawing	50	07-Jun-24	06-Aug-24	01-Sep-26	31-Oct-26			DS2695: FS				
<b>Traffic Control Devices</b>		150	02-May-24	02-May-24	16-Aug-24	16-Aug-24	07-Oct-23						
DS5910	Resubmit Installation Drawing for Traffic Control Devices	12					07-Oct-23	12-Apr-24	DS5900: FS				
DS5920	Approval of Installation Drawing for Traffic Control Devices	12	02-May-24	02-May-24	16-Aug-24	16-Aug-24	13-Apr-24		DS5910: FS, SC1150: FF				
<b>Communication System</b>		60	02-May-24	13-Jul-24	13-Jul-24	21-Sep-24							
DS5930	Prepare & Submit Installation Drawing for Communication System	12	02-May-24	16-May-24	13-Jul-24	26-Jul-24			DS2350: FS 7, DS2352: FS				
DS5940	Comment on Installation Drawing for Communication System	24	17-May-24	14-Jun-24	27-Jul-24	23-Aug-24			DS5930: FS				
DS5950	Resubmit Installation Drawing for Communication System	12	15-Jun-24	28-Jun-24	24-Aug-24	06-Sep-24			DS5940: FS				
DS5960	Approval of Installation Drawing for Communication System	12	29-Jun-24	13-Jul-24	07-Sep-24	21-Sep-24			DS5950: FS, SC1280: FF				
<b>CCTV System</b>		83	02-May-24	28-May-24	06-Oct-26	31-Oct-26	13-Dec-23						
DS8020	Resubmit Installation Drawing for CCTV System	26	02-May-24	13-May-24	06-Oct-26	16-Oct-26	13-Dec-23		DS8010: FS				
DS8030	Approval of Installation Drawing for CCTV System	12	14-May-24	28-May-24	17-Oct-26	31-Oct-26			DS8020: FS, SC1410: FF				
<b>PABX System</b>		152	02-May-24	28-May-24	11-Sep-24	08-Oct-24	08-Sep-23						
DS6030	Resubmit Installation Drawing for PABX System	12	02-May-24	13-May-24	11-Sep-24	23-Sep-24	08-Sep-23		DS6020: FS				
DS6040	Approval of Installation Drawing for PABX System	12	14-May-24	28-May-24	24-Sep-24	08-Oct-24			DS6030: FS, SC1560: FF				
<b>ET System</b>		48	02-May-24	21-Jun-24	08-Nov-24	27-Dec-24	26-Mar-24						
DS6050	Prepare & Submit Installation Drawing for ET System	24					26-Mar-24	23-Apr-24	DS2770: SS 19				
DS6060	Comment on Installation Drawing for ET System	24	02-May-24	23-May-24	08-Nov-24	28-Nov-24	24-Apr-24		DS6050: FS				
DS6070	Resubmit Installation Drawing for ET System	12	24-May-24	06-Jun-24	29-Nov-24	12-Dec-24			DS6060: FS				
DS6080	Approval of Installation Drawing for ET System	12	07-Jun-24	21-Jun-24	13-Dec-24	27-Dec-24			DS6070: FS, SC1690: FF				
<b>PA System</b>		150	02-May-24	03-May-24	21-Sep-24	23-Sep-24	12-Oct-23						
DS6110	Resubmit Installation Drawing for PA System	12					12-Oct-23	18-Apr-24	DS6100: FS				
DS6120	Approval of Installation Drawing for PA System	12	02-May-24	03-May-24	21-Sep-24	23-Sep-24	19-Apr-24		DS6110: FS, SC1820: FF				



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Date	Revision	Checked	Approved
30-Apr-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			
										Apr 28	May 29	Jun 30	Jul 31
<b>Radio System</b>		60	02-May-24	13-Jul-24	22-Jul-24	23-Oct-24							
DS6130	Prepare & Submit Installation Drawing for Radio System	12	02-May-24	16-May-24	22-Jul-24	03-Aug-24			DS2154: FS				
DS6140	Comment on Installation Drawing for Radio System	24	17-May-24	14-Jun-24	26-Aug-24	23-Sep-24			DS6130: FS				
DS6150	Resubmit Installation Drawing for Radio System	12	15-Jun-24	28-Jun-24	24-Sep-24	08-Oct-24			DS6140: FS				
DS6160	Approval of Installation Drawing for Radio System	12	29-Jun-24	13-Jul-24	09-Oct-24	23-Oct-24			DS6150: FS, SC1930: FF				
<b>Detection System</b>		12	02-May-24	02-May-24	31-Oct-26	31-Oct-26	26-Nov-23						
DS6200	Approval of Installation Drawing for Detection System	12	02-May-24	02-May-24	31-Oct-26	31-Oct-26	26-Nov-23		DS6190: FS, SC2060: FF				
<b>Manual Fallback Control System</b>		59	02-May-24	02-May-24	08-Jan-25	08-Jan-25	07-Oct-23						
DS6230	Resubmit Installation Drawing for Manual Fallback Control System	12					07-Oct-23	12-Apr-24	DS6220: FS				
DS6240	Approval of Installation Drawing for Manual Fallback Control System	12	02-May-24	02-May-24	08-Jan-25	08-Jan-25	13-Apr-24		DS6230: FS, SC2190: FF				
<b>Operation Facility</b>		60	02-May-24	13-Jul-24	09-Nov-24	20-Jan-25							
DS6250	Prepare & Submit Installation Drawing for Operation Facility	12	02-May-24	16-May-24	09-Nov-24	22-Nov-24			DS2532: FS				
DS6260	Comment on Installation Drawing for Operation Facility	24	17-May-24	14-Jun-24	23-Nov-24	20-Dec-24			DS6250: FS				
DS6270	Resubmit Installation Drawing for Operation Facility	12	15-Jun-24	28-Jun-24	21-Dec-24	06-Jan-25			DS6260: FS				
DS6280	Approval of Installation Drawing for Operation Facility	12	29-Jun-24	13-Jul-24	07-Jan-25	20-Jan-25			DS6270: FS, SC2630: FF				
<b>Speed Enforcement System</b>		60	02-May-24	13-Jul-24	23-Sep-24	01-Mar-25							
DS6290	Prepare & Submit Installation Drawing for Speed Enforcement System	12	02-May-24	16-May-24	23-Sep-24	07-Oct-24			DS2472: FS				
DS6300	Comment on Installation Drawing for Speed Enforcement System	24	17-May-24	14-Jun-24	02-Jan-25	01-Feb-25			DS6290: FS				
DS6310	Resubmit Installation Drawing for Speed Enforcement System	12	15-Jun-24	28-Jun-24	03-Feb-25	15-Feb-25			DS6300: FS				
DS6320	Approval of Installation Drawing for Speed Enforcement System	12	29-Jun-24	13-Jul-24	17-Feb-25	01-Mar-25			DS6310: FS, SC2340: FF				
<b>Government Optical Fibre System</b>		60	02-May-24	13-Jul-24	07-Sep-24	19-Nov-24							
DS6330	Prepare & Submit Installation Drawing for Government Optical Fibre System	12	02-May-24	16-May-24	07-Sep-24	21-Sep-24			DS2650: FS, DS2592: SS				
DS6340	Comment on Installation Drawing for Government Optical Fibre System	24	17-May-24	14-Jun-24	23-Sep-24	22-Oct-24			DS6330: FS				
DS6350	Resubmit Installation Drawing for Government Optical Fibre System	12	15-Jun-24	28-Jun-24	23-Oct-24	05-Nov-24			DS6340: FS				
DS6360	Approval of Installation Drawing for Government Optical Fibre System	12	29-Jun-24	13-Jul-24	06-Nov-24	19-Nov-24			DS6350: FS, SC2550: FF				
<b>Power Distribution System</b>		36	02-May-24	04-May-24	25-Jun-24	27-Jun-24	28-Mar-24						
DS6402	Comment on Installation Drawing for Power Distribution System	12					28-Mar-24	16-Apr-24	DS6401: FS				
DS6403	Resubmit Installation Drawing for Power Distribution System	12					17-Apr-24	19-Apr-24	DS6402: FS				
DS6404	Approval of Installation Drawing for Power Distribution System	12	02-May-24	04-May-24	25-Jun-24	27-Jun-24	20-Apr-24		DS6403: FS, SC2460: FF				
<b>Installation Method Statement Submission</b>		185	02-May-24	09-Aug-24	23-May-24	31-Dec-24	10-Aug-23						
<b>Traffic Control Devices</b>		72	02-May-24	27-Jul-24	23-May-24	16-Aug-24							
DS2780	Prepare & Submit Installation Method Statement for Installation of TCSS Field Equipment	24	02-May-24	30-May-24	23-May-24	20-Jun-24			DS5890: FS 2				
DS2790	Comment on Installation Method Statement for Installation of TCSS Field Equipment	24	31-May-24	28-Jun-24	21-Jun-24	19-Jul-24			DS2780: FS				
DS2800	Resubmit Installation Method Statement for Installation of TCSS Field Equipment	12	29-Jun-24	13-Jul-24	20-Jul-24	02-Aug-24			DS2790: FS				
DS2810	Approval of Installation Method Statement for Installation of TCSS Field Equipment	12	15-Jul-24	27-Jul-24	03-Aug-24	16-Aug-24			DS2800: FS				
<b>CCTV Camera &amp; VD Camera</b>		72	02-May-24	27-Jul-24	27-May-24	20-Aug-24							
DS6410	Prepare & Submit Installation Method Statement for CCTV Camera & VD Camera	24	02-May-24	30-May-24	27-May-24	24-Jun-24			DS5990: FS, DS6190: FS 2				
DS6420	Comment on Installation Method Statement for CCTV Camera & VD Camera	24	31-May-24	28-Jun-24	25-Jun-24	23-Jul-24			DS6410: FS				
DS6430	Resubmit Installation Method Statement for CCTV Camera & VD Camera	12	29-Jun-24	13-Jul-24	24-Jul-24	06-Aug-24			DS6420: FS				



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Apr 28	May 29	Jun 30	Jul 31
DS6440	Approval of Installation Method Statement for CCTV Camera & VD Camera	12	15-Jul-24	27-Jul-24	07-Aug-24	20-Aug-24			DS6430: FS				
<b>PABX, ET &amp; PA Systems</b>		72	02-May-24	27-Jul-24	29-Jun-24	23-Sep-24							
DS6450	Prepare & Submit Installation Method Statement for PABX, ET & PA Systems	24	02-May-24	30-May-24	29-Jun-24	27-Jul-24			DS6010: FS, DS6050: SS 6, DS6090: FS				
DS6460	Comment on Installation Method Statement for PABX, ET & PA Systems	24	31-May-24	28-Jun-24	29-Jul-24	24-Aug-24			DS6450: FS				
DS6470	Resubmit Installation Method Statement for PABX, ET & PA Systems	12	29-Jun-24	13-Jul-24	26-Aug-24	07-Sep-24			DS6460: FS				
DS6480	Approval of Installation Method Statement for PABX, ET & PA Systems	12	15-Jul-24	27-Jul-24	09-Sep-24	23-Sep-24			DS6470: FS				
<b>Radio System</b>		72	09-May-24	03-Aug-24	29-Jul-24	23-Oct-24							
DS6490	Prepare & Submit Installation Method Statement for Radio System	24	09-May-24	06-Jun-24	29-Jul-24	24-Aug-24			DS6130: SS 6				
DS6500	Comment on Installation Method Statement for Radio System	24	07-Jun-24	06-Jul-24	26-Aug-24	23-Sep-24			DS6490: FS				
DS6510	Resubmit Installation Method Statement for Radio System	12	08-Jul-24	20-Jul-24	24-Sep-24	08-Oct-24			DS6500: FS				
DS6520	Approval of Installation Method Statement for Radio System	12	22-Jul-24	03-Aug-24	09-Oct-24	23-Oct-24			DS6510: FS				
<b>Power Distribution System</b>		124	02-May-24	28-May-24	01-Jun-24	27-Jun-24	10-Aug-23						
DS6550	Resubmit Installation Method Statement for Power Distribution System	6	02-May-24	13-May-24	01-Jun-24	13-Jun-24	10-Aug-23		DS6540: FS				
DS6560	Approval of Installation Method Statement for Power Distribution System	12	14-May-24	28-May-24	14-Jun-24	27-Jun-24			DS6550: FS				
<b>SEC System</b>		24	13-Jul-24	09-Aug-24	03-Dec-24	31-Dec-24							
DS7380	Prepare & Submit Installation Method Statement for SEC System	24	13-Jul-24	09-Aug-24	03-Dec-24	31-Dec-24			DS6290: FS 47				
<b>Detection System</b>		72	02-May-24	27-Jul-24	27-May-24	20-Aug-24							
DS7470	Prepare & Submit Installation Method Statement for Detection System	24	02-May-24	30-May-24	27-May-24	24-Jun-24			DS5990: FS, DS6190: FS 2				
DS7480	Comment on Installation Method Statement for Detection System	24	31-May-24	28-Jun-24	25-Jun-24	23-Jul-24			DS7470: FS				
DS7490	Resubmit Installation Method Statement for Detection System	12	29-Jun-24	13-Jul-24	24-Jul-24	06-Aug-24			DS7480: FS				
DS7500	Approval of Installation Method Statement for Detection System	12	15-Jul-24	27-Jul-24	07-Aug-24	20-Aug-24			DS7490: FS				
<b>FAT Plan Submissions, Equipment Procurement &amp; Manufacturing</b>		198	01-May-24	28-Aug-24	22-May-24	31-Oct-26	10-Oct-23						
<b>CCTV System</b>		52	02-May-24	03-Jun-24	19-Jul-24	20-Aug-24	27-Mar-24						
<b>FAT Plan Submission</b>		45	02-May-24	25-May-24	19-Jul-24	10-Aug-24	27-Mar-24						
DS8140	Resubmission of FAT Plan for CCTV System	12	02-May-24	10-May-24	19-Jul-24	27-Jul-24	27-Mar-24		DS4080: FS				
DS8150	Approval of FAT Plan for CCTV System	12	11-May-24	25-May-24	29-Jul-24	10-Aug-24			DS8140: FS, SC1430: FF				
<b>Equipment FAT &amp; Manufacturing</b>		7	26-May-24	03-Jun-24	12-Aug-24	20-Aug-24							
EM1480	FAT of CCTV System	2	26-May-24	27-May-24	12-Aug-24	13-Aug-24			SC1440: FF, EM1050: FS, SC1450: FS, DS8150: FS				
DS4090	Submit CCTV System FAT Test Report	1	03-Jun-24	03-Jun-24	20-Aug-24	20-Aug-24			EM1480: FS 6				
<b>Traffic Control Devices</b>		117	01-May-24	30-Jun-24	17-Jun-24	16-Aug-24	10-Oct-23						
<b>Equipment FAT &amp; Manufacturing</b>		117	01-May-24	30-Jun-24	17-Jun-24	16-Aug-24	10-Oct-23						
<b>PVMS</b>		85	01-May-24	30-Jun-24	17-Jun-24	16-Aug-24	10-Oct-23						
EM1030	Post-FAT Manufacturing & Delivery of Traffic Control Devices (PVMS)	85	01-May-24	30-Jun-24	17-Jun-24	16-Aug-24	10-Oct-23		DS4290: FF, SC1190: FF, EM1460: FS				
<b>LED Signage</b>		85	01-May-24	04-Jun-24	13-Jul-24	16-Aug-24	12-Mar-24						
EM1650	Post-FAT Manufacturing & Delivery of Traffic Control Devices (LED Signage)	85	01-May-24	04-Jun-24	13-Jul-24	16-Aug-24	12-Mar-24		EM1461: FS, SC1190: FF, DS4291: FS, DS8160: FS				
<b>Central System</b>		76	02-May-24	15-Jul-24	27-Jul-24	07-Oct-24	27-Mar-24						
<b>FAT Plan Submission</b>		46	02-May-24	07-Jun-24	27-Jul-24	31-Aug-24	27-Mar-24						
DS8130	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	21					27-Mar-24	15-Apr-24	DS8120: FS				
DS8220	Resubmission of FAT Plan for Central System	12	02-May-24	13-May-24	27-Jul-24	07-Aug-24	16-Apr-24		DS8130: FS				
DS8230	Approval of FAT Plan for Central System	21	14-May-24	07-Jun-24	08-Aug-24	31-Aug-24			DS8220: FS, SC1040: FF				

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Apr 28	May 29	Jun 30	Jul 31
<b>Equipment FAT &amp; Manufacturing</b>													
EM1580	FAT of Central System	30	08-Jun-24	15-Jul-24	01-Sep-24	07-Oct-24			SC1050: FF, EM1150: FS, SC1060: FS, DS8130: FS, DS8230: FS				
DS4340	Submit Central System FAT Test Report	1	15-Jul-24	15-Jul-24	07-Oct-24	07-Oct-24			EM1580: FS 6				
<b>Radio System</b>													
<b>FAT Plan Submission</b>													
DS8200	Resubmission of FAT Plan for Radio System	12					26-Mar-24	17-Apr-24	DS4380: FS				
DS8210	Approval of FAT Plan for Radio System	12	02-May-24	02-May-24	14-Oct-24	14-Oct-24	18-Apr-24		DS8200: FS, SC1950: FF				
<b>Equipment FAT &amp; Manufacturing</b>													
EM1520	FAT of Radio Distribution Network	2	03-May-24	04-May-24	15-Oct-24	16-Oct-24			EM1090: FS, SC1970: FS, SC1960: FF, DS8210: FS				
EM1610	FAT of Radio O&M (Mobile & Portable)	2	03-May-24	04-May-24	15-Oct-24	16-Oct-24			EM1090: FS, SC1970: FS, SC1960: FF, DS8210: FS				
DS4390	Submit Radio System FAT Test Report	1	11-May-24	11-May-24	23-Oct-24	23-Oct-24			EM1610: FS 6, EM1520: FS 6				
<b>Communication System</b>													
<b>Equipment FAT &amp; Manufacturing</b>													
DS8190	Approval of FAT Report for Communication System	12					28-Mar-24	09-Apr-24	DS8180: FS				
<b>Detection System</b>													
<b>FAT Plan Submission</b>													
DS4450	Submission of Detection System FAT Plan	18	02-May-24	23-May-24	24-May-24	14-Jun-24			DS2232: FS				
DS4460	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	24	24-May-24	21-Jun-24	15-Jun-24	13-Jul-24			DS4450: FS				
DS4470	Resubmission of FAT Plan for Detection System	12	22-Jun-24	06-Jul-24	15-Jul-24	27-Jul-24			DS4460: FS				
DS4480	Approval of FAT Plan for Detection System	12	08-Jul-24	20-Jul-24	29-Jul-24	10-Aug-24			DS4470: FS, SC2080: FF				
<b>Equipment FAT &amp; Manufacturing</b>													
EM1530	FAT of Detection System	2	21-Jul-24	22-Jul-24	12-Aug-24	13-Aug-24			DS4480: FS, SC2090: FF, EM1100: FS, SC2100: FS				
DS4490	Submit Detection System FAT Test Report	1	29-Jul-24	29-Jul-24	20-Aug-24	20-Aug-24			EM1530: FS 6				
<b>Power Distribution System</b>													
<b>Equipment Manufacturing</b>													
EM1620	Manufacturing & Delivery of Power Distribution System Equipment	89	01-May-24	30-May-24	14-Jul-24	12-Aug-24	01-Dec-23		SC2470: FF, DS7650: FS, DS2592: FS				
<b>Government Optical Fibre System</b>													
<b>Equipment Manufacturing</b>													
EM1630	Manufacturing & Delivery of Government Optical Fibre System Equipment	105	01-May-24	30-May-24	21-Oct-24	19-Nov-24	01-Dec-23		DS2650: FS 200, SC2560: FF, DS7660: FS				
<b>Operation Facilities</b>													
<b>FAT Plan Submission</b>													
DS4600	Submission of Operation Facility FAT Plan	24	02-May-24	30-May-24	22-May-24	19-Jun-24			DS2532: FS				
DS4610	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-May-24	28-Jun-24	20-Jun-24	18-Jul-24			DS4600: FS				
DS4620	Resubmission of FAT Plan for Operation Facility	12	29-Jun-24	13-Jul-24	19-Jul-24	01-Aug-24			DS4610: FS				
DS4630	Approval of FAT Plan for Operation Facility	21	15-Jul-24	07-Aug-24	02-Aug-24	26-Aug-24			DS4620: FS, SC2650: FF				
<b>Speed Enforcement System</b>													
<b>FAT Plan Submission</b>													
DS4690	Comment of SES Bench Test Plan/ Workshops (System Briefing & Comment Discussion)	24					20-Mar-24	09-Apr-24	DS4670: FS				
DS4710	Resubmission of SES Bench Test Plan	12	02-May-24	13-May-24	19-Sep-26	02-Oct-26	10-Apr-24		DS4690: FS				
DS4720	Approval of SES Bench Test Plan	12	14-May-24	28-May-24	03-Oct-26	16-Oct-26			DS4710: FS				
<b>Equipment FAT &amp; Manufacturing</b>													
EM1600	SEC System Bench Test	2	29-May-24	30-May-24	17-Oct-26	18-Oct-26			EM1570: FS 60, DS4720: FS				
DS4740	Submit SEC System Bench Test Report	1	12-Jun-24	12-Jun-24	31-Oct-26	31-Oct-26			EM1600: FS 12				
<b>Manual Fallback Control System</b>													
<b>Equipment FAT &amp; Manufacturing</b>													
		99	01-May-24	28-Aug-24	11-Aug-24	08-Jan-25							



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Apr 28	May 29	Jun 30	Jul 31
EM1540	FAT of Manual Fallback Control System	30	01-May-24	30-May-24	11-Aug-24	09-Sep-24			DS4780: FS, SC2220: FF, EM1640: FS, DS7690: FS				
EM1110	Post-FAT Configuration of Manual Fallback Control System	90	31-May-24	28-Aug-24	11-Oct-24	08-Jan-25			EM1540: FS, DS4790: FF, SC2200: FF				
DS4790	Submit Manual Fallback Control System FAT Test Report	1	06-Jun-24	06-Jun-24	16-Sep-24	16-Sep-24			EM1540: FS 6				
<b>SCT Plan Submissions</b>		<b>85</b>	<b>02-May-24</b>	<b>12-Aug-24</b>	<b>13-Aug-24</b>	<b>29-Mar-25</b>							
<b>Central System</b>		<b>24</b>	<b>16-Jul-24</b>	<b>12-Aug-24</b>	<b>02-Dec-24</b>	<b>30-Dec-24</b>							
DS2940	Submission of Central System SCT Plan	24	16-Jul-24	12-Aug-24	02-Dec-24	30-Dec-24			DS4340: FS				
<b>Traffic Control Devices</b>		<b>24</b>	<b>02-Jul-24</b>	<b>29-Jul-24</b>	<b>12-Nov-24</b>	<b>09-Dec-24</b>							
DS2980	Submission of Traffic Control Devices SCT Plan	24	02-Jul-24	29-Jul-24	12-Nov-24	09-Dec-24			EM1030: FS, EM1650: FS				
<b>Communication System</b>		<b>84</b>	<b>02-May-24</b>	<b>10-Aug-24</b>	<b>24-Oct-24</b>	<b>14-Mar-25</b>							
DS3020	Submission of Communication System SCT Plan	24	02-May-24	30-May-24	24-Oct-24	20-Nov-24			EM1040: FS				
DS3030	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-May-24	28-Jun-24	31-Dec-24	28-Jan-25			DS3020: FS				
DS3040	Resubmission of SCT Plan for Communication System	12	29-Jun-24	13-Jul-24	01-Feb-25	14-Feb-25			DS3030: FS				
DS3050	Approval of SCT Plan for Communication System	24	15-Jul-24	10-Aug-24	15-Feb-25	14-Mar-25			DS3040: FS, SC1340: FF				
<b>CCTV System</b>		<b>84</b>	<b>02-May-24</b>	<b>10-Aug-24</b>	<b>03-Sep-24</b>	<b>09-Jan-25</b>							
DS3060	Submission of CCTV System SCT Plan	24	02-May-24	30-May-24	03-Sep-24	02-Oct-24			EM1050: FS				
DS3070	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-May-24	28-Jun-24	30-Oct-24	26-Nov-24			DS3060: FS				
DS3080	Resubmission of SCT Plan for CCTV System	12	29-Jun-24	13-Jul-24	27-Nov-24	10-Dec-24			DS3070: FS				
DS3090	Approval of SCT Plan for CCTV System	24	15-Jul-24	10-Aug-24	11-Dec-24	09-Jan-25			DS3080: FS, SC1460: FF				
<b>PABX System</b>		<b>84</b>	<b>02-May-24</b>	<b>10-Aug-24</b>	<b>18-Oct-24</b>	<b>12-Mar-25</b>							
DS3100	Submission of PABX System SCT Plan	24	02-May-24	30-May-24	18-Oct-24	14-Nov-24			EM1060: FS				
DS3110	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-May-24	28-Jun-24	28-Dec-24	25-Jan-25			DS3100: FS				
DS3120	Resubmission of SCT Plan for PABX System	12	29-Jun-24	13-Jul-24	27-Jan-25	12-Feb-25			DS3110: FS				
DS3130	Approval of SCT Plan for PABX System	24	15-Jul-24	10-Aug-24	13-Feb-25	12-Mar-25			DS3120: FS, SC1600: FF				
<b>ET System</b>		<b>84</b>	<b>02-May-24</b>	<b>10-Aug-24</b>	<b>17-Sep-24</b>	<b>11-Jan-25</b>							
DS3140	Submission of ET System SCT Plan	24	02-May-24	30-May-24	17-Sep-24	17-Oct-24			EM1070: FS				
DS3150	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-May-24	28-Jun-24	01-Nov-24	28-Nov-24			DS3140: FS				
DS3160	Resubmission of SCT Plan for ET System	12	29-Jun-24	13-Jul-24	29-Nov-24	12-Dec-24			DS3150: FS				
DS3170	Approval of SCT Plan for ET System	24	15-Jul-24	10-Aug-24	13-Dec-24	11-Jan-25			DS3160: FS, SC1730: FF				
<b>PA System</b>		<b>84</b>	<b>02-May-24</b>	<b>10-Aug-24</b>	<b>03-Oct-24</b>	<b>12-Feb-25</b>							
DS3180	Submission of PA System SCT Plan	24	02-May-24	30-May-24	03-Oct-24	31-Oct-24			EM1080: FS				
DS3190	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-May-24	28-Jun-24	29-Nov-24	27-Dec-24			DS3180: FS				
DS3200	Resubmission of SCT Plan for PA System	12	29-Jun-24	13-Jul-24	28-Dec-24	11-Jan-25			DS3190: FS				
DS3210	Approval of SCT Plan for PA System	24	15-Jul-24	10-Aug-24	13-Jan-25	12-Feb-25			DS3200: FS, SC1850: FF				
<b>Radio System</b>		<b>84</b>	<b>02-May-24</b>	<b>10-Aug-24</b>	<b>27-Aug-24</b>	<b>08-Mar-25</b>							
DS3220	Submission of Radio System SCT Plan	24	02-May-24	30-May-24	27-Aug-24	24-Sep-24			EM1090: SS 30				
DS3230	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-May-24	28-Jun-24	24-Dec-24	22-Jan-25			DS3220: FS				
DS3240	Resubmission of SCT Plan for Radio System	12	29-Jun-24	13-Jul-24	23-Jan-25	08-Feb-25			DS3230: FS				
DS3250	Approval of SCT Plan for Radio System	24	15-Jul-24	10-Aug-24	10-Feb-25	08-Mar-25			DS3240: FS, SC1980: FF				
<b>Detection System</b>		<b>84</b>	<b>02-May-24</b>	<b>10-Aug-24</b>	<b>09-Sep-24</b>	<b>17-Jan-25</b>							
DS3260	Submission of Detection System SCT Plan	24	02-May-24	30-May-24	09-Sep-24	08-Oct-24			EM1100: FS				
DS3270	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-May-24	28-Jun-24	07-Nov-24	04-Dec-24			DS3260: FS				
DS3280	Resubmission of SCT Plan for Detection System	12	29-Jun-24	13-Jul-24	05-Dec-24	18-Dec-24			DS3270: FS				
DS3290	Approval of SCT Plan for Detection System	24	15-Jul-24	10-Aug-24	19-Dec-24	17-Jan-25			DS3280: FS, SC2110: FF				
<b>Manual Fallback Control System</b>		<b>48</b>	<b>07-Jun-24</b>	<b>03-Aug-24</b>	<b>17-Sep-24</b>	<b>28-Jan-25</b>							
DS3300	Submission of Manual Fallback Control System SCT Plan	24	07-Jun-24	06-Jul-24	17-Sep-24	17-Oct-24			DS4790: FS				
DS3310	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	08-Jul-24	03-Aug-24	31-Dec-24	28-Jan-25			DS3300: FS				



■ Remaining Work    ◆ Milestone  
■ Actual Work  
■ Critical Activity

Date	Revision	Checked	Approved
30-Apr-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			
										Apr 28	May 29	Jun 30	Jul 31
<b>Speed Enforcement System</b>		84	02-May-24	10-Aug-24	30-Nov-24	22-Mar-25							
DS3380	Submission of Speed Enforcement System SCT Plan	24	02-May-24	30-May-24	30-Nov-24	28-Dec-24			EM1130: FS				
DS3390	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	31-May-24	28-Jun-24	09-Jan-25	08-Feb-25			DS3380: FS				
DS3400	Resubmission of SCT Plan for Speed Enforcement System	12	29-Jun-24	13-Jul-24	10-Feb-25	22-Feb-25			DS3390: FS				
DS3410	Approval of SCT Plan for Speed Enforcement System	24	15-Jul-24	10-Aug-24	24-Feb-25	22-Mar-25			DS3400: FS, SC2370: FF				
<b>Power Distribution System</b>		60	31-May-24	10-Aug-24	13-Aug-24	24-Oct-24							
DS3420	Submission of Power Distribution System SCT Plan	24	31-May-24	28-Jun-24	13-Aug-24	09-Sep-24			EM1620: FS, DS2592: FS				
DS3430	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Jun-24	27-Jul-24	10-Sep-24	09-Oct-24			DS3420: FS				
DS3440	Resubmission of SCT Plan for Power Distribution System	12	29-Jul-24	10-Aug-24	10-Oct-24	24-Oct-24			DS3430: FS				
<b>Government Optical Fibre System</b>		60	31-May-24	10-Aug-24	16-Jan-25	29-Mar-25							
DS3460	Submission of Government Optical Fibre System SCT Plan	24	31-May-24	28-Jun-24	16-Jan-25	15-Feb-25			EM1630: FS				
DS3470	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Jun-24	27-Jul-24	17-Feb-25	15-Mar-25			DS3460: FS				
DS3480	Resubmission of SCT Plan for Government Optical Fibre System	12	29-Jul-24	10-Aug-24	17-Mar-25	29-Mar-25			DS3470: FS				
<b>SAT Plan Submissions</b>		84	17-May-24	24-Aug-24	18-Oct-24	13-Mar-25							
<b>Communication System</b>		80	17-May-24	20-Aug-24	07-Nov-24	13-Feb-25							
DS3580	Submission of Communication System SAT Plan	20	17-May-24	08-Jun-24	07-Nov-24	29-Nov-24			DS3020: SS 12				
DS3590	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	11-Jun-24	09-Jul-24	30-Nov-24	28-Dec-24			DS3580: FS				
DS3600	Resubmission of SAT Plan for Communication System	12	10-Jul-24	23-Jul-24	30-Dec-24	13-Jan-25			DS3590: FS				
DS3610	Approval of SAT Plan for Communication System	24	24-Jul-24	20-Aug-24	14-Jan-25	13-Feb-25			DS3600: FS, SC1350: FF				
<b>CCTV System</b>		48	29-Jun-24	24-Aug-24	01-Nov-24	27-Dec-24							
DS3620	Submission of CCTV System SAT Plan	24	29-Jun-24	27-Jul-24	01-Nov-24	28-Nov-24			DS3060: FS 24				
DS3630	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Jul-24	24-Aug-24	29-Nov-24	27-Dec-24			DS3620: FS				
<b>PABX System</b>		24	29-Jul-24	24-Aug-24	13-Jan-25	12-Feb-25							
DS3660	Submission of PABX System SAT Plan	24	29-Jul-24	24-Aug-24	13-Jan-25	12-Feb-25			DS3100: FS 48				
<b>ET System</b>		24	15-Jul-24	10-Aug-24	29-Nov-24	27-Dec-24							
DS3700	Submission of ET System SAT Plan	24	15-Jul-24	10-Aug-24	29-Nov-24	27-Dec-24			DS3140: FS 36				
<b>PA System</b>		24	29-Jul-24	24-Aug-24	28-Dec-24	25-Jan-25							
DS3740	Submission of PA System SAT Plan	24	29-Jul-24	24-Aug-24	28-Dec-24	25-Jan-25			DS3180: FS 48				
<b>Radio System</b>		24	29-Jul-24	24-Aug-24	22-Nov-24	19-Dec-24							
DS3780	Submission of Radio System SAT Plan	24	29-Jul-24	24-Aug-24	22-Nov-24	19-Dec-24			DS3220: FS 48				
<b>Manual Fallback Control System</b>		24	08-Jul-24	03-Aug-24	18-Oct-24	14-Nov-24							
DS3860	Submission of Manual Fallback Control System SAT Plan	24	08-Jul-24	03-Aug-24	18-Oct-24	14-Nov-24			DS3300: FS				
<b>Speed Enforcement System</b>		60	31-May-24	10-Aug-24	30-Dec-24	13-Mar-25							
DS3940	Submission of Speed Enforcement System Reliability Test Plan	24	31-May-24	28-Jun-24	30-Dec-24	27-Jan-25			DS3380: FS				
DS3950	Comment on Reliability Test Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Jun-24	27-Jul-24	28-Jan-25	27-Feb-25			DS3940: FS				
DS3960	Resubmission of Reliability Test Plan for Speed Enforcement System	12	29-Jul-24	10-Aug-24	28-Feb-25	13-Mar-25			DS3950: FS				
<b>Training Document &amp; O&amp;M Manual Submission for T2/TKOLTT TCSS</b>		65	22-Jun-24	06-Sep-24	06-May-25	22-Jul-25							
DS3980	Submit Document for System Description	6	22-Jun-24	28-Jun-24	06-May-25	12-May-25			DS3580: SS 30				
DS4010	Submit System Administration Manual	11	29-Jun-24	12-Jul-24	13-May-25	24-May-25			DS3980: FS				
DS4020	Submit Training Manual	48	13-Jul-24	06-Sep-24	26-May-25	22-Jul-25			DS4010: FS				
<b>Site Installation and Testing &amp; Commissioning</b>		184	02-May-24	09-Dec-24	23-May-24	31-Oct-26	01-Apr-24						
<b>Installation &amp; Testing Related to Stage 2 of Works</b>		184	02-May-24	09-Dec-24	28-Jun-24	31-Oct-26							
<b>Installation</b>		184	02-May-24	09-Dec-24	28-Jun-24	31-Oct-26							
<b>Portion 4 - TKO-LTT (LT Interchange)</b>		78	07-Jun-24	07-Sep-24	28-Jun-24	16-Jan-25							
SW1930	Install Cable Containments	48	07-Jun-24	03-Aug-24	28-Jun-24	23-Aug-24			SW1030: FS, DS6560: FS, DS6404: FS				
SW1960	Install Equipment in Kiosk C	12	16-Jul-24	29-Jul-24	06-Nov-24	19-Nov-24			SW1050: FS, DS4340: FS, DS4440: FS				

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										Apr 28	May 29	Jun 30	Jul 31
SW1940	Install CCTV Camera	36	29-Jul-24	07-Sep-24	04-Dec-24	16-Jan-25			SW1040: SS 12, SW1930: SS 12, DS4090: FS, DS6440: FS				
<b>Portion 1 - South Apron Up to SUS</b>		66	07-Jun-24	24-Aug-24	03-Jul-24	17-Sep-24							
SW2000	Install Cable Containments - the 1st Section	48	07-Jun-24	03-Aug-24	03-Jul-24	27-Aug-24			SW1220: FS, SC2480: FF, DS6560: FS, DS6404: FS				
SW2010	Install CCTV Camera	24	29-Jul-24	24-Aug-24	21-Aug-24	17-Sep-24			SW2000: SS 42, SC1470: FF, DS4090: FS, DS6440: FS				
<b>Portion 2 - Tunnel Section, Service Gallery, WVB &amp; EVB</b>		184	02-May-24	09-Dec-24	09-Sep-24	31-Oct-26							
SW2080	Install Cable Containments	184	02-May-24	09-Dec-24	09-Sep-24	31-Oct-26			SW2300: SS, SW2400: SS, SW2510: SS, SW2600: SS, SW2720: SS				
<b>Portion 3 - CKL Branch Tunnel in TKO-LTT Site</b>		79	29-May-24	30-Aug-24	28-Jan-25	20-Mar-25							
SW2230	Install Cable Containments	36	29-May-24	11-Jul-24	07-Feb-25	20-Mar-25			SW1860: FS, SC2480: FF, DS6560: FS, DS6404: FS				
SW2220	Install CCTV Camera	29	29-Jul-24	30-Aug-24	28-Jan-25	05-Mar-25			SW1860: SS 12, SC1470: FF, DS4090: FS, DS6440: FS				
<b>Underpass S21</b>		30	29-May-24	04-Jul-24	26-Apr-25	03-Jun-25							
SW2260	Install Cable Containment	14	29-May-24	14-Jun-24	26-Apr-25	14-May-25			AC1040: SS, SC2480: FF, DS6560: FS, DS6404: FS				
SW2280	Laying of Leaky Cable	30	29-May-24	04-Jul-24	26-Apr-25	03-Jun-25			SW2260: SS				
SW2290	Laying of Power Cable From TCCS Cabinet in T2 Area	14	06-Jun-24	22-Jun-24	17-May-25	03-Jun-25			SW2260: SS 7				
SW2270	Install YAGI Antenna	7	15-Jun-24	22-Jun-24	26-May-25	03-Jun-25			SW2260: FS				
<b>Portion 4 - TKO-LTT (LT Interchange)</b>		120	02-May-24	23-Sep-24	23-May-24	19-Nov-24							
SW1020	Inspect Civil Provisions & Submit Inspection Report	12	02-May-24	16-May-24	23-May-24	05-Jun-24			AC1030: SS, DS6600: FS, DS6680: FS, DS6760: FS, DS6840: FS				
SW1030	Rectify Civil Provision Defects by Others	18	17-May-24	06-Jun-24	06-Jun-24	27-Jun-24			SW1020: FS				
<b>Installation Works</b>		120	02-May-24	23-Sep-24	28-Jun-24	19-Nov-24							
SW1040	Install Cable Containments	48	02-May-24	28-Jun-24	28-Jun-24	23-Aug-24			DS6400: FS, DS6540: FS				
SW1050	Install Equipment Racks	24	07-Jun-24	06-Jul-24	07-Sep-24	07-Oct-24			SW1030: FS				
SW1100	Install Server Equipment	36	16-Jul-24	26-Aug-24	08-Oct-24	19-Nov-24			SW1050: FS, DS4440: FS, DS4340: FS				
SW1120	Install Equipment in Kiosk C	12	16-Jul-24	29-Jul-24	06-Nov-24	19-Nov-24			SW1050: FS, DS4340: FS, DS4440: FS				
SW1060	Install CCTV Camera	36	29-Jul-24	07-Sep-24	10-Sep-24	24-Oct-24			SW1040: SS 12, SW1930: SS 12, DS4090: FS, DS6440: FS				
SW1090	Install Video Wall Equipment (Administration Building)	21	29-Jul-24	21-Aug-24	26-Oct-24	19-Nov-24			SW1040: FS 24, SW1930: SS 24, SC1330: FF, DS4440: FS, DS4340: FS, DS4440: FF				
SW1110	Install Traffic Control Devices	48	29-Jul-24	23-Sep-24	17-Aug-24	15-Oct-24			SW1040: SS 42, SW1930: SS 42, EM1030: FS, DS5920: FS, DS2810: FS, EM1650: FS				
<b>Portion 1 - South Apron Up to SUS</b>		96	02-May-24	24-Aug-24	27-May-24	17-Sep-24							
SW1210	Inspect Civil Provisions & Submit Inspection Report	12	02-May-24	16-May-24	27-May-24	08-Jun-24			AC1000: SS				
SW1220	Rectify Civil Provision Defects by Others	18	17-May-24	06-Jun-24	11-Jun-24	02-Jul-24			SW1210: FS				
<b>Installation Works</b>		66	07-Jun-24	24-Aug-24	03-Jul-24	17-Sep-24							
SW1230	Install Cable Containments - the 1st Section	48	07-Jun-24	03-Aug-24	03-Jul-24	27-Aug-24			SW1220: FS, SC2480: FF, DS6560: FS, DS6404: FS				
SW1240	Install CCTV Camera	24	29-Jul-24	24-Aug-24	21-Aug-24	17-Sep-24			SW1230: SS 42, SC1470: FF, DS4090: FS, DS6440: FS				
<b>Portion 2 - Tunnel Section, Service Gallery, WVB &amp; EVB</b>		97	02-May-24	26-Aug-24	29-Aug-24	31-Oct-26	01-Apr-24						
<b>Tunnel Section</b>		96	02-May-24	24-Aug-24	29-Aug-24	31-Oct-26							
<b>Tunnel Section - CH 6+568 to CH 7+100</b>		96	02-May-24	24-Aug-24	10-Oct-24	31-Oct-26							
SW2860	Inspect Civil Provisions & Submit Inspection Report	3	02-May-24	04-May-24	22-Oct-26	24-Oct-26			AC1050: SS				
SW2870	Rectify Civil Provision Defects by Others	6	06-May-24	11-May-24	26-Oct-26	31-Oct-26			SW2860: FS				
<b>Installation Works</b>		96	02-May-24	24-Aug-24	10-Oct-24	11-Jan-25							
SW2300	Install Cable Containment	24	02-May-24	30-May-24	10-Oct-24	07-Nov-24			SC2480: FF, DS6540: FS				



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										Apr 28	May 29	Jun 30	Jul 31
SW2350	Install Traffic Control Devices	24	29-Jul-24	24-Aug-24	13-Dec-24	11-Jan-25			SW2300: FS, SC1210: FF, EM1030: FS, DS5920: FS, DS2810: FS, EM1650: FS				
SW2360	Install VLSL	18	29-Jul-24	17-Aug-24	28-Nov-24	18-Dec-24			SW2300: SS 18, SC1210: FF, EM1030: FS, DS5920: FS, DS2810: FS, EM1650: FS				
SW2370	Install PA in Service Gallery	24	29-Jul-24	24-Aug-24	25-Oct-24	21-Nov-24			SW2300: SS 12, DS4240: FS, DS6120: FS, DS6480: FS				
<b>Tunnel Section - CH 7+100 to CH 7+600</b>		96	02-May-24	24-Aug-24	29-Aug-24	27-Dec-24							
SW2880	Inspect Civil Provisions & Submit Inspection Report	3	02-May-24	04-May-24	29-Aug-24	31-Aug-24			AC1060: SS				
SW2890	Rectify Civil Provision Defects by Others	6	06-May-24	11-May-24	02-Sep-24	07-Sep-24			SW2880: FS				
<b>Installation Works</b>		74	29-May-24	24-Aug-24	09-Sep-24	27-Dec-24							
SW2400	Install Cable Containment	24	29-May-24	26-Jun-24	09-Sep-24	08-Oct-24			SC2480: FF, SW2890: FS, DS6560: FS, DS6404: FS				
SW2410	Install PA in Service Gallery	24	29-Jul-24	24-Aug-24	24-Sep-24	23-Oct-24			SW2400: SS 12, SC1860: FF, DS4240: FS, DS6120: FS, DS6480: FS				
SW2420	Install VLSL	18	29-Jul-24	17-Aug-24	02-Oct-24	23-Oct-24			SW2400: SS 18, SC1210: FF, EM1030: FS, DS5920: FS, DS2810: FS, EM1650: FS				
SW2460	Install Traffic Control Devices	24	29-Jul-24	24-Aug-24	29-Nov-24	27-Dec-24			SW2400: SS 18, SC1210: FF, EM1030: FS, DS5920: FS, DS2810: FS, EM1650: FS				
<b>Tunnel Section - CH 7+600 to CH 8+100</b>		75	28-May-24	24-Aug-24	15-Oct-24	27-Dec-24							
SW2900	Inspect Civil Provisions & Submit Inspection Report	3	28-May-24	30-May-24	15-Oct-24	17-Oct-24			AC1070: SS				
SW2910	Rectify Civil Provision Defects by Others	6	31-May-24	06-Jun-24	18-Oct-24	24-Oct-24			SW2900: FS				
<b>Installation Works</b>		66	07-Jun-24	24-Aug-24	25-Oct-24	27-Dec-24							
SW2510	Install Cable Containment	24	07-Jun-24	06-Jul-24	25-Oct-24	21-Nov-24			SC2480: FF, EM1620: FS, SW2910: FS, DS6560: FS, DS6404: FS				
SW2520	Install VLSL	18	29-Jul-24	17-Aug-24	28-Nov-24	18-Dec-24			SW2510: SS 12, SC1210: FF, EM1030: FS, DS5920: FS, DS2810: FS, EM1650: FS				
SW2530	Install PA in Service Gallery	24	29-Jul-24	24-Aug-24	15-Nov-24	12-Dec-24			SW2510: SS 12, SC1860: FF, DS4240: FS, DS6120: FS, DS6480: FS				
SW2540	Install Traffic Control Devices	24	29-Jul-24	24-Aug-24	29-Nov-24	27-Dec-24			SW2510: SS 18, SC1210: FF, EM1030: FS, DS5920: FS, DS2810: FS, EM1650: FS				
<b>West Ventilation Building</b>		97	02-May-24	26-Aug-24	06-Nov-24	31-Oct-26	01-Apr-24						
SW1360	Inspect Civil Provisions & Submit Inspection Report	12	02-May-24	16-May-24	24-Sep-26	09-Oct-26			AC1010: SS, KD1010: FS 359				
SW1370	Rectify Civil Provision Defects by Others	18	17-May-24	06-Jun-24	10-Oct-26	31-Oct-26			SW1360: FS				
<b>Installation Works</b>		97	02-May-24	26-Aug-24	06-Nov-24	20-Jan-25	01-Apr-24						
SW1650	Install Cable Containments	24	02-May-24	20-May-24	06-Nov-24	22-Nov-24	01-Apr-24		SC2480: FF, DS6400: FS, DS6540: FS				
SW1660	Position Equipment Rack	12	21-May-24	03-Jun-24	23-Nov-24	06-Dec-24			SW1650: FS				
SW1670	Install Network Equipment	36	16-Jul-24	26-Aug-24	07-Dec-24	20-Jan-25			SW1660: FS, SC1330: FF, DS4340: FS, DS4440: FS				
SW1690	Install PABX Equipment	20	29-Jul-24	20-Aug-24	06-Nov-24	28-Nov-24			SW1650: SS 18, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS				
<b>East Ventilation Building</b>		97	02-May-24	26-Aug-24	16-Oct-24	31-Oct-26							
SW2960	Inspect Civil Provisions & Submit Inspection Report	12	02-May-24	16-May-24	24-Sep-26	09-Oct-26			AC1010: SS, KD1010: FS				
SW2970	Rectify Civil Provision Defects by Others	18	17-May-24	06-Jun-24	10-Oct-26	31-Oct-26			SW2960: FS				
<b>Installation Works</b>		97	02-May-24	26-Aug-24	16-Oct-24	20-Jan-25							
SW1750	Install Cable Containments	24	02-May-24	30-May-24	16-Oct-24	12-Nov-24			SC2480: FF, DS6400: FS, DS6540: FS				
SW1760	Position Equipment Rack	12	31-May-24	14-Jun-24	23-Nov-24	06-Dec-24			SW1750: FS				



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										Apr 28	May 29	Jun 30	Jul 31
SW1770	Install Network Equipment	36	16-Jul-24	26-Aug-24	07-Dec-24	20-Jan-25			SW1760: FS, SC1330: FF, DS4340: FS, DS4440: FS				
SW1790	Install PABX Equipment	20	29-Jul-24	20-Aug-24	06-Nov-24	28-Nov-24			SW1750: SS 18, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS				
<b>Portion 3 - CKL Branch Tunnel in TKO-LTT Site</b>		101	02-May-24	30-Aug-24	04-Jan-25	14-Mar-25							
SW1850	Inspect Civil Provisions & Submit Inspection Report	3	02-May-24	04-May-24	04-Jan-25	07-Jan-25			AC1020: SS				
SW1860	Rectify Civil Provision Defects by Others	7	06-May-24	13-May-24	08-Jan-25	15-Jan-25			SW1850: FS				
<b>Installation Works</b>		79	29-May-24	30-Aug-24	16-Jan-25	14-Mar-25							
SW1890	Install Cable Containments	36	29-May-24	11-Jul-24	01-Feb-25	14-Mar-25			SW1860: FS, SC2480: FF, DS6560: FS, DS6404: FS				
SW1870	Install CCTV Camera	29	29-Jul-24	30-Aug-24	16-Jan-25	21-Feb-25			SW1860: FS, SC1470: FF, DS4090: FS, DS6440: FS				

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