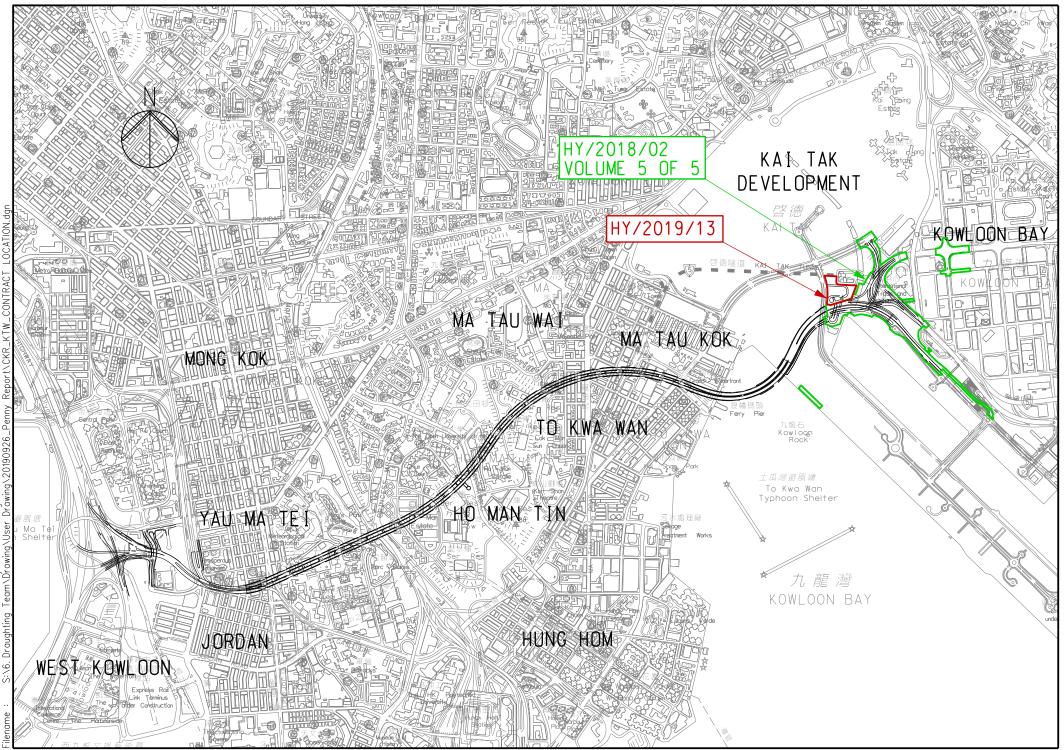
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EP-457/2013/D Central Kowloon Route Kai Tak East Contract No. HY/2018/02 &

Buildings, Electrical and Mechanical Works Contract No. HY/2019/13 (Kai Tak East Area) March 2023



Central Kowloon Route Kai Tak East Contract No. HY/2018/02





Alchmex – Paul Y Joint Venture

Central Kowloon Route Contract HY/2018/02

Section of Kai Tak East

Monthly EM&A Report No. 43

(Period from 1 to 31 March 2023)

Rev. 1 (12 April 2023)

		Name	Signature
Prepared by		Kako Ho (Assistant Environmental Consultant)	Lb
Checked Reviewed by	&	Tandy Tse (Senior Environmental Consultant)	hilly
Approved Certified by	&	Kevin W. M. Li (Environmental Team Leader)	Ki





Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

Works Contract:	Kai Tak East (HY/2018/02)
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Reference Document/Plan

Document/ Plan to be Certified/ Verified:	Monthly EM&A Report No.43 (March 2023)
Date of Report:	12 April 2023 (Rev. 1)
Date received by IEC:	12 April 2023

Reference EP Condition

Environmental Permit Condition:

Submission of Monthly EM&A Report of the Project

3.4 Four hard copies and one electronic copy of monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of each reporting month throughout the entire construction period. The EM&A Reports shall include a summary of all non-compliance. The submissions shall be certified by the ET Leader and verified by the IEC as complying with the requirements as set out in the EM&A Manual before submission to the Director. Additional copies of the submission shall be provided to the Director upon request by the Director.

3.4

IEC Verification

I hereby verify that the above referenced document/plan complies with the above referenced condition of EP-457/2013/D.

Mandy 20.

Ms Mandy To Independent Environmental Checker Date:

13 April 2023

Our ref: 0436942_IEC Verification Cert_KTE_Monthly EM&A Rpt No.43.docx

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EXECUTIVE SUMMARY

- A.1 Alchmex Paul Y Joint Venture ("Contractor") commenced the construction works of Highway Department (HyD) Central Kowloon Route Contract No. HY/2018/02 – Section of Kai Tak East ("The Project") on 9 September 2019. This report is the 43rd monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 March 2023 to 31 March 2023.
- A.2 A summary of major Construction activities provided by Contractor for the Project during the reporting month is listed below.

Construction Activities undertaken

- S1, S3, S4, S9, CKRE, CKRW Bridge Construction
- Retaining Wall Construction at U-Turn & Portion 2B
- Excavation Work at Portion 3B
- Bored Pile at U-Turn
- A.3 A summary of regular construction dust monitoring activities in this reporting period is listed below:

Construction dust (24-hour TSP) monitoring	
E-A1	5 times
Construction dust (1-hour TSP) monitoring	
E-A1	15 times

- A.4 Joint weekly site inspections were conducted by representatives of Environmental team (ET), Contractor and Engineer on 1, 8, 15, 22 and 29 March 2023. A joint site inspection with Independent Environmental Checker (IEC) was undertaken on 8 March 2023. Details of the audit findings and implementation status are presented in Section 5.
- A.5 Bi-weekly inspection of the implementation of landscape and visual mitigation measures by ET was conducted on 1, 15 and 29 March 2023. Details of the audit findings and implementation status are presented in Section 5.
- A.6 Details of waste management are presented in Section 4.
- A.7 No exceedance of the Action and Limit Levels of 24-hour TSP and 1-hour TSP monitoring were recorded during the reporting month.
- A.8 No complaint or non-compliance was received in the reporting month.
- A.9 No notification of summons and prosecution was received in the reporting period.

A.10 A summary of construction activities provided by the Contractor in next reporting month is listed below:

Construction Activities to be undertaken

- S1, S3, S4, S9 CKRE, CKRW Bridge Construction
- Retaining Wall Construction at U-Turn & Portion 2B
- Excavation Work at Portion 3B

1. BASIC PROJECT INFORMATION

- 1.1. Central Kowloon Route (CKR) is a 4.7 km long dual 3-lane trunk road in Central Kowloon linking Yau Ma Tei Interchange in West Kowloon with the road network on Kai Tak Development and Kowloon Bay in East Kowloon.
- 1.2. The Central Kowloon Route Design and Construction Environmental Impact Assessment Report (Register No.: AEIAR-171/2013) was approved with conditions by the Environmental Protection Department (EPD) on 11 July 2013. An Environmental Permit (EP 457/2013) was issued on 9 August 2013. Variations of EP (VEP) was subsequently applied for and the latest EP (EP-457/2013/D) was issued by EPD on 15 June 2021.
- 1.3. The construction of the CKR had been divided into different sections. This Contract No. HY/2018/02 Section of Kai Tak East (KTE) covers part of the construction activities located at Kai Tak under the EP which includes:
 - Section of Kai Tak East
 - i. construction of an approximately 700m long dual 2-lane Central Kowloon Route mainline at Kai Tak, including at-grade roads and bridges;
 - ii. construction of Kai Tak Interchange, including bridges, underpass, and associated at-grade slip roads, connecting the Central Kowloon Route with the existing road network;
 - iii. construction of a footbridge, and demolition/backfill of an existing subway across Kai Fuk Road;
 - iv. realignment of existing Kai Fuk Road, Kai Cheung Road and Kai Cheung Road/Kai Fuk Road loop road;
 - v. reconstruction of an approximately 30m long existing multi-cell box culvert;
 - vi. construction of an approximately 130m long underground ventilation and E&M audit;
 - vii. construction of Ring Road Underpass, connecting Central Kowloon Route mainline and Central Kowloon Route Administration Building;
 - viii. junction improvement works at existing Wang Kwong Road/Kai Cheung Road and Wang Kwong Road/Lam Hing Street junctions;
 - ix. arrangement and implementation of cross boundary disposal of construction and demolition materials; and
 - x. associated roadworks, drainage, waterworks, landscaping works, geotechnical works, and electrical and mechanical works.
- 1.4. The alignment and works area for the Contract No. HY/2018/02 are shown in Appendix A.

1.5. A summary of major construction activities provided by the Contractor in this reporting period is shown in **Table 1.1**. The construction programme is presented in **Appendix B**.

 Table 1.1
 Summary of Construction Activities during the Reporting Month

Construction Activities undertaken

- S1, S3, S4, S9, CKRE, CKRW Bridge Construction
- Retaining Wall Construction at U-Turn & Portion 2B
- Excavation Work at Portion 3B
- Bored Pile at U-Turn
- 1.6. The project organisational chart specifying management structure and contact details are shown in **Appendix C**.
- 1.7. A summary of the valid permits, licences, and /or notifications on environmental protection for this Project is presented in **Table 1.2**.

Table 1.2 Summary of the Environmental Licence, Notification, Permit and Documentations

Permit/ Licences/	Valid Period				
Notification /Reference No.	From	То	Status	Remark	
Environmental Permit					
EP-457/2013/D	15-Jun-21		Valid	-	
Wastewater Discharge Lic	ense				
WT00035029-2019	17-Dec-19	31-Dec-24	Valid	-	
Notification of Construction	on Works under	the Air Polluti	on Control (Constr	ruction Dust)	
Regulation					
445001	Apr-19	Dec-23	Notified	-	
Chemical Waste Producer			-		
WPN5113-247-A2940-01	17-May-19		Valid	-	
Billing Account for Dispos	al of Construction	on Waste			
7034073	15-Jun-19		Valid	-	
Construction Noise Permi	t				
GW-RE0874-22	17-Sep-22	16-Mar-23	Superseded by GW-RE0217-23	General Work at Area A	
GW-RE0217-23	17-Mar-23	31-Aug-23	Valid		
GW-RE0889-22	12-Sep-22	11-Mar-23	Expired in the reporting period	Portion 2B	
GW-RE0903-22	17-Sep-22	16-Mar-23	Superseded by GW-RE0272-23	General Work at Area B and Site	
GW-RE0272-23	17-Mar-23	31-Aug-23	Valid	Office	
GW-RE1327-22	7-Dec-22	6-Mar-23	Expired in the reporting period	Night Work at Kai	
GW-RE0012-23	16-Jan-23	15-Mar-23	Expired in the reporting period	Fuk & Kai Cheung Road	

45° Monuny EM&A Report					
Permit/ Licences/	Valid Period				
Notification /Reference No.	From	То	Status	Remark	
GW-RE0126-23	14 Eab 22	10 May 22	Superseded by	Night Work at Kai	
GW-KE0120-25	14-Feb-23	10-May-23	GW-RE0256-23	Fuk & Kai Cheung	
GW-RE0256-23	13-Mar-23	14-Jun-23	Valid	Road	
GW-RE1466-22	10-Jan-23	28-Jun-23	Valid	Kai Cheung U	
				Turns	
				Kai Fuk Road, Kai	
GW-RE0126-23	RE0126-23 14-Feb-23	10-May-23	Valid	Cheung Road and	
				Trademark Drive	

2. ENVIRONMENTAL STATUS

2.1. Environmental permit (EP) conditions under the EIAO, submission status under the EP and implementation status of mitigation measures had been reviewed and implemented on schedule. The status of required submissions under the EP (EP-457/2013/D) as of the reporting period for the Project are summarised in **Table 2.1**.

Table 2.1Summary of Status of Required Submission for EP-457/2013/D for the Project

EP Condition (EP-457/2013/D)	Submission	Submission date
Condition 3.4	Monthly EM&A Report (February 2023)	14 March 2023

2.2. The drawing showing the project layout and the location of the monitoring station and environmental sensitive receivers are attached in **Appendix A** and **Appendix J**. Co-ordinates of the monitoring location is shown in below:

Table 2.2	Summary for the location of monitoring station
-----------	--

Monitoring Location	Location ID	Latitude	Longitude
Hong Kong International Trade and Exhibition Centre	E-A1	22.323912	114.203512

3. AIR QUALITY MONITORING RESULTS

Monitoring Parameters

- 3.1. The impact monitoring had been carried out in accordance with section 5.8 of the approved EM&A Manual to determine the 1-hour and 24-hour total suspended particulates (TSP) levels at the monitoring locations in the reporting month.
- 3.2. The sampling frequency of at least once in every 6 days, shall be strictly observed at the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least 3 times in every 6 days should be undertaken when the highest dust impact occurs.
- 3.3. General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.

Monitoring Equipment

- 3.4. 1-hour TSP levels and 24-hour TSP had been measured with direct reading dust meter and High-Volume Samplers respectively. It has been demonstrated its capability in achieving comparable results with high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50).
- 3.5. The 1-hour TSP meter was calibrated by the manufacturer prior to purchasing. Zero response of the instrument was checked before and after each monitoring event. Operation of the 1-hour TSP meter followed manufacturer's Operation and Service Manual. The 24-hour TSP meter was calibrated against firmware 80570-8100-V1.0.4, annually. Operation of the 24-hour TSP meter followed manufacturer's Operation and Service Manual. Valid calibration certificate of dust monitoring equipment is attached in **Appendix H**.
- 3.6. A summary of the equipment that was deployed for the 24- hour averaged monitoring is shown in **Table 3.1**. The TSP monitoring was conducted as per the schedule presented in **Appendix G**.
- 3.7. The equipment used for 1-hour TSP and 24-hour TSP measurement and calibration are summarised in **Table 3.1**.

Monitoring Parameter	Monitoring Equipment	Serial Number	Date of Calibration
1-hour TSP	LD-5R Digital Dust Indicator	882110	16 October 2022
	TE-5170X High Volume Sampler	1049	3 March 2023
24-hour TSP			17 March 2023
	TE-5028A Calibration Kit	3702	29 June 2022

Table 3.1Construction Dust Monitoring Equipment

Monitoring Methodology and QA/QC results

- 3.8. The 1-hour TSP monitor, portable dust meters (Sibata Digital Dust Indicator Model LD-5R) was used for the impact monitoring. The 1-hour TSP meters provides a real time 1-hour TSP measurement based on 90° light scattering. Three 1-hour TSP level were logged per every six days.
- 3.9. The 24-hour TSP monitor, High Volume Samplers (Tisch TE-5170x High Volume Air Sampler) were used for the impact monitoring. The 24-hour TSP monitoring consists of the following:
 - The HVS was set at the monitoring location, with electricity supply connected and secured;
 - HVS was calibrated before commencing the 1st measurement;
 - The filter paper was weight and provided by HOKLAS lab (Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Ltd) before and after the sampling. Certificate of HOKLAS accredited laboratory can be referred to Appendix I;
 - The airflow over time during sampling process was recorded by the HVS.
- 3.10. HVSs were free-standing with no obstruction. The following criteria were considered in the installation of the HVS:
 - Appropriate support to secure the samples against gusty wind needed to be provided the monitoring station;
 - A minimum of 2m separation from walls, parapets and penthouses was required for rooftop samplers;
 - No furnace or incinerator flues was nearby;
 - Airflow around the sampler was unrestricted; and
 - Permission could be obtained to set up the samplers and gain access to the monitoring station.
 - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring
 - A secured supply of electricity is needed to operate the samplers.

3.11. Preparation of Filter Papers:

- Glass fiber filters were labelled and sufficient filters that were clean and without pinholes were selected;
- ♦ All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25°C and not varied by more than ±3°C; the relative humidity (RH)was 40%; and
- Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Limited, as HOKLAS accredited laboratory, implemented comprehensive quality assurance and quality control programmes on the filters.

3.12. Field Monitoring:

- The power supply was checked to ensure that the HVS was working properly;
- The filter holder and area surrounding the filter were cleaned;
- The filter holder was removed by loosening the foul bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully;
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;

- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- The shelter lid was closed and secured with an aluminum strip;
- The HVS was warmed- up for about 5 minutes to establish run- temperature conditions;
- A new flow rate record sheet was inserted into the flow recorder;
- The flow rates of the HVS was checked and adjusted to between 1.13-1.19 m3min-1, which was within the range specified in the EM&A Manual (i.e. 0.6- 1.7 m3min-1);
- The programmable timer was set for a sampling period of 24 hours ±hour, and the starting time, weather condition and filter number were recorded;
- The initial elapsed time was recorded;
- At the end of sampling, the sampled filter was removed carefully and folded in half so that only surfaces with collected particulate matter were in contact;
- The filter paper was placed in a clean plastic envelope and sealed; all monitoring information was recorded on a standard data sheet and
- The filters were sent to (Acumen Laboratory and Testing Ltd) for analysis.

3.13. Maintenance and Calibration:

- The HVS and their accessories were maintained in a good working condition. For example, motor brushes were replaced routinely and electrical wiring was checked to ensure a continuous power supply; and
- ◆ The flow rate of each HVS with mass flow controller was calibrated using an orifice calibrator, Initial calibrations of the dust monitoring equipment were conducted upon installation and prior to commissioning. Five-point calibration was carried out for HVS using TE-5025A Calibration Kit and TE-5028A Calibration KIT. HVS is calibrated in fortnightly Intervals. The calibration records for the HVS is given in **Appendix H**.
- 3.14. Wind Data Monitoring:
 - The wind speed has been recorded from Hong Kong Observatory- King's Park meteorological station, along with portable wind speed meter stand by as back up if malfunction occurred or data was not recorded from HKO.

Monitoring Locations

3.15. During the site visit, air quality monitoring station Hong Kong International Trade and Exhibition Centre had been recommended in the approved EM&A Manual. A designated air quality monitoring location was identified and agreed with IEC and EPD. Detail of the air monitoring station is described in **Table 3.2**. The location plan of air quality monitoring stations is shown in **Appendix J**.

Monitoring Station	Monitoring Location
E-A1	Hong Kong International Trade and Exhibition Centre

Table 3.2Location of the Air Quality Monitoring Station

Monitoring Date, Time, Frequency and Duration

3.16. A summary of impact monitoring duration, sampling parameter and frequency is presented in **Table 3.3**.

Table 3.3Summary of Impact Monitoring Programme

Impact Monitoring	Duration	Parameter	Frequency
Dust	1-hour continuous measurement	1-hour TSP	3 times per six days
Dust	24-hour continuous sampling	24-hour TSP	Once per six days

Result Summary

3.17. According to our field observations, the major dust source identified at the designated air quality monitoring station in the reporting month are summarised in **Table 3.4**.

Table 3.4Observation at Air Quality Monitoring Station

Monitoring Station	Major Dust Source
E-A1	Nearby traffic

- 3.18. Air quality impact monitoring for the reporting month was carried out on 4, 10, 16, 22 and 28 March 2023 at E-A1. Due to the malfunction of High Volume Sampler, the 24-hour TSP monitoring dated 3 February 2023 was rescheduled to 4 February 2023.
- 3.19. The results for 1-hour TSP and 24-hour TSP are summarized in **Table 3.5** and **Table 3.6**. The measurement data and details of influencing factors such as weather conditions and site observation are presented in **Appendix K**.

Table 3.5Summary of 1-hour TSP Monitoring Results

Monitoring Location	Range	Action	Limit
	(µg/m³)	Level(µg/m³)	Level(µg/m³)
E-A1	58.0 - 70.0	279	500

Table 3.6Summary of 24-hour TSP Monitoring Results

Monitoring Location	Range	Action Level	Limit Level
	(µg/m³)	(µg/m³)	(µg/m³)
E-A1	43 - 102	142	260

4. WASTE MANAGEMENT

4.1. The waste generated from this Project includes inert C&D materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in **Table 4.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix L**.

			Quanti	ty							
]	Non-inert C&D Materials							
Reporting period	Inert C&D Materials	Chemical Waste	Others, e.g. General Refuse	Re	cycled materi	als					
	(in '000tonnes)	(in 'kg)	disposed at Landfill (in 'kg)	Paper/ cardboard (in 'kg)	Plastics (in '000 kg)	Metals (in '000 kg)					
Mar 2023	0.30	0.00	134850.00	100.00	0.00	0.00					

Table 4.1Quantities of Waste Generated from the Project

5. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND

PROSECUTIONS

5.1. The Environmental Complaint Handling Procedure is shown in below Table 5.1.

Table 5.1 Envir	ronmental Complaint Ha	ndling Procedure	
Complaint Received via	Project Hotline	Complaint Received vi	a 1823 or from other
		government departments	
Contractor notify ER, E	T and IEC	ER notify Contractor, ET	and IEC
Contractor log complai	nt and date of receipt on	to the complaint database.	Contractor, ER and ET
	to conduct investi	gation of complaint	
If complaint is considered	ed not valid	If complaint is found val	id
ET or ER to reply the co	omplainant if necessary	Contractor to identify a	nd implement remedial
		measures in consultation	n with the IEC, ET and
		ER.	
		The ER, ET and IEC to 1	review the effectiveness
		of the Contractor's rem	edial measures and the
		updated situation; ET t	o undertake additional
		monitoring and audit to	verify the situation if
		necessary and oversee that	at circumstances leading
		to the complaint do no	t recur. ER to conduct
		further inspection as nec	essary.
If the complaint is refe	erred by the EPD, the Co	ntractor to prepare interim	report on the status of
the complaint investig	ation and follow-up action	ons stipulated above, inclu	ding the details of the
remedial measures and	additional monitoring ic	lentified or already taken,	for submission to EPD

within the time frame assigned by the EPD

The ET to record the details of the complaint, results of the investigation, subsequent actions taken to address the complaint and updated situation including the effectiveness of the remedial measures, supported by regular and additional monitoring results in the monthly EM&A reports

- 5.2. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan in **Appendix D** and **Appendix E** shall be carried out.
- 5.3. No exceedance of the Action and Limit Levels of 24-hour TSP and 1-hour TSP monitoring was recorded in the reporting month.
- 5.4. No complaint and non-compliance were received in the reporting month.
- 5.5. No notification of summons and successful prosecution was received in the reporting month.
- 5.6. Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix M**.

6. EM&A SITE INSPECTION

- 6.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, 5 site inspections were carried out by the representative of ET, Contractor and Engineer on 1, 8, 15, 22 and 29 March 2023, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 1, 15 and 29 March 2023.
- 6.2. One joint site inspection with IEC was also undertaken on 8 March 2023. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in **Table 6.1**.

Date	Environmental Observations	Follow-up Status
1 Mar 2023	NA	NA
8 Mar 2023	1. Drip tray should be provided for chemical containers in S9 Bridge.	1. Drip tray had been provided.
15 Mar 2023	NA	NA
22 Mar 2023	1. Cement bags should be covered with impervious sheeting at Ring Road 2.	1. Cement bags had been covered.
29 Mar 2023	NA	NA

Table 6.1Site Observations

- 6.3. The Contractor had rectified all observation identified during environmental site inspection in the reporting period.
- 6.4. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents had been implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix F**.

7. FUTURE KEY ISSUES

7.1. The construction activities to be undertaken in the next reporting month are:

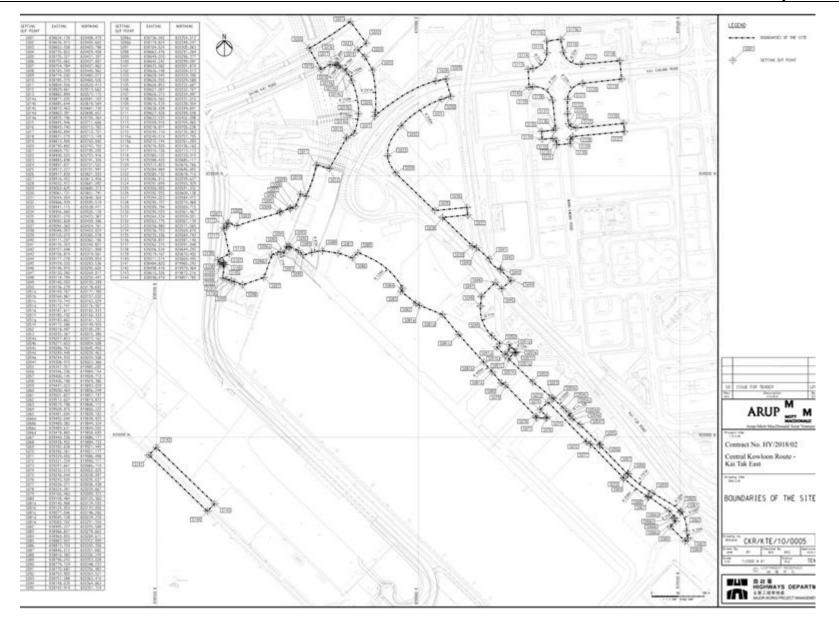
Construction Activities to be undertaken

- S1, S3, S4, S9 CKRE, CKRW Bridge Construction
- Retaining Wall Construction at U-Turn & Portion 2B
- Excavation Work at Portion 3B
- 7.2. Potential environmental impacts arising from the above construction activities are mainly associated with dust and waste management.
- 7.3. The tentative schedule of 1-hour TSP and 24-hour TSP monitoring in the next reporting period is presented in **Appendix N**.
- 7.4. The construction programme for the Project for the next reporting month is presented in Appendix B.

Conclusion and Recommendations

- 7.5. This 43rd monthly EM&A Report presents the EM&A works undertaken during the period from 1 March 2023 to 31 March 2023 in accordance with the EM&A Manual and the requirement under EP-457/2013/C and EP-457/2013/D.
- 7.6. Air quality (including 1-hour TSP and 24-hour TSP) was carried out in the reporting period. No exceedance of the Action and Limit Level was recorded for air quality impact monitoring during the reporting month.
- 7.7. Weekly environmental site inspections by the representative of ET, Contractor and Engineer were conducted during the reporting period. One joint site inspection with IEC was carried out on 8 March 2023. Minor deficiency was observed during site inspection and was rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.
- 7.8. No complaint and non-compliance situation were received in the reporting month.
- 7.9. No notification of summons or prosecution was received since commencement of the Contract.
- 7.10. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A Alignment and Works Area for the Contract No. HY/2018/02



Appendix B Construction Programme

Date: 25-Feb-23 Date: 11-Mar-23 15:5	53				Centr				//2018/02 e - Kai Tak East		Alchmex – Paul Y Joint Venture
A (Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Total Float	TRA (Day)	February 46	March April 47 48	May June 49 50
ntral Kowloon	Route - Kai Tak East (Month 46 Update) (Re	1250	30-Oct-19 A	08-Nov-23	24-Nov-22	14-May-26	745	631.00	29 05 12 19 2	6 05 12 19 28 02 09 16 23	30 07 14 21 28 04 11 18
_	S AND GENERAL REQUIREMENTS		27-Dec-22 A	23-Jun-23	27-Jan-23	09-Dec-24	434	0.00			
	s and Milestones		27-Dec-22 A		27-Jan-23			0.00			
Key Dates			22-Mar-23	16-Apr-23	12-Apr-23	16-Apr-23	0	0.00			
Sections of the Wo			22-Mar-23	16-Apr-23	12-Apr-23	16-Apr-23	0	0.00			
			22110-23		12-401-23			0.00			
G	KD11 - Section 11: Completion of the Structure of Bridge CKRE and Opening of Bridge as Haul Road (973days)			22-Mar-23*		12-Apr-23	21				
3	(D09 - Section 9: Comprises all the works in Part 3A and the vacation of part 3A (1455 days)	0		16-Apr-23*		16-Apr-23	0				
Access Dates			27-Dec-22 A	27-Mar-23	27-Jan-23	02-Aug-23	128	0.00			
	Access date for Part 3C (1345 days)		27-Dec-22 A		02-Aug-23						
AD-4A A	Access date for Part 4A (1376 days)	0	25-Feb-23*		27-Jan-23		-29		1		
AD-4C A	Access date for Part 4C (1376 days)	0	25-Feb-23*		27-Jan-23		-29		7		
AD-483 A	Access date for Part 483 (1435 days)	0	27-Mar-23*		27-Mar-23		0			•	
AD-4B1 A	Access date for Part 4B1 (1435 days)	0	27-Mar-23*		27-Mar-23		0			•	
AD-482 A	Access date for Part 4B2 (1435 days)	0	27-Mar-23*		27-Mar-23		0			•	
Independent Saf	fety Audit Scheme ACC D31(5)	0	16-Jan-23 A	16-Jan-23 A	09-Dec-24	09-Dec-24		0.00			
Safety Aduit		0	16-Jan-23 A	16-Jan-23 A	09-Dec-24	09-Dec-24		0.00			
SA-1116 8	8th Safety Audit at 6 months intervals	0	16-Jan-23 A		09-Dec-24						
Utilities Schedule	e (WSD/DSD/CLP/TG/PCCW/HKB/ATC/KT Tur	94	25-Feb-23	23-Jun-23	09-Mar-24	06-Jul-24	304	0.00			
Utilities Monthly M		94	25-Feb-23	23-Jun-23	09-Mar-24	06-Jul-24	304	0.00			
	15th Utilities monthly meeting		25-Feb-23		09-Mar-24		304				
	16th Utilities monthly meeting		28-Apr-23		11-May-24		304				
	17th Utilities monthly meeting		23-Jun-23		06-Jul-24		304				
	,,		15-Dec-22 A	18-3-423	29-Mar-23	74-0±23	81	0.00			
DESIGN AND EN								0.00			
	ks Design & Engineering	100	1500.22 A	10-30-23	07-501-25	240423	01	0.00			
DES - Kiosks			15-Dec-22 A		07-Jun-23	24-Oct-23	81	0.00			
	DES - Prepare preliminary proposal submission		15-Dec-22 A	23-Mar-23	07-Jun-23	05-Jul-23	81				
	DES - Prepare submission of design and drawings		24-Mar-23	11-Apr-23	06-Jul-23	19-Jul-23	81				
	DES - ICE checking and approval	12	12-Apr-23	25-Apr-23	20-Jul-23	02-Aug-23	81				
	DES - Project Manager checking and approval	24	26-Apr-23	24-May-23	03-Aug-23	30-Aug-23	81				
DES-1236	DES - Prepare submission of details design	12	25-May-23	08-Jun-23	31-Aug-23	13-Sep-23	81				
DES-1238	DES - ICE checking and approval	8	09-Jun-23	17-Jun-23	14-Sep-23	22-Sep-23	81				
DES-1240	DES - Project Manager checking and approval; consent to start the works	24	19-Jun-23	18-Jul-23	23-Sep-23	24-Oct-23	81				
Temporary Work	ks Design & Engineering	103	15-Dec-22 A	28-Apr-23	29-Mar-23	26-Jun-23	47	0.00			
DES - Temporary W	Vorks for Bridges	103	15-Dec-22 A	28-Apr-23	29-Mar-23	26-Jun-23	47	0.00			
DES_T05 - Temp	working platform for Bridge S7 over Kai Cheung Slip Roa	103	15-Dec-22 A	28-Apr-23	31-Mar-23	26-Jun-23	47	0.00			
Current Milestone Actual Work Critical Remaining Remaining Work	Central K	owloo			Tak Eas ith Rolli				(Rev38- CSD)	Project ID: KTE-WP38_M46 Baseline: Layout: KTE - 3 Months Rolling Programme Filter: TASK filters: 3 Months Rolling_1, KTE - Submission.	Date Rivision Chair 25-Auge 2 Submit CSD Programme Rev 32wlfh M40 Mic., 11Y 25-Sep-22 Submit CSD Programme Rev 33wlfh M41 Mic., 11YY 25-Od 22 Submit CSD Programme Rev 33wlfh M43 Mic., 11YY 25-Marcl 25D Programme Rev 33wlfh M43 Mic., 11YY 15-Dace 22 Submit CSD Programme Rev 33wlfh M43 Mic., 11YY 15-Dace 22 Submit CSD Programme Rev 33wlfh M44 Mic., 11YY
										Page 1 of 19	20-Jan-23 Submit CSD Programme Rev 37with M45 Mon TYY

vity ID	Activity Name	Orig Dur Stat	Finish	Lale Start	Late Finish	Total Float	TRA (Day	February 46	March 47		April 48		May 49		Jun 50)
DES-1324	DES - Prepare preliminary proposal submission	36 15-Dec-22 A	27-Feb-23	31-Mar-23	01-Apr-23	29	-	29 05 12 19	26 05 12	19 26 0	2 09 16	23 30	07 14	21 28	04 11	18 25
DES-1326	DES - ICE checking and approval	24 28-Feb-23	27-Mar-23	28-Apr-23	27-May-23	47										
DES-1328	DES - Project Manager checking and approval; consent to start the Portal	24 28-Mar-23	28-Apr-23	29-May-23	26-Jun-23	47										
	works mp working platform for Bridge S2 & S8 over KF Rd & KC Rd	79 15-Dec-22 A	27-Mar-23	31-Mar-23	05-May-23	29	0.0									
DES-1330	DES - Prepare preliminary proposal submission	24 15-Dec-22 A	14-Jan-23 A		31-Mar-23	2.5	0.01									
DES-1332	DES - ICE checking and approval	24 16-Jan-23 A	27-Feb-23	31-Mar-23	01-Apr-23	29										
DES-1334	DES - Project Manager checking and approval; consent to start the Portal works	24 28-Feb-23	27-Mar-23	03-Apr-23	05-May-23	29										
DES_T17 - ELS	S Design for Bridge S8 - 8A-S8 to 8D-S8	103 15-Dec-22 A	28-Apr-23	29-Mar-23	01-Jun-23	27	0.00									
DES-1378	DES - Prepare preliminary proposal submission	36 15-Dec-22 A	04-Feb-23 A	29-Mar-23	29-Mar-23											
DES-1380	DES - ICE checking and approval	12 06-Feb-23 A	27-Mar-23	29-Mar-23	03-May-23	27										
DES-1382	DES - Project Manager checking and approval; consent to start the ELS works	24 28-Mar-23	28-Apr-23	04-May-23	01-Jun-23	27					: :	_				
CONSTRUCT	ION	1250 30-Oct-19 A	08-Nov-23	24-Nov-22	14-May-26	745	631.00									
Major Tempo	rary Traffic Management Scheme															
TTM Scheme fo	or Kai Cheung Road	10 26-Apr-23	09-May-23	12-Jun-23	24-Jun-23	38	0.0									
KOR-TTA-2	TTA - Kai Cheung Road - Stage 2	0 26-Apr-23		24-Jun-23		48						•				
KCR-TTA-U-1	TTA - Kai Cheung Road - Stage U-1 (Night works) (Span 7B to 7C)	0 09-May-23		12-Jun-23		28							•			
TTM Scheme fo	or Kai Fuk Road	82 01-Mar-23	12-Jun-23	14-Mar-23	14-Jun-23	2	0.00									
KFR-TTA-2C	TTA - Kai Fuk Road - Stage 2C, (Span 2A to 2B)	0 01-Mar-23		14-Mar-23		11			Ļ							
KFR-TTA-2D	TTA - Kai Fuk Road - Stage 2D, (Night Work) (Span 2B to 2C)	0 07-Mar-23		20-Mar-23	-	11										
KFR-TTA-3B	TTA - Kai Fuk Road - Stage 3B (for additional Temporary Relocation of Bus	0 11-Apr-23		17-Mar-23		-17										
KFR-TTA-4.0	Stop)					-17						_				
	TTA - Kai Fuk Road - Stage 4.0 (KFR westbound to connect KCR Stage 2)	0 26-Apr-23		04-Apr-23								•				
KFR-TTA-2E	TTA - Kai Fuk Road - Stage 2E, (Night Work) (Span 2D to 2E)	0 01-Jun-23		14-Jun-23		11								T		
KFR-TTA-4.1A	TTA - Kai Fuk Road - Stage 4.1A (KFR Eastbound - with on-street bus stop)	0 12-Jun-23		17-Mar-23		-68									-	
	I the Works of the Site, except Section 2 to 17															
Sch_1 Prelimin	naries Works	99 31-Dec-22 A	25-Apr-23	01-Apr-23	23-Jun-23	49	0.00									
Site Establishn	ment Works	99 31-Dec-22 A	25-Apr-23	01-Apr-23	23-Jun-23	49	0.00									
Temporary Wo	orks for Early Commencement of 8A Pilling Works	76 31-Dec-22 A	25-Apr-23	01-Jun-23	01-Jun-23	30	0.00									
Temp Pilling F	Platform for 8A Pilling Works	76 31-Dec-22 A	25-Apr-23	01-Jun-23	01-Jun-23		0.0									
1-1622	8A - Pilling platform - completion of 8A bored pile	0 31-Dec-22 A		01-Jun-23												
1-1624	8A - Pilling platform - exc to 7.5mPD for 8A pile cap and RW CKR-c	0 25-Apr-23		01-Jun-23		30						•				
Temporary Wo	orks for Early Commencement of 8B Pilling Works	99 05-Jan-23 A	24-Apr-23	01-Apr-23	23-Jun-23	49	0.0									
1-1650	8B - completion of piling 8A and demobilization	0 05-Jan-23 A		01-Apr-23												
1-1652	8B - backfiling (from 7mPD to 10mPD) and install concrete blk wall	10 06-3an-23 A	14-Jan-23 A	01-Apr-23	01-Apr-23											
1-1654	8B - temp carriwagway; bituminous pavement	2 16-Jan-23 A	17-Jan-23 A	01-Apr-23	01-Apr-23											
1-1656	88 - temp canwagway, oldimicus pavement. 88 - temp road diversion on 8A and retaining wall S2	2 10-Jan-23 A			01-Apr-23											
			21-301-23 A		0194pr-23	20										
1-1660	after SB - completion of piling SB and demobilization	0 30-Mar-23		10-May-23		30				•						
1-1662	after 8B - (re)excavation and ELS installation for 8A pile cap, pier and RW-CKRC		24-Apr-23	10-May-23	31-May-23	30						-				
1-1664	after 88- site formation preparation for retaining wall road pavement	5 30-Mar-23	04-Apr-23	17-Jun-23	23-Jun-23	62										
												1	Date	Revision		Checked App
Current Miles		owloon Rout	to - Kai	Tak Fac	et (Mont	h 46	Unde	e) (Rev38- CSD)	Project ID: KTE-WF Baseline:	238_M46		254	ug-22 Submit	CSD Programme Re	v 32with M40 Mon v 33with M41 Mon	TYY DC
Critical Rema	eining Work				ing Proc			(Nevso- CSD)	Layout: KTE - 3 Mo			25-0	Ad-22 Submit	CSD Programme Re	v 34with M42 Mon	TYY DC
Remaining V	Work					jiann			Filter: TASK filters:	3 Months Rolling_1,	KTE - Submission.	15-0	eo-22 Submit	CSD Programme Re	v 35with M43 Mon v 36with M44 Mon v 37with M45 Mon	TYY DC
													an-23 Submit			

	Activity Name	Orig Dur					Float		2 29 05 12 19	26 05 12 19 26 02 09 16 23	30 07 14 21 28 04 11 18
Sch_3.1 Bridge	S1 Works	54	20-Mar-23	27-May-23	04-Jan-24	22-Jul-24	339	8.00			
S1 - Miscellane	eous Works	54	20-Mar-23	27-May-23	04-Jan-24	22-Jul-24	339	8.00			
3.1-2382	BEM - S1 - Install Profile barrier / Parapet Wall / Planter / TCSS duct (L)	33	20-Mar-23	02-May-23	04-Jan-24	17-Feb-24	235	5.00			3
3.1-2383	S1 - End wall construction (Abutment)	24	11-Apr-23	09-May-23	13-Jun-24	11-Jul-24	345				
3.1-2392	S1 - Movement Joint	12	03-May-23	16-May-23	27-Jun-24	11-Jul-24	339	2.00			
3.1-2394	S1 - Road pavement (Base Course)	9	17-May-23	27-May-23	12-Jul-24	22-Jul-24	339	1.00			
Sch_3.2 Bridge	S2 Works	359	19-May-22 A	14-Jul-23	23-Feb-23	15-Aug-23	27	44.00			
S2 - Piling Wo	rks	140	25-Nov-22 A	23-May-23	01-Apr-23	29-Jun-23	30	2.00			
Piling Works -	Pier P-8A	140	25-Nov-22 A	23-May-23	01-Apr-23	29-Jun-23	30	2.00			
3.2-2523	S2 - Mobilisation	6	25-Nov-22 A	01-Dec-22 A	01-Apr-23	01-Apr-23					
3.2-2524	S2 - Bored Piles for 8A (1nr) (Left-in casing)	43	02-Dec-22 A	31-Dec-22 A	01-Apr-23	01-Apr-23		2.00			
3.2-2525	S2 - Demobilisation	6	31-Dec-22 A	05-Jan-23 A	01-Apr-23	01-Apr-23					
3.2-2526	S2 - 8A Proof drilling & Piles testing	24	25-Apr-23	23-May-23	01-Jun-23	29-Jun-23	30	0.00			
S2 - Pile Caps,	Pier / Abutment	359	19-May-22 A	14-Jul-23	23-Feb-23	15-Aug-23	27	20.00			
Pier 2B		29	19-May-22 A	09-Feb-23 A	23-Feb-23	23-Feb-23		3.00			
3.2-2550	S2 - Construct Pier P-2B (3 Lifts)	29	19-May-22 A	09-Feb-23 A	23-Feb-23	23-Feb-23		3.00			
Pier 2DL/2DR		29	18-Oct-22 A	08-Feb-23 A	12-Jul-23	12-Jul-23		3.00			
3.2-2574	S2 - Construct Pier P-2DR (3 Lifts)	29	18-Oct-22 A	08-Feb-23 A	12-Jul-23	12-Jul-23		3.00			
Pier 2EL/2ER			06-Jun-22 A	22-Mar-23	23-May-23	17-Jun-23	69	5.00			
3.2-2592	S2 - Construct Pier P-2EL (3 Lifts)	29	06-Jun-22 A	10-Mar-23	23-May-23	06-Jun-23	69	3.00			
3.2-2590	S2 - Construct Pier P-2ER (2 Lifts)	20	18-Jul-22 A	22-Mar-23	07-Jun-23	17-Jun-23	69	2.00			
Abutment 2F			25 .Feb -23	20-Mar-23	31-May-23	23-Jun-23	75	0.0			
3.2-2602A	S2 - Construct Abutment A-2F (final pour)		25-Feb-23	20-Mar-23	31-May-23		75				
Pier 8A		62		14-Jul-23	02-Jun-23	15-Aug-23	27	9.00			
3.2-2604	S2 - Install sheetpile for pile cap 8A	5		05-May-23	02-Jun-23	07-Jun-23	27	1.0			
3.2-2606	S2 - Excavation down to formation level C-8A		06-May-23	18-May-23	08-Jun-23	20-Jun-23	27	2.00			
3.2-2608	S2 - Prepare pile head (1 nr) C-8A	5		24-May-23	21-Jun-23	27-Jun-23	27	1.00			
3.2-2610	S2 - Construct pie cap C-8A		25-May-23	08-Jun-23	28-Jun-23	12-Jul-23	27	2.00			
3.2-2612	S2 - Construct Pier P-8A (3 Lifts)	29		14-Jul-23	13-Jul-23	15-Aug-23	27	3.00			
	S2 - CONSULTING PROV (S DIES)		06-Feb-23 A	08-3ul-23	23-Feb-23	27-Jul-23	16	22.00			
S2 - Deck			28-Mar-23	08-Jul-23	25-Mar-23	27-Jul-23	16	16.00			
S2 Span (L)			28-Mar-23	08-Jul-23	25-Mar-23	27-Jul-23	-15				
	(L)-28(L) (Stage 1)										
3.2-2624	S2 - Span 2A-2B formworks on temp steel deck		28-Mar-23	21-Apr-23	25-Mar-23	19-Apr-23	-2	4.00			
3.2-2626	S2 - Span 2A-2B Install Bearings	6		03-May-23	24-Apr-23	29-Apr-23	-2	2.00			
3.2-2630	S2 - Span 2A-2B(L) Web and Soffit	12		02-Jun-23	02-May-23	15-May-23	-15	2.00			
3.2-2634	S2 - Span 2A-2B(L) Deck Section	12	24-Jun-23	08-Jul-23	06-Jun-23	19-Jun-23	-15	2.00			
3.2-2642	S2 - Span 2B to 2C Erect Steel Portal (over Kai Cheung Road) Night works (6	14	22-Apr-23	09-May-23	06-May-23	22-May-23	11	2.00			
											Date Revision Checker
Current Mile Actual Work		owloa	n Rout	e.Kai	Tak Eag	st (Mont	h 46	Inde	te) (Rev38- CSD)	Project ID: KTE-WP38_M46 Baseline:	25-Aug-22 Submit CSD Programme Rev 32with M40 Mon TYY 25-Sep-22 Submit CSD Programme Rev 33with M41 Mon TYY
Critical Rema	aning Work	01100				ing Pro			(1.6700-00D)	Layout: KTE - 3 Months Rolling Programme	25-Oct-22 Submit CSD Programme Rev 34with M42 Mon TYY 25-Nov-22 Submit CSD Programme Rev 35with M43 Mon TYY
Remaining V	VOR					3				Filter: TASK filters: 3 Months Rolling_1, KTE - Submission.	15-Dec-22 Submit CSD Programme Rev 35with M44 Mon TYY

	Activity Name	Orig Dur	Stat	Finish	Lale Start	Late Finish	Total Float	TRA (Day	46	47 48	49 50 30 07 14 21 28 04 11
3.2-2642A	S2 - Span 2B to 2C fabrication Steel Portal (over Kai Cheung Road) Day works	12	22-Apr-23	06-May-23	09-May-23	22-May-23	13		29 05 12 19 26	05 12 19 26 02 09 16 23	30 07 14 21 28 04 11
3.2-2644	(6) S2 - Span 2B-2C Falsework and formworks	14	10-May-23	25-May-23	23-May-23	08-Jun-23	11	2.0			
S2 - Span 2C((L)-2D(L) (Stage 3)	14	10-Jun-23	27-Jun-23	12-Jul-23	27-Jul-23	25	2.0			
3.2-2660	S2 - Span 2C-2D Falsework and formworks	14	10-Jun-23	27-Jun-23	12-Jul-23	27-Jul-23	25	2.0			
S2 Span (R)			03-Jun-23	08-Jul-23	16-May-23	11-Jul-23	2	6.0			
	(R)-2B(R) (Stage 1)		03-Jun-23	08-30-23				4.0			
3.2-2628	S2 - Span ZA-2B(R) Web and Soffit	17	03-Jun-23	23-Jun-23	16-May-23	05-Jun-23	-15	2.0			
3.2-2632	S2 - Span 2A-2B(R) Deck Section		24-Jun-23	08-Jul-23	21-Jun-23	06-Jul-23	-15	2.0			
			10-1 m-23	0890123	24-) m-23	11-34-23	-2	2.0			
	(R)-2C(R) (Stage 2)			27-3011-23				2.0			
3.2-2645	S2 - Span 2B-2C Falsework and formworks		10-Jun-23	27-Jun-23	24-Jun-23	11-Jul-23	11	2.0			
	Working Platform over KCR (Loop Rood)		06-Feb-23 A		23-Feb-23	05-May-23	-15	0.0			
3.2-3400	S2 - Span 2A to 2C temp platform - construct RC footing and erect steel tower (at 2A pier) (DRM)		06-Feb-23 A	28-Feb-23	14-Mar-23	16-Mar-23	14				
3.2-3401	S2 - Span 2A to 2C temp platform - construct RC footing and erect steel tower (M1) (DRM)	18	13-Feb-23 A	15-Mar-23	27-Feb-23	16-Mar-23	1				
3.2-3403	S2 - Span 2A to 2C temp platform - construct RC footing and erect steel tower (M2)(at 2B pier)	18	13-Feb-23 A	25-Mar-23	23-Feb-23	23-Mar-23	-2				
3.2-3408	S2 - Span 2A to 2C temp platform - temp steel deck (2A-M1) (DRM)	7	16-Mar-23	23-Mar-23	17-Mar-23	24-Mar-23	1				
3.2-3409	S2 - Span 2A to 2C temp platform - temp steel deck (M1-M2)	7	27-Mar-23	03-Apr-23	24-Mar-23	31-Mar-23	-2				
3.2-3405	S2 - Span 2A to 2C temp platform - construct RC footing and erect steel tower (M3)	16	26-Apr-23	15-May-23	04-Apr-23	26-Apr-23	-15				
3.2-3411	S2 - Span 2A to 2C temp platform - temp steel deck (M2-M3) - nightwork	7	16-May-23	23-May-23	27-Apr-23	05-May-23	-15				
ch_3.3 Bridge	e S3 Works	129	28-Nov-22 A	31-May-23	12-Aug-23	13-Jul-24	329	15.0			
3 - Pile Caps,	Pier / Abutment	10	15-Dec-22 A	28-Dec-22 A	12-Aug-23	12-Aug-23		1.0			
Abutment 3A-		10	15-Dec-22 A	28-Dec-22 A	12-Aug-23	12-Aug-23		1.0			
3.3-2828	S3 - A-3A-S3 Install Permeate Membrane and Baddfill	10	15-Dec-22 A	28-Dec-22 A	12-Aug-23	12-Aug-23		1.0			
i3 - Deck		77	28-Nov-22 A	02-May-23	12-Aug-23	09-Feb-24	234	14.0			
53 - Span 3A-3	3E	73	28-Nov-22 A	02-May-23	12-Aug-23	09-Feb-24	234	8.0			
3.3-2856	S3 - Span 3A-3E Falsework and formwork		28-Nov-22 A			12-Aug-23		4.0			
3.3-2858	S3 - Span 3A-3E Install Bearings		12-Dec-22 A			12-Aug-23		2.0			
3.3-2860	S3 - Span 3A-3E Web and Soffit		07-Jan-23 A		-	12-Aug-23	-	1.0			
3.3-2862	S3 - Span SASE Web and Solin. S3 - Span SASE Deck Section		12-Feb-23 A			29-Aug-23		1.0			
3.3-2862	53 - Span 3A-3E Deox Section S3 - Span 3A-3E Remove Falsework, Formwork and Trusses		12-Peb-23 A	02-May-23	29-Aug-23 27-Jan-24	09-Feb-24	234	0.0			
											.
53 - Span 3E-3			13-Feb-23 A	02-May-23	12-Aug-23	13-Oct-23	136	6.0			
3.3-2878	S3 - Span 3E-3D Falsework and formworks		13-Feb-23 A		-	12-Aug-23		4.0			
3.3-2882	S3 - Span 3E-3D Web and Soffit		25-Feb-23 A		12-Aug-23	28-Aug-23	136	1.0			
3.3-2884	S3 - Span 3E-3D Deck Section	14		29-Mar-23	29-Aug-23	13-Sep-23	136	1.0			
3.3-2872	S3 - C-Sapn 3A-3E Post-tensioning and Grouting (Stage 1)	12	30-Mar-23	17-Apr-23	14-Sep-23	27-Sep-23	136				
3.3-2888	S3 - Span 3E-3D Remove Falsework, Formwork and Trusses	12	18-Apr-23	02-May-23	28-Sep-23	13-Oct-23	136	0.0			•
3 - Miscellano	eous Works	24	03-May-23	31-May-23	15-Jun-24	13-Jul-24	329	0.0			
3.3-2893	S3 - End wall construction (Abutment)	24	03-May-23	31-May-23	15-Jun-24	13-Jul-24	329				
ch_3.4 Bridge	e S4 Works	338	03-Jan-22 A	03-Aug-23	17-Feb-23	02-May-24	217	57.0			
Current Mile										Project ID: KTE-WP38_M46	Date Revision 25-Aug-22 Submit CSD Programme Rev 32with M40 Mon 1
Actual Work	ening Work Central Ke	owloo								Baseline: .ayout: KTE - 3 Months Rolling Programme	25-Sep-22 Submit CSD Programme Rev 33with M11 Mon T 25-Oct-22 Submit CSD Programme Rev 34with M42 Mon T
Remaining V	Nork		Thr	ee Mon	th Roll	ing Pro	gram	me		ilter: TASK filters: 3 Months Rolling_1, KTE - Submission.	25-Nov-22 Submit CSD Programme Rev 35with M43 Mon 1 15-Dec-22 Submit CSD Programme Rev 39with M44 Mon 1
	1										aubmit Gau mogramme rev aowth M44 Mon 1

9	Activity Name	Orig Dur Start	Finish	Lale Start	Late Finish	Total Float	TRA (Day)	February 46	March April 48		May 49			June 50	_
54 - Pile Caps	, Pier / Abutment	338 03-Jan-22 A	03-Aug-23	20-Feb-23	24-Jul-23	-9	19.00	29 05 12 19	26 05 12 19 28 02 09	16 23 3	0 07 1	21	28 04	11 18	25
Abutment A-4		123 03-Mar-23	03-Aug-23	22-Feb-23	24-Jul-23	-9	16.00								
3.4-3048	S4 - A-4A-S3 ELS	10 03-Mar-23	15-Mar-23	22-Feb-23	04-Mar-23	-9	2.00								
3.4-3050	S4 - Excavation Down to Formation Level A-4A-S4	19 15-Mar-23	11-Apr-23	06-Mar-23	27-Mar-23	-9	3.00								
3.4-3052	S4 - Prepare pile head (10 nrs) A-4A-54	21 11-Apr-23	06-May-23	28-Mar-23	25-Apr-23	-9	1.00				_				
3.4-3054	S4 - Construct Abutment Base A-4A-54	29 06-May-23	10-Jun-23	26-Apr-23	31-May-23	-9	4.00								
3.4-3056	S4 - Construct Abutment: A-1A-S4	44 10-Jun-23	03-Aug-23	01-Jun-23	24-Jul-23	-9	6.00								
Pier 4F-S4		29 15-Jun-22 A	31-Jan-23 A		03-Mar-23		3.00								
3.4-3122	S4 - Construct Pier 4F-S4 (3 Lifts)	29 15-hin-22 A			03-Mar-23		3.00								
Pier 4G-S4		19 03-Jan-22 A	08-Mar-23	20-Feb-23	02-Mar-23	-5	0.00								
3.4-3132A	S4 - Construct Pier 4G-S4 (2 Lifts)	19 03-Jan-22 A		20-Feb-23	02-Mar-23	-5	0.00								
54 - Deck		173 25-Nov-22 A		17-Feb-23	02-May-24	243	38.00								
		123 15-Dec-22 A		17-Feb-23	11-Jul-23	39	9.00								
S4-Span (L)		77 15-Dec-22 A			11-50-23	39	9.00								
54- Span 4B- 3.4-3178	4K(L) (Stage 1) S4 - Span 4B(A) - 4K(A) Post-tensioning (Stage 1)	6 15-Dec-22 A			15-Mar-23 21-Feb-23	-3	0.00								
							0.00								
3.4-3174b	S4 - Stitch Joint at 4K(A)-Web and Soffit (DRM)	13 21-Dec-22 A		22-Feb-23	02-Mar-23	-3									
3.4-3180	S4 - Span 4B(A) - 4K(A) Remove Falsework, Formwork and Trusses	12 25-Feb-23	10-Mar-23	21-Feb-23	06-Mar-23	-4	0.00								
3.4-3176b	S4 - Stitch Joint at 4K(A)- Deck Section (DRM)	11 07-Mar-23	18-Mar-23	03-Mar-23	15-Mar-23	-3									
3.4-3282	S4 - Span 4K(A)-4J Deck Section	12 15-Dec-22 A			02-Mar-23		1.00								
3.4-3283	S4 - Span 4K(A)J-4J Post-tensioning (Stage 2)	12 04-Jan-23 A	31-Mar-23	16-Mar-23	23-Mar-23	-7	0.00								
3.4-3280a	S4 - Span 4K(A)-4J Web and Soffit (Stitch span) (DRM)	12 17-Feb-23 A	09-Mar-23	17-Feb-23	01-Mar-23	-7									
3.4-3282a	S4 - Span 4K(A)-4J Deck Section (Stitch span) (DRM)	12 10-Mar-23	23-Mar-23	02-Mar-23	15-Mar-23	-7									
3.4-3284	S4 - Span 4K(A)-4J Remove Falsework and Formwork	12 01-Apr-23	19-Apr-23	12-Jun-23	26-Jun-23	55	0.00			-					
3.4-3286	S4 - Span 43-2A Falsework and formworks	19 25-Feb-23	18-Mar-23	21-Feb-23	14-Mar-23	-4	3.00	F							
3.4-3288	S4 - Span 4J-2A Install Bearings	8 25-Feb-23	06-Mar-23	06-Mar-23	14-Mar-23	7	2.00	-							
3.4-3290	S4 - Span 4J-2A Web and Soffit	14 23-Mar-23	12-Apr-23	15-Mar-23	30-Mar-23	-7	2.00								
3.4-3292	S4 - Span 4J-2A Deck Section	15 13-Apr-23	29-Apr-23	31-Mar-23	21-Apr-23	-7	1.00			_					
3.4-3296	S4 - Span 4J-2A Post-tensioning (Stage 3)	7 02-May-23	09-May-23	22-Apr-23	29-Apr-23	-7	0.00			•	-				
3.4-3298	S4 - Span 43-2A Remove Falsework and Formwork	12 10-May-23	23-May-23	27-Jun-23	11-Jul-23	39	0.00					_			
S4-Dpan (R)		173 25-Nov-22 A	04-Jul-23	30-Mar-23	02-May-24	243	29.00								
S4- Span 4B-	-4K(R) (Stage 1)	12 15-Dec-22 A	21-Dec-22 A	17-Apr-23	17-Apr-23		0.00								
3.4-3190	S4 - Span 4B(B) - 4K(B) Post-tensioning (Stage 1)	12 15-Dec-22 A	21-Dec-22 A	17-Apr-23	17-Apr-23		0.00								
S4- Span 4K-	-4E(R) (Stage 2)	94 25-Nov-22 A	24-Mar-23	17-Apr-23	02-May-24	322	6.00								
3.4-3210	S4 - Span 4K(B)-4E Install Bearings	8 25-Nov-22 A	03-Dec-22 A	17-Apr-23	17-Apr-23		2.00								
3.4-3212	S4 - Span 4K(B)-4E Web and Soffit	26 01-Dec-22 A	17-Jan-23 A	17-Apr-23	17-Apr-23		3.00								
3.4-3214	S4- Span 4K(B)-4E Deck Section	10 18-Jan-23 A	20-Feb-23 A	17-Apr-23	17-Apr-23		1.00								
								n i di di <mark>d</mark>		: :					
Current Mile									Project ID: KTE-WP38_M46		Date 25-Aug-22 Su	ibmit CSD Program	Revision nme Rev 32with M4	O Mon TYY	ed Ap DC
Actual Work		I Kowloon Rou) (Rev38- CSD)	Baseline: Layout: KTE - 3 Months Rolling Programme		25-Oct-22 Su	ibmit CSD Program ibmit CSD Program	nme Rev 34with M	I2 Mon TYY	DC DC
Remaining		Th	ree Mor	ith Roll	ing Prog	Iramr	ne		Filter: TASK filters: 3 Months Rolling_1, KTE - Submiss	ion.	25-Nov-22 Su	ibmit CSD Program ibmit CSD Program	nme Rev 35with M4	3 Mon TYY	DC
									Page 5 of 19		20-Jan-23 Su	ibmit CSD Program	nme Rev 37with Ma nme Rev 38with Ma	5 Mon TYY	DC

3.4-3218 54- Span 4E-4F(3.4-3222 3.4-3220 3.4-3224 3.4-3226 3.4-3226 3.4-3226 3.4-3220 3.4-3232 54- Span 4E-4C(S4 - Span 4K(8)-4E Post-kmisioning (Stage 2) S4 - Span 4K(8)-4E Remove Patework, Romwork and Truzes (R) (Stage 3) S4 - 4E-4F Indtal Bearings S4 - Span 4E-4F Indexnok and formworks S4 - Span 4E-4F Meb and Sofft S4 - Span 4E-4F Web and Sofft at 4E	12 25 Feb-23 12 25 Feb-23 12 11 Mar-23 8 01 Feb-23 A 23 01 Feb-23 A 23 01 Feb-23 A 16 06 Mar-23 10 24 Mar-23	10-Mar-23 24-Mar-23 19-May-23 09-Feb-23 A 04-Mar-23 23-Mar-23	17-Apr-23 18-Apr-24 30-Mar-23 12-Apr-23 30-Mar-23	29-Apr-23 02-May-24 17-01-23 12-Apr-23	Float 39 322 124	0.00	05 12 19	26 05	12 19	26 02	09 16	23 3	0 07	14 2	28	04 11	18	2.
S4- Span 4E-4F(3.4-3222 3.4-3220 3.4-3224 3.4-3226 3.4-3226 3.4-3226a 3.4-3226a 3.4-3226a 3.4-3230 3.4-3232 S4- Span 4F-4C((R) (Slange 3) 54 -4E-4F Indtal Boarings 54 -5gan 4E-4F Palework and formworks 54 -5gan 4E-4F Web and Sofft 54 -5gan 4E-4F Deck Sottion	88 01-Feb-23 A 8 01-Feb-23 A 23 01-Feb-23 A 16 06-Mar-23	19-May-23 09-Feb-23 A 04-Mar-23	30-Mar-23 12-Apr-23	17-Ott-23	322 124	0.00												
3.4-3222 3.4-3220 3.4-3224 3.4-3226 3.4-3226a 3.4-3230 3.4-3232 S4- Span 4F-46(54 - 4E-4F Indail Bearings 54 - Span 4E-4F Riekevski and formworks 54 - Span 4E-4F Web and Soffit 54 - Span 4E-4F Deck Sottion	23 01-Feb-23 A 16 06-Mar-23	04-Mar-23		17-Oct-23 12-Apr-23	124	9.00												
3.43220 3.43224 3.43226 3.43226a 3.43226a 3.43230 3.43230 54- Span 4F-46(S4 - Span 4E-4F Halaework and formworks S4 - Span 4E-4F Web and Soffit S4 - Span 4E-4F Deck Section	23 01-Feb-23 A 16 06-Mar-23	04-Mar-23		12-Apr-23														
3.4-3224 3.4-3226 3.4-3226a 3.4-3226a 3.4-3230 3.4-3230 3.4-3232 S4- Span 4F-46(54 - Span 4E-4F Web and Soffit 54 - Span 4E-4F Deck Section	16 06-Mar-23					2.00												
3.4-3226 3.4-3226a 3.4-3230 3.4-3232 3.4-3232 54- Span 4F-46(S4 - Span 4E-4F Deck Section		23-Mar-23		11-Apr-23	28	4.00												
3.4-3226 3.4-3226a 3.4-3226a 3.4-3230 3.4-3232 54- Span 4F-46(S4 - Span 4E-4F Deck Section			12-Apr-23	29-Apr-23	28	2.00												
3.4-3224a 3.4-3226a 3.4-3230 3.4-3232 S4- Span 4F-4G(04-Apr-23	13-May-23	24-May-23	38	1.00												
3.4-3230 3.4-3232 S4- Span 4F-4G(10 24-Mar-23	04-Apr-23	02-May-23	12-May-23	28													
3.4-3230 3.4-3232 S4- Span 4F-4G(S4 - Stitich joint - Span 4E-4F Deck Section at 4E	10 06-Apr-23	20-Apr-23	13-May-23	24-May-23	28					_								
3.4-3232 54- Span 4F-4G(S4 - Span 4E-4F Post-tensioning (Stage 3)	12 21-Apr-23	05-May-23	25-May-23	08-Jun-23	28	0.00							-					
54- Span 4F-4G(S4 - Span 4E-4F Remove Palsework and Formwork	12 06-May-23	19-May-23	04-0d-23	17-0d-23	124	0.00								_				
		12 001/18/23	194409-25	09-May-23	08-Aug-23	20	7.00												
	(K) (Stage 4) 54 - Soan 4E-4G Fakework and formworks	18 27-Mar-23	20-Apr-23	09-May-23	30-May-23	30	3.00												
	S4 - Span 4F-4G Install Bearings	8 21-Apr-23	29-Apr-23	31-May-23	08-Jun-23	32	2.00												
	S4 - Span 4F-4G Web and Soffit	14 06-May-23	22-May-23	09-Jun-23	26-Jun-23	28	1.00												
	S4 - Span 4F-4G Deck Section	10 23-May-23	03-Jun-23	27-Jun-23	08-Jul-23	28	1.00												
	S4 - Span 4F-4G Post-tensioning (Stage 4)	12 05-Jun-23	17-Jun-23	10-Jul-23	22-Jul-23	28	0.00											-	
3.4-3246	S4 - Span 4F-4G Remove Falsework and Formwork	12 19-Jun-23	04-Jul-23	26-Jul-23	08-Aug-23	30	0.00												1
							7.00												
3.4-3248	S4- Span 4G-4H Falsework and formworks	16 09-Mar-23	27-Mar-23	25-May-23	13-Jun-23	61	3.00		•		•								
3.4-3250	S4- Span 4G-4H Install Bearings	8 28-Mar-23	06-Apr-23	14-Jun-23	23-Jun-23	61	2.00												
3.4-3252	S4- Span 4G-4H Web and Soffit	14 11-Apr-23	26-Apr-23	24-Jun-23	11-Jul-23	61	1.00					_							
3.4-3254	S4- Span 4G-4H Dadk Section	10 27-Apr-23	09-May-23	12-Jul-23	22-Jul-23	61	1.00						-	_					
3.4-3252a	S4- Stitch joint - Span 4G-4H Web and Soffit at 4G	10 19-Jun-23	30-Jun-23	24-Jul-23	03-Aug-23	28													
Sch_3.5 Bridge S7	7 Works	200 25-Nov-22 A	04-Jul-23	02-May-23	05-Aug-23	28	12.00												
S7 - Pile Caps, Pie	er / Abutment	159 25-Nov-22 A	13-May-23	02-May-23	05-Aug-23	69	6.00												
Pier 7B		72 25-Nov-22 A	20-Feb-23 A	02-May-23	02-May-23		6.00												
3.5-3416	S7 - Excavation down to formation level C-7B-S7	4 25-Nov-22 A	28-Nov-22 A	02-May-23	02-May-23		1.00												
3.5-3418	S7 - Prepare pile head (2 nrs) C-7B-S7	9 29-Nov-22 A	13-Dec-22 A	02-May-23	02-May-23		1.00												
3.5-3420	S7 - Construct pile cap C-78-S7	15 14-Dec-22 A	27-Dec-22 A	02-May-23	02-May-23		2.00												
3.5-3422	S7 - Construct Pier P-7B-S7 (2 Lifts)	20 28-Dec-22 A	20-Feb-23 A	02-May-23	02-May-23		2.00												
Pier 7C		20 20-Apr-23	13-May-23	14-Jul-23	05-Aug-23	69	0.00												
3.5-3426a	S7 - Construct Pier P-7C-S7 (2nd Lift)	20 20-Apr-23	13-May-23	14-Jul-23	05-Aug-23	69													
S7 - Deck		34 23-May-23	04-Jul-23	27-Jun-23	05-Aug-23	28	6.00	•											
S7 - Span 7B-7C		34 23-May-23	04-Jul-23	27-Jun-23	05-Aug-23	28	6.00												
3.5-3444	S7 - Span 78-7C Erect: Steel Portal (over Kai Cheung Road Slip Road) Night	14 23-May-23	08-Jun-23	27-Jun-23	13-Jul-23	28	2.00										_		
	works (4) S7 - Span 78-7C Fabrication Steel Portal (over Kai Cheung Road Slip Road)	12 23-May-23	06-Jun-23	07-Jul-23	20-Jul-23	36											_		
	Day vorks (4) S7 - Span 78-7C Install Bearings	6 09-Jun-23	15-Jun-23	14-Jul-23	20-Jul-23	28	2.00												
		0 05 50 125	23 201 23	1130123	20 34 23	2.5	2.00												1
Current Milestone Actual Work Critical Remaining Work	ng Work Central H	Kowloon Rout Thi			st (Monti ing Prog			v38- CSD)	Baseline Layout: H	D: KTE-WP38_M46 : CTE - 3 Months Roll SK filters: 3 Months		- Submission.		Date 25-Aug-22 25-Sep-22 25-Oct-22 25-Nov-22 15-Deo-22 20-Jan-23	Submit CSD F Submit CSD F Submit CSD F Submit CSD F	Programme Rev Programme Rev Programme Rev Programme Rev	32with M40 Mon 33with M41 Mon 34with M42 Mon 35with M43 Mon 35with M44 Mon 37with M45 Mon	TYY TYY TYY TYY	

ity ID	Activity Name	Orig	Dur Start	Finish	Lale Start	Late Finish	Total Float	TRA (Da	ay)	February 46		March 47		-	Ag 4	pril 18				May 49				June 50	
3.5-3448	S7 - Span 7B-7C Falsework and formworks		14 16-Jun-23	04-Jul-23	21-Jul-23	05-Aug-23	28	2.0	2	29 05 12 19	26 05	12	19 26	02	09	16	23	30	07	14	21	28	04	11 18	8 2
			27 09-Feb-23 A	05-Jul-23	01-Apr-23	27-Oct-23	95	20.0																	
Sch_3.6 Brid																									
S8 - Piling W			71 09-Feb-23 A		01-Apr-23	10-Jun-23	37	9.0																	
Piling Works	s - Pier P-8B		71 09-Feb-23 A	26-Apr-23	01-Apr-23	10-Jun-23	37	9.0	00																
3.6-3599	S8 - Mobilisation for Bored pile		6 09-Feb-23 A	13-Feb-23 A	01-Apr-23	01-Apr-23		2.0	00	-															
3.6-3600	S8 - Bored Piles for 8B-S8 (1 nr)		41 14-Feb-23 A	24-Mar-23	01-Apr-23	04-May-23	30	7.0	00			1 1	-												
3.6-3602	S8 - 88-58 Proof drilling & Piles testing		24 25-Mar-23	26-Apr-23	13-May-23	10-Jun-23	37	0.0	00				-	_			-								
3.6-3601	S8 - Demoblisation for bored pile		4 25-Mar-23	29-Mar-23	05-May-23	09-May-23	30						-												
S8 - Pile Cap	os, Pier / Abutment		54 29-Apr-23	05-Jul-23	12-Jun-23	27-Oct-23	95	11.0	00																
Pier 8B			54 29-Apr-23	05-Jul-23	12-Jun-23	15-Aug-23	35	8.0	00																
3.6-3616	S8 - Install sheetpile for pile cap C-8B		5 29-Apr-23	05-May-23	12-Jun-23	16-Jun-23	35	1.0	00																
3.6-3618	S8 - Excavation down to formation level C-8B-58		11 06-May-23	18-May-23	17-Jun-23	30-Jun-23	35	2.0	00									-		_					
3.6-3620	S8 - Prepare pile head (1nr) C-8B-58		5 19-May-23	24-May-23	03-Jul-23	07-3ul-23	35	1.0	_												_				
3.6-3622	S8 - Construct pile cap C-8B-S8		13 25-May-23	09-Jun-23	08-Jul-23	22-Jul-23	35	2.0																	
3.6-3624	S8 - Construct Pier P-8B-S8 (2 Lifts)		20 10-Jun-23	05-Jul-23	24-Jul-23	15-Aug-23	35	2.0																	
Pier 8C			29 15-May-23	17-Jun-23	21-Sep-23	27-Oct-23	108	3.0	00																
3.6-3634	S8 - Construct Pier P-8C-S8 (3 Lifts)		29 15-May-23	17-Jun-23	21-Sep-23	27-Oct-23	108	3.0	00											_				_	
Sch_3.7 Brid	ge S9 Works	1	07 23-Nov-22 A	28-Mar-23	02-Mar-23	23-Jun-23	68	16.0	00																
S9 - Pile Cap	os, Pier / Abutment		12 25-Feb-23	10-Mar-23	02-Mar-23	15-Mar-23	4	0.0	00																
Abutment 4	H/9E		12 25-Feb-23	10-Mar-23	02-Mar-23	15-Mar-23	4	0.0	00																
3.7-3883	S9 Install Permeate Membrane and Baddill		12 25-Feb-23	10-Mar-23	02-Mar-23	15-Mar-23	4																		
S9 - Deck		1	07 23-Nov-22 A	11-Mar-23	15-Mar-23	10-Jun-23	72	0.0	00																
S9 - Span 98	B-9C (Stage 3)		19 12-Dec-22 A	05-Jan-23 A	15-Mar-23	10-Jun-23		0.0	00																
3,7-3908	59 - Span 9B-9C Post-tensioning (Stage 3)		7 12-Dec-22 A	20-Dec-22 A	15-Mar-23	15-Mar-23		0.0																	
3.7-3909	S9 - Span 9B-9C Remove Falsework and Formwork		12 20-Dec-22 A	05-Jan-23 A	10-Jun-23	10-Jun-23			-																
			07 23-Nov-22 A		15-Mar-23	15-Mar-23	4	0.0																	
	C-9D-9E (Stage 4)						4	0.0	00																
3.7-3911	S9 - Stitch Joint at 9C - Web and soffit (DRM)		11 23-Nov-22 A	02-Feb-23 A	15-Mar-23	15-Mar-23																			
3.7-3910a	S9 - Span 9D-9E Falsework and formworks (B)		10 25-Nov-22 A		15-Mar-23	15-Mar-23																			
3.7-3914a	S9 - Span 9D-9E Web and Soffit (B) (DRM)		10 15-Dec-22 A	10-Jan-23 A	15-Mar-23	15-Mar-23																			
3.7-3918	S9 - Span 9C-9E Post-tensioning (Stage 4)		7 07-Jan-23 A	14-Feb-23 A	15-Mar-23	15-Mar-23		0.0	00																
3.7-3916a	S9 - Span 9D-9E Deck Section (B) (DRM)		10 11-Jan-23 A	19-Jan-23 A	15-Mar-23	15-Mar-23																			
3.7-3911a	S9 - Stitch Joint at 9C - Deck Section (DRM)		11 03-Feb-23 A	09-Feb-23 A	15-Mar-23	15-Mar-23																			
3.7-3919	S9 - Span 9C-9E Remove Falsework and Formwork		12 21-Feb-23 A	11-Mar-23	15-Mar-23	15-Mar-23	4					•													
S9 - Miscella	ineous Works		83 23-Nov-22 A	28-Mar-23	25-May-23	23-Jun-23	68	16.0	00																
3.7-3920	S9 - Install Profile barrier / Parapet Wall / Planter		58 23-Nov-22 A	27-Feb-23	02-Jun-23	03-Jun-23	77	5.0	00	_															
3.7-3922	S9 - Bridge Drainage works		28 20-Jan-23 A	28-Feb-23	10-Jun-23	13-Jun-23	84	4.0	00			÷													
3.7-3924	S9 - Road Lighting and Road Furniture		28 20-Jan-23 A	06-Mar-23	10-Jun-23	13-Jun-23	79	4.0	00		44														
3.7-3926	S9 - Movement Joint		12 04-Feb-23 A	28-Feb-23	05-Jun-23	05-Jun-23	77	2.0																	
			C.1.0 25 M						-																
Current M	Nestone										Project II): KTE-WP3	8 M46						Date	Pater		Revision	2with M40 M	Chec	oked Ap
Actual W		Central Kowl	oon Rout	te - Kai	Tak Eas	st (Mont	h 46	Upd	ate) (Rev38- CSD)	Baseline		-					254	Aug-22 Sep-22	Submit	CSD Progra	amme Rev 3	3with M41 M	Ion TYY	DC
Critical Re	emaining Work ng Work			ree Mon								CTE - 3 Mon SK filters: 3				ission		254	Oct-22 Nov-22	Submit	CSD Progra	mme Rev 3	4with M42 M 5with M43 M	Ion TYY	DC DC
_													Monuta AU		e · oudini				Dec-22 Jan-23				Gwith M44 M 7with M45 M		DC
											Page 7 c	f 19						254	Feb-23	Submit	CSD Progra	amme Rev 3	8 with M46 M	on TYY	DC

r ID	Activity Name	Orig Dur Sta	Finish	Lale Start	Late Finish	Total Float	TRA (Day)	February 46		_	March 47				April 48	_	-		May 49	_		_	June 50	_	-
3.7-3923	S9 - End wall construction (Abutment)	15 21-Feb	23 A 11-Mar-23	05-Jun-23	05-Jun-23	Float		2	29 05 12 19	26	05	12 19	26	02	09	16	23	30	07	14	21	28	04	11	18	2
								_																		
3.7-3930	S9 - Final completion works	24 01-Ma				68																				
3.7-3928	S9 - Road pavement; Road marking	7 11-Ma		06-Jun-23	13-Jun-23	68		1.00			-	_														
3.7-3932	S9 - Completion of Bridge S9	0	28-Mar-23		23-Jun-23	68							•													
Sch_3.8 Bridg	e S1/S9 Works	141 30-Nov	22 A 30-May-23	15-Feb-23	14-May-26	879	37	7.00																		
S1/S9 - Deck	t i i i i i i i i i i i i i i i i i i i	106 30-Nov	22 A 17-Apr-23	15-Feb-23	28-Apr-26	900	18	3.00																		
51/S9 - Span	1E-1F/1E-7A (Stage 1)	30 30-Nov	22 A 09-Jan-23	15-Feb-23	15-Feb-23		8	3.00																		
3.8-4084	S1/S9 - Span 1E-1F/7A (R) Web and Soffit	10 30-Nov	22 A 13-Dec-22	A 15-Feb-23	15-Feb-23		1	2.00																		
3.8-4086	S1/S9 - Span 1E-1F/7A (L) Web and Soffit	10 30-Nov	22 A 13-Dec-22	A 15-Feb-23	15-Feb-23			2.00																		
3.8-4088	S1/S9 - Span 1E-1F/7A (R) Deck Section	10 14-Dec	22 A 29-Dec-22	A 15-Feb-23	15-Feb-23		- 1	2.00																		
3.8-4090	S1/S9 - Span 1E-1F/7A (L) Deck Section	10 14-Dec	22 A 29-Dec-22	A 15-Feb-23	15-Feb-23		3	2.00																		
3.8-4091	S1/S9 - Span 1D-1E-1F Post-tensioning and Grouting (Stage 1)	7 30-Dec	22 A 09-Jan-23	A 15-Feb-23	15-Feb-23																					
S1/S9 - Span	1F-1G (R) (Stage 2)	31 14-Dec	22 A 28-Feb-23	15-Feb-23	18-Feb-23	-8	3	2.00																		
3.8-4094	S1/S9 - Span 1F-1G(R) Web and Soffit	9 14-Dec	22 A 31-Jan-23	A 15-Feb-23	15-Feb-23		3	1.00																		
3.8-4096	S1/S9 - Span 1F-1G(R) Deck Section	9 01-Feb			15-Feb-23		1	1.00																		
3.8-4097	S1/S9 - Span 1F-1G(R) Post-tensioning and Grouting (Stage 2)	9 15-Feb	23 A 28-Feb-23	15-Feb-23	18-Feb-23	-10		_		_																
	7A-7B (L) (Stage 3)	64 21-Feb		02-May-23	28-Apr-26	900		3.00																		
3.8-4098	S1/S9 - Span 7A-7B(L) Falsework and formworks	11 21-Feb				51		2.00																		
3.8-4100	S1/S9 - Span 7A-7B(L) Install Bearings	6 23-Feb				51		2.00																		
3.8-4102		12 01-Ma			18-May-23			2.00																		
	S1/S9 - Span 7A-7B(L) Web and Soffit					51																				
3.8-4104	S1/S9 - Span 7A-7B(L) Deck Section	12 15-Ma				51		2.00				1														
3.8-4106	S1/S9 - Span 7A-7B(L) Post-tensioning and Grouting (Stage 3)	7 29-Ma			10-Jun-23	51		0.00																		
3.8-4108	S1/S9 - Bridge S1/S9, Remove Falsework, formwork and Trusses	6 11-Ap	-23 17-Apr-23	22-Apr-26	28-Apr-26	900	0	0.00							-	1										
S1/S9 - Miso	ellaneous Works	75 30-Jan	23 A 30-May-23	30-Mar-23	14-May-26	879	19	9.00																		
3.8-4112	S1/S9 (R) - Install Profile barrier / Parapet Wall	30 30-Jan	13 A 18-Mar-23	30-Mar-23	25-Apr-23	28	3	3.00			-															
3.8-4110	S1/S9 - Bridge Drainage works (R)	28 25-Fe	-23 29-Mar-23	09-May-23	10-Jun-23	57	4	1.00			-		-													
3.8-4116	S1/S9 - Movement Joint	12 25-Fe	-23 10-Mar-23	20-May-23	03-Jun-23	67		2.00	•																	
3.8-4113	S1/S9 - End wall construction (Abutment)	18 28-Fe	-23 21-Mar-23	02-Jun-23	23-Jun-23	74					-															
3.8-4114	S1/S9 - Road Lighting and Road Furniture	28 09-Ma	23 14-Apr-23	16-Sep-23	20-Oct-23	156		1.00			÷		-	-	-	1										
3.8-4122	BEM - S1/S9 - Erect Sign Gantry G64	4 20-Ma	23 23-Mar-23	23-Nov-23	27-Nov-23	202	(0.00																		
3.8-4118	BEM - S1/S9 (L) - Install Profile barrier / Parapet Wall / Planter / TCSS duct (L)	38 20-Ma	-23 08-May-23	26-Apr-23	10-Jun-23	28	2	3.00					_	_	_	_	_	_	-							
3.8-4120	S1/S9 - (R) Road pavement; Road marking	6 20-Ma	23 25-Mar-23	05-Jun-23	10-Jun-23	60	;	1.00					_													
3.8-4114A	S1/S9 - Road Lighting and water barrier (temporary)	4 27-Ma	-23 30-Mar-23	07-Jun-23	10-Jun-23	56							-													
3.8-4124	S1/S9 - (R) Final completion works; Ready to Open	10 31-Ma	23 15-Apr-23	12-Jun-23	23-Jun-23	56	(0.00								3										
3.8-4126	S1/S9 - (R) Open to Public	0	15-Apr-23		23-Jun-23	56		_								÷.										
3.8-4110a	S1/S9 - Bridge Drainage works (L)	14 18-Ap			14-May-26	900		_																		
3.8-4127	S1/S9 - Remove Steel Portal (over KFR) Night works (2 & 3)	18 09-Ma			04-Jul-23	28		2.00											_							
		67 11-Ma		29-Jul-23	14-May-26	875		7.00																		
Sal-Sis phag	e CKRW Works	0/ 114%	05-00-23	29-30-25	1777/09/20	0/5	1.										-									_
Current Mil	letone									P"	niect ID: K	(TE-WP38	M46					-	Date			Revision		Chi Ion TVY	ecked /	
Actual Wor	Central K	owloon R	oute - Ka	Tak Ea	st (Mon	th 46	Upo	date	(Rev38- CSD)	Ba	seline:							25	-Aug-22 -Sep-22	Submit	CSD Progra	amme Rev 3	12with M40 N 13with M41 N	fon TYY	D	DC
-Critical Ren Remaining	naining Work		Three Mo						•			- 3 Months filters: 3 Me				nission		25	-Oct-22 -Nov-22	Submit	CSD Progra	mme Rev 3	44with M42 N ISwith M43 N	fon TYY	DX DX	DC
										1 110	ei. IMañ		and its P(OII	ing_1, NI	L - OUDI	asiuni.			-Deo-22 -Jan-23	Submit	CSD Progra	amme Rev 3	iðwith M44 N i7with M45 N	fon TYY	DX DX	
										Pa	ge 8 of 19	9							Feb-23				Bwith M46 N		-	0

ID	Activity Name	Orig Dur	Stat	Finish	Lale Start	Late Finish	Total Float	TRA (Day	46 2 29 05 12 19	47 48 26 05 12 19 26 02 09 16 23	49 50 30 07 14 21 28 04 11
CKRW - Pile Cap	ps, Pier / Abutment	27	11-Mar-23	15-Apr-23	29-Jul-23	13-Oct-23	149	4.0			
Abutment A-K1	L-CKRW	27	11-Mar-23	15-Apr-23	29-Jul-23	13-Oct-23	149	4.0			
3.9-4236	CKRW - Construct Abutment: A-K1-CKRW	18	11-Mar-23	31-Mar-23	29-Jul-23	18-Aug-23	112	4.0			
3.9-4238	CKRW - A-K1-CKRW Install Permeate Membrane and Backfill	9	01-Apr-23	15-Apr-23	04-Oct-23	13-Oct-23	149	0.0			
CKRW - Deck		52	29-Mar-23	03-Jun-23	16-Aug-23	14-May-26	875	13.0			
CKRW- Span K	1-CKRW - K5-CKRW	48	29-Mar-23	30-May-23	16-Aug-23	05-May-26	871	7.0			
3.9-4278	CKRW - Span K1-KS Falsework and formwork	20	29-Mar-23	25-Apr-23	16-Aug-23	07-Sep-23	112	3.0			
3.9-4282	CKRW - Span K1-KS Web and Soffit	16	26-Apr-23	15-May-23	08-Sep-23	26-Sep-23	112	1.0			
3.9-4280	CKRW - Span K1-KS Install Bearings	8	26-Apr-23	05-May-23	27-Apr-26	05-May-26	891	2.0			
3.9-4284	CKRW - Span K1-K5 Deck Section	12	16-May-23	30-May-23	09-Nov-23	22-Nov-23	146	1.0			
CKRW- Span K	5-CKRW - K4-CKRW	40	17-Apr-23	03-Jun-23	04-Sep-23	14-May-26	875	6.0			
3.9-4298	CKRW - Span K5-K4 Falsework and formworks	20	17-Apr-23	10-May-23	04-Sep-23	26-Sep-23	116	3.0			
3.9-4300	CKRW - Span K5-K4 Install Bearings	8	11-May-23	19-May-23	06-May-26	14-May-26	887	2.0			
3.9-4302	CKRW - Span K5-K4 Web and Soffit	16	16-May-23	03-Jun-23	27-Sep-23	17-Oct-23	112	1.0			
Sch_4.2 Slip Roa	ad Underpass S3	206	25-Nov-22 A	20-Jul-23	08-Feb-23	04-Jul-23	-14	34.0			
S3 - Not related	d to TTA (Ramp W4-W1)	87	11-Mar-23	28-Jun-23	16-Mar-23	04-Jul-23	4	21.0			
ELS for Underpa	ass (Ramp)	46	11-Mar-23	09-May-23	16-Mar-23	13-May-23	4	11.0			
4-4504	S3 - Install cofferdam	18	11-Mar-23	31-Mar-23	16-Mar-23	06-Apr-23	4	6.0			
4-4508	S3 - Excavation down to 0.5m below 1st waling & strut; install waling & strut	11	01-Apr-23	18-Apr-23	11-Apr-23	22-Apr-23	4	2.0			
4-4510	S3 - Excavation down to 0.5m below 2nd wailing & strut; install wailing & strut	13	19-Apr-23	04-May-23	24-Apr-23	09-May-23	4	2.0			-
4-4512	S3 - Excavation down to final formation level	4	05-May-23	09-May-23	10-May-23	13-May-23	4	1.0			
RC Structures		41	10-May-23	28-Jun-23	15-May-23	04-Jul-23	4	10.0			
Ramp W4 to W	1		10-May-23	28-Jun-23	15-May-23	04-Jul-23		10.0			
Bay W4		28	10-May-23	12-Jun-23	15-May-23	16-Jun-23	4	4.0			
4-4546	S3-W4 - Construct Base slab	13	10-May-23	24-May-23	15-May-23	30-May-23	4	2.0			
4-4550	S3-W4 - Construct Side Wall	15	25-May-23	12-Jun-23	31-May-23	16-Jun-23	4	2.0			
Bay W3		28	25-May-23	28-Jun-23	31-May-23	04-Jul-23	4	4.0			
4-4514	S3-W3 - Construct Base slab	15	25-May-23	12-Jun-23	31-May-23	16-Jun-23	4	2.0			
4-4516	S3-W3 - Construct Side Wall	13	13-Jun-23	28-Jun-23	17-Jun-23	04-Jul-23	4	2.0			
Bay W2		12	13-Jun-23	27-Jun-23	19-Jun-23	04-Jul-23	5	2.0			
4-4518	S3-W2 - Construct Base slab	12	13-Jun-23	27-Jun-23	19-Jun-23	04-Jul-23	5	2.0			
S3 - TTA Stage	2 (Box Section Bay 2 & 3)	136	25-Nov-22 A	25-Apr-23	08-Feb-23	03-Apr-23	-15	13.0			
ELS for Underpa	ass	16	25-Nov-22 A	08-Dec-22 A	08-Feb-23	08-Feb-23		0.0			
4-4605	S3 - Excavation down to 0.5m below 4th waling & strut; install waling & strut	16	25-Nov-22 A	08-Dec-22 A	08-Feb-23	08-Feb-23					
RC Strucutres		86	25-Nov-22 A	30-Mar-23	08-Feb-23	13-Mar-23	-15	8.0			
Box Sections			25-Nov-22 A	30-Mar-23	08-Feb-23	13-Mar-23		8.0			
Bay B2 (L=10)m) FS Plant Room	34	25-Nov-22 A	22-Dec-22 A	11-Feb-23	23-Feb-23		2.0			
4-4610	S3-B2 - Consturct External Wall (with PS plantroom)	24	25-Nov-22 A	10-Dec-22 A	11-Feb-23	11-Feb-23		1.0			
										_ · · · · · · · · · ·	· · · · · · · · · ·
Current Milesto			-							Project ID: KTE-WP38_M46	Date Revision Chi 25-Aug-22 Submit CSD Programme Rev 32with M40 Mon TYY
Critical Remain	ning Work	owloo							te) (Rev38- CSD)	Baseline: Layout: KTE - 3 Months Rolling Programme	25-Sep-22 Submit CSD Programme Rev 33with Mi1 Mon TYY 25-Oct-22 Submit CSD Programme Rev 34with M42 Mon TYY
Remaining We	tork		ihi	ee wor	tri Koll	ing Prog	gram	me		Filter: TASK filters: 3 Months Rolling_1, KTE - Submission.	25-Nov-22 Submit CSD Programme Rev 35with M43 Mon TYY 15-Dec-22 Submit CSD Programme Rev 36with M44 Mon TYY
										Page 9 of 19	20-Jan-23 Submit CSD Programme Rev 37with M45 Mon TYY

)	Activity Name	Orig Du	Stat	Finish	Lale Start	Late Finish	Total Float	TRA (Day	46			47			48				49				50	_
4-4612	S3-B2 - Consturct Top Slab (with PS plantroom)	24	12-Dec-22 A	22-Dec-22 A	23-Feb-23	23-Feb-23		1.00	29 05 12 19	26	05	12	19 26	02	09	16	23	30 07	14	21	28	04	11	18
Bay B3 (L=1	(0m)	2	25-Feb-23 A	21-Mar-23	08-Feb-23	03-Mar-23	-15	3.00																
4-4614	S3-B3 - Consturct Base slab		25-Feb-23 A	28-Feb-23	08-Feb-23	10-Feb-23	-15	1.00		<u>:</u>														
4-4616	S3-B3 - Consturct External Wall		01-Mar-23	10-Mar-23	11-Feb-23	21-Feb-23	-15	1.00																
4-4618	S3-B3 - Consturct Top Slab		11-Mar-23	21-Mar-23	22-Feb-23	03-Mar-23		1.00																
							-15																	
Bay B4A (L=			i 01-Mar-23	30-Mar-23	14-Feb-23	13-Mar-23	-15	3.00																
10-8610	S3-B4A - Consturt Base slab		01-Mar-23	09-Mar-23	14-Feb-23	22-Feb-23	-13	1.00																
10-8612	S3-B4A - Consturct External Wall		11-Mar-23	20-Mar-23	23-Feb-23	03-Mar-23	-14	1.00			•													
10-8614	S3-B4A - Constunt Top Slab	8	22-Mar-23	30-Mar-23	04-Mar-23	13-Mar-23	-15	1.00																
Miscellaneous	s Works	18	31-Mar-23	25-Apr-23	14-Mar-23	03-Apr-23	-15	5.00																
4-4620	S3 - Box Section Backfilling upto GL	18	31-Mar-23	25-Apr-23	14-Mar-23	03-Apr-23	-15	5.00						-			1							
S3 - TTA Stage	e 4 (Box Section Bay 4 & 5 and Ramp E7-E5)	33	12-Jun-23	20-Jul-23	17-Mar-23	27-Apr-23	-68	0.00																
TTA Advance	Works	33	12-Jun-23	20-Jul-23	17-Mar-23	27-Apr-23	-68	0.00																
4-4622	TTA - Implement TTA Stage 4 (KFR TTA stage 4.1A)		12-Jun-23		17-Mar-23		-68																•	
4-4624	TTA - TTA Stage 4 Trial Run (KFR TTA stage 4.1A)		12-Jun-23	13-Jun-23	17-Mar-23	18-Mar-23	-68	0.00															•	
4-4626	TTA - Trial Pits / Site investigation		i 14-Jun-23	20-Jun-23	20-Mar-23	25-Mar-23	-68	0.00															_	-
4-4628	TTA - Utilities diversion / protection	24	21-Jun-23	20-Jul-23	27-Mar-23	27-Apr-23	-68	0.00																
Sch 5A Retain	ing Walls and At-grade Road Works		10-Aug-22 A	16-Sep-23	24-Nov-22	14-May-26	787	258.00																
Retaining Wal				24-Jul-23	23-Feb-23	14-May-26	834	176.00																
RW-S1-a			i 21-Dec-22 A	08-Jul-23	14-Oct-23	18-Dec-23	136	13.00																
5A-5002	RW-S1-a - Plate Load Test and Report			24-Dec-22 A	14-Oct-23	14-Oct-23	100	2.00																
5A-5004	RW-S1-a - Construct Base Slab (Bay 1)			12-Jan-23 A	14-Od-23	14-Oct-23		1.00																
5A-5008	RW-S1-a - Construct Wall (Bay 1)			09-Feb-23 A	30-Oct-23	30-Oct-23		2.00																
5A-5006	RW-S1-a - Construct Base Slab (Bay 2)		03-May-23	16-May-23	14-Oct-23	28-Oct-23	136	2.00											1					
5A-5010	RW-S1-a - Construct Wall (Bay 2)	15	i 17-May-23	03-Jun-23	30-Oct-23	15-Nov-23	136	2.00											-	-				
5A-5012	RW-S1-a - Fil upto formation level	28	05-Jun-23	08-Jul-23	16-Nov-23	18-Dec-23	136	4.00															-	-
RW-S1		103	15-Dec-22 A	27-Apr-23	05-May-23	14-May-26	905	23.00																
Retaining Wa	all .		15-Dec-22 A	27-Apr-23	05-May-23	14-May-26																		
5A-5050	RW-S1 - Construct Wall (Bay 4)		15-Dec-22 A	04-Jan-23 A	05-May-23	05-May-23		1.00																
5A-5056A	RW-S1 - Construct Wall (Bay 1)	9	15-Dec-22 A	04-Jan-23 A	05-May-23	05-May-23																		
5A-5046a	RW-S1 - Construct Wall (Bay 5)	9	15-Dec-22 A	23-Dec-22 A	14-May-26	14-May-26																		
5A-5034	RW-S1 - Construct Wall (Bay 12/11/10)	14	13-Jan-23 A	06-Mar-23	06-May-26	14-May-26	946	2.00		a in a s	-													
5A-5058b	RW-S1 - Fill upto formation level for 88 pilling works		30-Jan-23 A	09-Feb-23 A	14-May-26	14-May-26																		
5A-5058	RW-S1 - Fill upto formation level (SPT) for KCR TTA stag	2 28	25-Feb-23	29-Mar-23	05-May-23	07-Jun-23	54	4.00																
5A-5040	RW-51 - Construct Base Slab (Bay 6)		25-Feb-23	14-Mar-23	02-Sep-23	19-Sep-23	154	2.00				_												
5A-5059	RW-S1 - Roadworks for KCR-TTA Stage 2 (temp)		28-Feb-23	08-Mar-23	02-Jun-23	10-Jun-23	75	6.00																
5A-5061	RW-S1 - Temporary road pavement for KCR TTA Stage 2		28-Feb-23	20-Mar-23	02-Jun-23	23-Jun-23	75	2.00																
54-5036	RW-S1 - Construct Base Slab (Bay 7)		15-Mar-23	22-Mar-23	20-Sep-23	27-Sep-23	154	1.00					_											
			13448-23	22710-23	20-349-23	27-360-23	1.54	1.00										Det			Prevision			Checked
Current Mile Actuel Work Criticel Reme Remaining I	k eining Work	Central Kowlo				st (Mont ing Prog			e) (Rev38- CSD)			E - 3 Mont	8_M46 hs Rolling P Months Roll		- Submiss	sion.		25-Aug-2 25-Sep-2 25-Oct-2 25-Nov-2 15-Deo-2 20-Jan-2	2 Sub 2 Sub 2 Sub 2 Sub 2 Sub 2 Sub	nit CSD Progr nit CSD Progr nit CSD Progr nit CSD Progr nit CSD Progr nit CSD Progr	amme Rev amme Rev amme Rev amme Rev	33with M41 34with M42 35with M43 38with M44	Mon TY Mon TY Mon TY Mon TY Mon TY	1 11 11 11 11 11 11 11 11 11 11 11 11 11

	Activity Name	Orig Du	Stat	Finish	Lale Start	Late Finish	Float		40	47	48	49	9	50
5A-5046	RW-S1 - Construct Wall (Bay 6)	ç	15-Mar-23	24-Mar-23	23-Sep-23	05-Oct-23	157	1.00	2 29 05 12 19	26 05 12 19 26 00	09 16 2	3 30 07 1	14 21 28	04 11
5A-5032	RW-S1 - Construct Base Slab (Bay 9/8)	14	23-Mar-23	12-Apr-23	28-Sep-23	16-Oct-23	154	2.00			-			
5A-5042	RW-S1 - Construct Wall (Bay 7)	S	25-Mar-23	04-Apr-23	06-Od-23	16-Oct-23	157	1.00						
5A-5038	RW-S1 - Construct Wall (Bay 9/8)	ç	13-Apr-23	22-Apr-23	17-0d-23	27-Oct-23	154	1.00						
5A-5058c	RW-S1 - Fill upto formation level (SPT) remianing	4	24-Apr-23	27-Apr-23	28-Oct-23	01-Nov-23	154							
RW-S1/S2		45	26-Apr-23	24-Jun-23	24-Jun-23	02-Sep-23	59	10.00						
5A-5062	RW-S1/S2 - Excavation down to formation level +-	1.8/+7.25 7	26-Apr-23	04-May-23	24-Jun-23	03-Jul-23	48	1.00			1			
5A-5064	RW-S1/S2 - Plate Load Test and Report	14	05-May-23	20-May-23	04-Jul-23	19-Jul-23	48	2.00					-	
5A-5066	RW-S1/S2 - Construct Base Slab (Bay 7)		22-May-23	30-May-23	20-Jul-23	27-Jul-23	48	1.00						
5A-5068	RW-S1/S2 - Construct Base Slab (Bay 6)	7	31-May-23	07-Jun-23	28-Jul-23	04-Aug-23	48	1.00					_	-
5A-5070	RW-S1/S2 - Construct Wall (Bay 7)	5	31-May-23	05-Jun-23	17-Aug-23	22-Aug-23	65	1.00					-	÷ ! !
5A-5072	RW-S1/S2 - Construct Base Slab (Bay 5)	7	08-Jun-23	15-Jun-23	05-Aug-23	12-Aug-23	48	1.00						_
5A-5074	RW-S1/S2 - Construct Wall (Bay 6)	5	08-Jun-23	13-Jun-23	23-Aug-23	28-Aug-23	63	1.00						-
5A-5076	RW-S1/S2 - Construct Base Slab (Bay 4)	7	16-Jun-23	24-Jun-23	14-Aug-23	21-Aug-23	48	1.00						
5A-5078	RW-S1/S2 - Construct Wall (Bay 5)	5	16-Jun-23	21-Jun-23	29-Aug-23	02-Sep-23	61	1.00						-
RW-S2		77	25-Feb-23	01-Jun-23	01-Aug-23	01-Nov-23	126	15.00						
5A-5114	RW-S2 - Construct Base Slab (Bay 2/1)	19	25-Feb-23	18-Mar-23	01-Aug-23	22-Aug-23	126	3.00						
5A-5118	RW-S2 - Construct Wall (Bay 2/1)	15	25-Feb-23	18-Mar-23	05-Sep-23	26-Sep-23	156	3.00						
5A-5110	RW-S2 - Construct Base Slab (Bay 3)	3	20-Mar-23	27-Mar-23	23-Aug-23	30-Aug-23	126	1.00						
5A-5106	RW-S2 - Construct Base Slab (Bay 5/4)	14	28-Mar-23	17-Apr-23	31-Aug-23	15-Sep-23	126	2.00						
5A-5116	RW-S2 - Construct Wall (Bay 3)	ç	28-Mar-23	11-Apr-23	16-Sep-23	26-Sep-23	140	1.00			-			
5A-5112	RW-S2 - Construct Wall (Bay 5/4)	ç	18-Apr-23	27-Apr-23	16-Sep-23	26-Sep-23	126	1.00						
5A-5120	RW-S2 - Fill up to formation level (SPT)	28	28-Apr-23	01-Jun-23	27-Sep-23	01-Nov-23	126	4.00						
RW-S3		40	10-May-23	27-Jun-23	02-Feb-24	26-Mar-24	221	7.00						
5A-5122	RW-S3 - Excavation down to formation level +2.9/	+3.0 7	10-May-23	17-May-23	02-Feb-24	09-Feb-24	221	1.00				_		
5A-5124	RW-S3 - Plate Load Test and Report	14	18-May-23	03-Jun-23	17-Feb-24	04-Mar-24	221	2.00						
5A-5126	RW-S3 - Construct Base Slab (Bay 1)	7	05-Jun-23	12-Jun-23	05-Mar-24	12-Mar-24	221	1.00						-
5A-5128	RW-S3 - Construct Base Slab (Bay 2)	7	13-Jun-23	20-Jun-23	13-Mar-24	20-Mar-24	221	1.00						-
5A-5130	RW-S3 - Construct Wall (Bay 1)	5	13-Jun-23	17-Jun-23	15-Mar-24	20-Mar-24	223	1.00						
5A-5132	RW-S3 - Construct Wall (Bay 2)	5	21-Jun-23	27-Jun-23	21-Mar-24	26-Mar-24	221	1.00						
RW-S4		35	12-Dec-22 A	03-Mar-23	04-Mar-23	10-Mar-23	6	2.00						
5A-5162	RW-S4 - Construct Base Slab (Bay 1)	14	12-Dec-22 A	21-Dec-22 A	04-Mar-23	04-Mar-23		1.00						
5A-5162A	RW-S4 - Construct Wall (Bay 1) ind. TCSS duct	21	22-Dec-22 A	03-Mar-23	04-Mar-23	10-Mar-23	6	1.00						
RW-S7-a		54	22-Apr-23	27-Jun-23	21-Aug-23	25-Oct-23	99	9.00						
5A-5190	RW-S7-a - Plate Load Test and Report	14	22-Apr-23	09-May-23	21-Aug-23	05-Sep-23	99	2.00			-			
5A-5192	RW-S7-a - Construct Base Slab (RW-S7-a1)	14	10-May-23	25-May-23	06-Sep-23	21-Sep-23	99	2.00				-	_	
5A-5196	RW-S7-a - Construct Wall (RW-S7-a1)	ç	27-May-23	06-Jun-23	26-Sep-23	07-Oct-23	102	1.00					-	-
5A-5416	RW-S7-a - Construct Base Slab (RW-S7-a2)	12	27-May-23	09-Jun-23	22-Sep-23	07-Oct-23	99	2.00						-
Current Mile Actual Work Critical Rem Remaining	k naining Work	Central Kowlo		te - Kai ree Mon					te) (Rev38- CSD)	Project ID: KTE-WP38_M46 Baseline: Layout: KTE - 3 Months Rolling Program Filter: TASK filters: 3 Months Rolling_1, F		25-Sep-22 Si 25-Oct-22 Si 25-Nov-22 Si	ubmit CSD Programme R ubmit CSD Programme R ubmit CSD Programme R	on C Rev 32with M40 Mon TY Rev 33with M41 Mon TY Rev 34with M42 Mon TY Rev 35with M43 Mon TY Rev 35with M44 Mon TY

	Activity Name	Orig D	ur Stat	Finish	Lale Start	Late Finish	Total Float	TRA (Day)	February 46		March 47		April 48			May 49		J	une 50
5A-5418	RW-S7-a - Construct Wall (RW-S7-a2)		4 10-Jun-23	27-Jun-23	09-Oct-23	25-Oct-23	99	2.00	29 05 12 19	26 05	12 19	26 02	09 16	23	30 07	14	21 28	04 11	18
RW-57	Kirova - Constitut viai (Kirovaz)		6 26-Nov-22 A	23-Jun-23	04-Aug-23	18-Nov-23	123	5.00											
5A-5194	RW-S7 - Construct Base Slab (Bay 1)		7 26-Nov-22 A	10-Dec-22 A	03-Nov-23	03-Nov-23	125	1.00											
													_						
5A-5188	RW-S7 - Excavation down to formation level +3.5/+4.1		7 01-Apr-23	13-Apr-23	04-Aug-23	11-Aug-23	99	1.00					_						
5A-5210	RW-S7 - Construct Base Slab (Bay 9)		7 27-May-23	03-Jun-23	06-Nov-23	13-Nov-23	134	1.00										_	
5A-5200	RW-S7 - Construct Wall (Bay 1)		9 07-Jun-23	16-Jun-23	03-Nov-23	13-Nov-23	123	1.00											•
5A-5214	RW-S7 - Construct Wall (Bay 9)		5 17-Jun-23	23-Jun-23	14-Nov-23	18-Nov-23	123	1.00											
RW-S7/S8		٤	13 14-Apr-23	24-Jul-23	12-Aug-23	27-Nov-23	105	13.00											
5A-5218	RW-S7/S8 - Excavation down to formation level +3.8/+3.	,	7 14-Apr-23	21-Apr-23	12-Aug-23	19-Aug-23	99	1.00						•					
5A-5220	RW-S7/S8 - Plate Load Test and Report	1	4 22-Apr-23	09-May-23	28-Aug-23	12-Sep-23	105	2.00											
5A-5222	RW-S7/S8 - Construct Base Slab (Bay 1)		7 10-May-23	17-May-23	13-Sep-23	20-Sep-23	105	1.00							6				
5A-5224	RW-S7/S8 - Construct Base Slab (Bay 2)		7 18-May-23	25-May-23	23-Sep-23	03-Oct-23	107	1.00									-		
5A-5226	RW-S7/S8 - Construct Wall (Bay 1)		9 18-May-23	29-May-23	21-Sep-23	03-Oct-23	105	1.00								-	-		
5A-5228	RW-S7/S8 - Construct Base Slab (Bay 3)		7 27-May-23	03-Jun-23	06-Oct-23	13-Oct-23	109	1.00											
5A-5230	RW-S7/S8 - Construct Wall (Bay 2)		9 30-May-23	08-Jun-23	04-Oct-23	13-Oct-23	105	1.00									-	÷	
5A-5232	RW-S7/S8 - Construct Wall (Bay 3)		9 09-Jun-23	19-Jun-23	14-Oct-23	25-Oct-23	105	1.00										_	-
5A-5234	RW-S7/S8 - Fill upto formation level	2	8 20-Jun-23	24-Jul-23	26-Oct-23	27-Nov-23	105	4.00											
RW-S7/S8-a			i1 20-Apr-23	04-Jul-23	12-Sep-23	24-Nov-23	120	12.00											
5A-5236	RW-S7/S8-a - Excavation down to formation level +4.6/+4	.5	5 20-Apr-23	25-Apr-23	12-Sep-23	16-Sep-23	120	1.00						-					
5A-5238	RW-S7/S8-a - Plate Load Test and Report		4 26-Apr-23	12-May-23	18-Sep-23	05-Oct-23	120	2.00								•			
5A-5240	RW-S7/S8-a - Construct Base Slab (Bay 1)		7 13-May-23	20-May-23	06-Oct-23	13-Oct-23	120	1.00											
5A-5242	RW-S7/S8-a - Construct Base Slab (Bay 2)		7 22-May-23	30-May-23	14-Oct-23	21-Oct-23	120	1.00											
5A-5244	RW-S7/S8-a - Construct Wall (Bay 1)		5 22-May-23	27-May-23	21-0d-23	27-Oct-23	126	1.00											
5A-5246	RW-S7/S8-a - Construct Base Slab (Bay 3)		7 31-May-23	07-Jun-23	24-Oct-23	31-Oct-23	120	1.00										_	
5A-5248	RW-57/S8-a - Construct Wall (Bay 2)		5 31-May-23	05-Jun-23	28-Oct-23	02-Nov-23	120	1.00											
5A-5250	RW-S7/S8-a - Construct Wall (Bay 3)		5 08-Jun-23	13-Jun-23	03-Nov-23	02100+23	124	1.00										T_	
5A-5252	RW-S7/S8-a - Construct Base Slab (Bay 4)		7 08-Jun-23	15-Jun-23	01-Nov-23	08-Nov-23	120	1.00											<u> </u>
5A-5254	RW-S7/S8-a - Construct Wall (Bay 4)		5 16-Jun-23	21-Jun-23	09-Nov-23	14-Nov-23	120	1.00											
5A-5256	RW-S7/S8-a - Fill upto formation level		9 23-Jun-23	04-Jul-23	15-Nov-23	24-Nov-23	120	1.00											
RW-S8-b			14-Apr-23	08-May-23	12-Sep-23	06-Oct-23	125	2.00											
5A-5265c	RW-S8-b - Construct Wall (RW-S8-b2) (2 Lifts)		14-Apr-23	08-May-23	12-Sep-23	06-Oct-23	125	2.00											
RW-S8-c		3	0 01-Dec-22 A	08-May-23	12-Sep-23	06-Oct-23	125	3.00											
5A-5267b	RW-S8-c - Construct Wall (RW-S8-c1)(2 Lifts)	2	0 01-Dec-22 A	23-Dec-22 A	12-Sep-23	12-Sep-23		1.00											
5A-5267c	RW-S8-c - Construct Wall (RW-S8-c2) (2 Lifts)	2	20-Feb-23 A	08-May-23	12-Sep-23	06-Oct-23	125	2.00					_		-				
RW-S8		6	i8 30-Nov-22 A	25-May-23	06-Sep-23	18-Oct-23	120	8.00											
5A-5272	RW-S8 - Construct Wall (Bay 2)	1	.9 30-Nov-22 A	07-Dec-22 A	06-Sep-23	06-Sep-23		3.00											
5A-5276	RW-S8 - Construct Base Slab (Bay 6)		7 14-Apr-23	21-Apr-23	11-Oct-23	18-Oct-23	148	1.00					-	1					
5A-5280	RW-S8 - Construct Wall (Bay 6)		5 14-Apr-23	19-Apr-23	06-Sep-23	11-Sep-23	120	1.00					<u> </u>						
Current Mile Actual Work Critical Rema Remaining I	aining Work	Central Kowld				t (Monti ng Prog) (Rev38- CSD)	Baseline: Layout: KTE	KTE-WP38_M46 E - 3 Months Rollin C filters: 3 Months I		- Submission.		25-Aug-2 25-Sep-2 25-Oct-22 25-Nov-2 15-Dec-22 20-Jan-23	2 Submit C 2 Submit C 2 Submit C 2 Submit C 2 Submit C 5 Submit C	SD Programme Ri SD Programme Ri SD Programme Ri	v 32with M40 Mon av 33with M41 Mon av 34with M42 Mon av 35with M43 Mon av 35with M43 Mon av 35with M44 Mon	TYY TYY TYY TYY

| RV/SB - Fill upto formation level
RV/S9 - Construct Wall (Bay 1)
RV/S9 - Construct Wall (Bay 4)
RV/S9 - Fill upto formation level (for KRR TTA stage 4)
RV/CQRa - Extandion down to formation level +7.5 | 96
96
17
14
20
45
45 | 20-Apr-23
05-Dec-22 A
05-Dec-22 A
05-Dec-22 A
25-Feb-23
14-Mar-23
05-Mary-23

 | 06-Apr-23
23-Dec-22 A
13-Mar-23
06-Apr-23 | | 18-0d-23
04-Apr-23
04-Apr-23
04-Apr-23

 | Float 120 -2 -2 | 3.0
4.0 | 29 05 12 19 | 26 05 | 12
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RW-59 - Construct Wall (Bay 1) RW-59 - Construct Wall (Bay 4) RW-59 - Fill upto formation level (for KFR TTA stage 4) RW-50Ra - Excavation down to formation level +7.5	96 96 17 14 20 45 45	05-Dec-22 A 05-Dec-22 A 05-Dec-22 A 25-Feb-23 14-Mar-23			

 | 06-Apr-23
06-Apr-23
23-Dec-22 A
13-Mar-23
06-Apr-23 | 23-Feb-23
23-Feb-23
04-Apr-23
23-Feb-23 | 04-Apr-23
04-Apr-23
04-Apr-23

 | | 4.0 | | | |
 | | |
 | | | | | |
 | | |
| RW-59 - Construct Wall (Bay 4)
RW-59 - Ril upto formation level (for KPR TTA stage 4)
RW-50Re - Excavation down to formation level +7.5 | 96
17
14
20
45
45 | 05-Dec-22 A
05-Dec-22 A
25-Feb-23
14-Mar-23

 | 06-Apr-23
23-Dec-22 A
13-Mar-23
06-Apr-23 | 23-Feb-23
04-Apr-23
23-Feb-23 | 04-Apr-23
04-Apr-23

 | -2 | 4.0 | | | |
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 | | |
| RW-59 - Construct Wall (Bay 4)
RW-59 - Ril upto formation level (for KPR TTA stage 4)
RW-50Re - Excavation down to formation level +7.5 | 17
14
20
45 | 05-Dec-22 A
25-Feb-23
14-Mar-23

 | 23-Dec-22 A
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06-Apr-23 | 04-Apr-23
23-Feb-23 | 04-Apr-23

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| RW-59 - Construct Wall (Bay 4)
RW-59 - Ril upto formation level (for KPR TTA stage 4)
RW-50Re - Excavation down to formation level +7.5 | 45 | 25-Feb-23
14-Mar-23

 | 13-Mar-23
06-Apr-23 | 23-Feb-23 |

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| RW59 - Ri upto formation level (for KPR TTA stage 4)
RW50Ra - Excavation down to formation level +7.5 | 20
45
45 | 14-Mar-23

 | 06-Apr-23 | |

 | | 2.0 | | | |
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| RW-ORe - Excivation down to formation level + 7.5 | 45 |

 | | 11-Mar-23 | 10-Mar-23

 | -2 | 2.0 | | | |
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| | 45 | 05-May-23

 | | 11110-23 | 03-Apr-23

 | -2 | | | | |
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| | 45 |

 | 28-Jun-23 | 26-Sep-23 | 24-Feb-24

 | 194 | 9.0 | | | |
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| | 4 | 05-May-23

 | 09-May-23 | 26-Sep-23 | 29-Sep-23

 | 120 | 1.0 | | | |
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 | | |
| RW-CKR-a - Plate Load Test and Report | 14 | 10-May-23

 | 25-May-23 | 03-Oct-23 | 18-Oct-23

 | 120 | 2.0 | | | |
 | | |
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 | | |
| RW-CKR-a - Construct Base Slab | 7 | 27-May-23

 | 03-Jun-23 | 19-Oct-23 | 27-Oct-23

 | 120 | 1.0 | | | |
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| RW-CKR-a - Consturt: Wall | 7 | 05-Jun-23

 | 12-Jun-23 | 28-Oct-23 | 04-Nov-23

 | 120 | 1.0 | | |
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 | | |
| RW-CKR-a - Fill upto formation level | 13 | 13-Jun-23

 | 28-Jun-23 | 06-Nov-23 | 20-Nov-23

 | 120 | 2.0 | | | |
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 | | - |
| | 14 | 09-Jun-23

 | 26-Jun-23 | 02-Feb-24 | 24-Feb-24

 | 196 | 2.0 | | | |
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 | | |
| RW-CKR-c - Install sheetnile onffertiam | 14 | 09-lun-23

 | 26-Jun-23 | 02-5eb-24 | 24-5eb-24

 | 196 | 2.0 | | | |
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| RUCCRU Constanting from the formation bank of 2015 A | |

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| RW-CKRW - Construct Base Slab (Bay 1) | 7 | 22-Mar-23

 | 29-Mar-23 | 08-Aug-23 | 15-Aug-23

 | 111 | 1.0 | | | |
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| RW-CKRW - Construct Base Slab (Bay 2) | 7 | 30-Mar-23

 | 11-Apr-23 | 16-Aug-23 | 23-Aug-23

 | 111 | 1.0 | | | |
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| RW-CKRW - Construct Wall (Bay 1) | 9 | 30-Mar-23

 | 13-Apr-23 | 16-Aug-23 | 25-Aug-23

 | 111 | 1.0 | | |
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| RW-OKRW - Construct Base Slab (Bay 3) | 7 | 12-Apr-23

 | 19-Apr-23 | 24-Aug-23 | 31-Aug-23

 | 111 | 1.0 | | |
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| RW-CKRW - Construct Wali (Bay 2) | 5 | 14-Apr-23

 | 19-Apr-23 | 26-Aug-23 | 31-Aug-23

 | 111 | 1.0 | | |
 | | | -
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 | | |
| RW-CKRW - Construct Wall (Bay 3) | 5 | 20-Apr-23

 | 25-Apr-23 | 01-Sep-23 | 06-Sep-23

 | 111 | 1.0 | | | |
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| RW-CKRW - Fill upto formation level | 12 | 26-Apr-23

 | 10-May-23 | 07-Sep-23 | 20-Sep-23

 | 111 | 2.0 | | | |
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| orks | 114 | 01-Mar-23

 | 20-Jul-23 | 19-May-23 | 24-May-24

 | 247 | 30.0 | | | |
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| S9 - Reinstate the Slope Feature 11NE-C/F89 | 70 | 01-Mar-23

 | 27-May-23 | 27-Feb-24 | 24-May-24

 | 291 | 10.0 | | | |
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 | 07-Jun-23 | |

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| Sz - Helitable bie Skipe Februre 11HE-Q152 | |

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| sections) | |

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| BIM - S004 - Road and drainage works / Utilities / TCSS duct laying
(Footbridge and subway section) | 36 | 16-Jun-23

 | 29-Jul-23 | 30-Dec-23 | 17-Feb-24

 | | 6.0 | | | |
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 | | | | | |
 | | 1 |
| ai Cheung Road S009 (Uphill Ramp) | 42 | 16-Jun-23

 | 05-Aug-23 | 12-Aug-23 | 29-Sep-23

 | 47 | 6.0 | | | |
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| 5009 - Road and drainage works / Utilities Laying | 42 | 16-Jun-23

 | 05-Aug-23 | 12-Aug-23 | 29-Sep-23

 | 47 | 6.0 | | | |
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| ai Cheung Road S010 (Downhill Ramp) | 42 | 16-May-23

 | 07-Jul-23 | 29-Sep-23 | 20-Nov-23

 | 114 | 6.0 | | | |
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| S010 - Reinstate Kai Cheung Road S010 Downhill Ramp | 42 | 16-May-23

 | 07-Jul-23 | 29-Sep-23 | 20-Nov-23

 | 114 | 6.0 | | |
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| ai Fuk Road Eastbound S019/S020 | 77 | 25-Feb-23

 | 01-Jun-23 | 24-Jul-23 | 24-Oct-23

 | 119 | 8.0 | | | |
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| Central K | (owlo | on Rout

 | te - Kai | Tak Eas | st (Mont

 | h 46 I | Upda | e) (Rev38- CSD) | Baseline: |
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 | | 25-Sep-2 | 2 Subm | t CSD Program | rme Rev 33 | with M41 Mor
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 | ree Mon | th Rolli | ing Proc

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 | viuititis reõllii | ig_1, KTE - | auDMISSIO
 | | | 2 Subm | t CSD Program | nme Rev 36v | with M44 Mor
 | TYY | |
| | RW-ORK+- Constant: Wall RW-ORK Install sheetple on/ferdam RW-ORK Install sheetple on/ferdam RW-ORK Excavition down to formation level RW-ORKW Excavition down to formation level RW-ORKW Construct Base Side (Bay 1) RW-ORKW Construct Base Side (Bay 2) RW-ORKW Construct Base Side (Bay 3) RW-ORKW Faulte for formation level rts Stoch BM-S Side T- Reinsteide the Side Feature 11 NE-C/PS0 Side Soch BM-S Side Side Side Side Side Side Side Sid | RWCORes - Censturt Wall 7 RWCORes - Enstall sheeple coffedam 13 RWCORe - Install sheeple coffedam 14 RWCORe - Enstall sheeple coffedam 14 RWCORW - Excavation down to formation level +5.2/+5.9 7 RWCORW - Facture Laad Tet and Report 14 RWCORW - Construct Base Side (Bay 1) 7 RWCORW - Construct Base Side (Bay 2) 7 RWCORW - Construct Base Side (Bay 3) 7 RWCORW - Construct Base Side (Bay 3) 7 RWCORW - Construct Base Side (Bay 3) 7 RWCORW - Construct Wall (Bay 2) 5 RWCORW - Construct Wall (Bay 2) 5 RWCORW - Construct Wall (Bay 2) 7 RWCORW - Construct Wall (Bay 2) 70 RWCORW - Enstrue SINE-C/F90 70 Store I - Band and dininge worke/ Utilities Laying /TCSS dud [RW motion] 74 Store I - Band and dininge worke/ Utilities /TCSS dud [RW motion] 74 </td <td>WHX GNRs - Censtaurt Wall 97 05-bar-23 NW GORs - Filluptic formation level 111 13-bar-23 NW GORs - Filluptic formation level 09-bar-23 09-bar-23 NW GORs - Filluptic formation level 25-bbr-23 09-bar-23 NW GORS - Filluptic formation level + 5.2/+5.9 7-7 25-bbr-23 NW GORW - Constaurt Bare Sible (Bay 1) 27 25-bbr-23 NW GORW - Constaurt Bare Sible (Bay 1) 27 30-bbr-23 NW GORW - Constaurt Bare Sible (Bay 2) 7 12-bbr-23 NW GORW - Constaurt Bare Sible (Bay 3) 25 14-bbr-23 NW GORW - Constaurt Bare Sible (Bay 3) 25 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 25 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 25 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 26 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 26 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 27 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 27 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 26 26-bbr-23</td> <td>Wind Notes - Constant Wall 1 0 12.3.m.23 12.3.m.23 NW CORe - Constant Wall 0 1.3.m.23 28.3.m.23 28.3.m.23 NW CORe - Constant Wall (See Top Internation Read 0 0 3.3.m.23 28.3.m.23 NW CORe - Constant Wall (See Top Internation Read + 5.2/+5.9 0 0 2.5.m.23 0.4.M.23 NW CORW - Facture for and Report 0.4 0 2.5.M.23 0.4.M.23 NW CORW - Constant Base Sile (Rey 1) 0 2.6.M.23 1.4.M.23 NW CORW - Constant Base Sile (Rey 3) 0 2.4.M.23 1.4.M.23 NW CORW - Constant Base Sile (Rey 3) 0 1.4.M.23 1.4.M.23 NW CORW - Constant Wall (Bey 3) 0 1.4.M.23 1.4.M.23 NW CORW - Constant Wall (Bey 3) 0 1.4.M.23 1.4.M.23 NW CORW - Constant Wall (Bey 3) 0 1.4.M.23 1.4.M.23 NW CORW - Constant Wall (Bey 3) 0 1.4.M.23 1.4.M.23 NW CORW - Constant Wall (Bey 3) 0 1.4.M.23 1.4.M.23 Se - Restatte the Stope Feature 11NE-C/PS9 <</td> <td>NMC ORNE - Constanct Valial 12 <t< td=""><td>NVCXRen-Constant Valial 100 100 12.00000 20.000000 20.00000 20.000000</td><td>NVCKRee-Constant/Wall 0 65-bar.2 1.2.bar.2 2.8.0-22 0.446-v23 1.0 NVCKRee-Constant/Wall 1.0 1.3.0-2 28-bar.2 0.646-v23 2.040-v23 1.0 NVCKRee-Constant/Sectionation loved 1.0 1.3.0-2 2.5-bar.2 0.646-v23 2.646-v23 1.0 NVCKRee-Constant/Sectionation loved 1.4 0.9-0-7.2 2.5-bar.2 0.646-v23 2.446-v23 0.646-v23 2.446-v23 0.646-v23 2.146-v23 0.646-v23 2.146-v23 0.646-v23 2.146-v23 0.646-v23 <</td><th>NVCORe-Conduct Yael 9 95-3m-23 12-3m-23 28-0x-23 04-40x-24 1.0 NVCORe-Conduct Yael 10 13-3m-23 28-3m-23 06-40x-23 24-40x-24 1.00 NVCORe-Conduct Service 10 09-3m-23 26-3m-23 02-46x-24 24-46x-24 1.00 NVCORe-Conduct Service 10 09-3m-23 26-3m-23 02-46x-24 24-46x-24 1.00 NVCORe-Conduct Service 10 09-3m-23 26-3m-23 11-43-23 21-3m-23 1.11 1.00 NVCORW-Conduct Service 10 09-4m-23 24-4m-23 14-3m-23 21-3m-23 1.11 1.00 NVCORW-Conduct Service Side (69/1) 7 26-4m-23 14-4m-23 16-4m-23 24-4m-23 14-4m-23 14-</th><td>Window Constant Wall In 2 09.200 12.200 09.4000 12.00 12</td><td>WORKING-Constant Wall 17 05-bar 20 12-bar 20 06-bar -20 06-bar -20<!--</td--><td>Wird Note Gruntut Vall Image: Signame Signame</td><td>Wirder-Crintert Wall I 0
 0 0</td><td>Norder-circutudi 1 04.042 04.042 04.042 0.0 0 0 NOrder-Fridge formetor hold 1 13.0472 20.0472 0.00402 <</td><td>Norder-Grunts Mul 17 654/2 124/2 246/2 144/2 12 1</td><td>with a character state indexed 1 13.40 13.40 14.40 <td< td=""><td>with a set of the set of</td><td>mining 0</td></td<></td></td></t<><td>minute -7 64x2 14x2 24x2 14x2 14x2</td><td>mixed matched 7 6 Jan 2 1 Jan 2 2 Jan 2 1 Jan 2</td><td>Norway: 1300 1300 1300 1400 1000</td><td>Norway 0</td></td> | WHX GNRs - Censtaurt Wall 97 05-bar-23 NW GORs - Filluptic formation level 111 13-bar-23 NW GORs - Filluptic formation level 09-bar-23 09-bar-23 NW GORs - Filluptic formation level 25-bbr-23 09-bar-23 NW GORS - Filluptic formation level + 5.2/+5.9 7-7 25-bbr-23 NW GORW - Constaurt Bare Sible (Bay 1) 27 25-bbr-23 NW GORW - Constaurt Bare Sible (Bay 1) 27 30-bbr-23 NW GORW - Constaurt Bare Sible (Bay 2) 7 12-bbr-23 NW GORW - Constaurt Bare Sible (Bay 3) 25 14-bbr-23 NW GORW - Constaurt Bare Sible (Bay 3) 25 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 25 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 25 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 26 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 26 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 27 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 27 14-bbr-23 NW GORW - Constaurt Wall (Bay 3) 26 26-bbr-23 | Wind Notes - Constant Wall 1 0 12.3.m.23 12.3.m.23 NW CORe - Constant Wall 0 1.3.m.23 28.3.m.23 28.3.m.23 NW CORe - Constant Wall (See Top Internation Read 0 0 3.3.m.23 28.3.m.23 NW CORe - Constant Wall (See Top Internation Read + 5.2/+5.9 0 0 2.5.m.23 0.4.M.23 NW CORW - Facture for and Report 0.4 0 2.5.M.23 0.4.M.23 NW CORW - Constant Base Sile (Rey 1) 0 2.6.M.23 1.4.M.23 NW CORW - Constant Base Sile (Rey 3) 0 2.4.M.23 1.4.M.23 NW CORW - Constant Base Sile (Rey 3) 0 1.4.M.23 1.4.M.23 NW CORW - Constant Wall (Bey 3) 0 1.4.M.23 1.4.M.23 NW CORW - Constant Wall (Bey 3) 0 1.4.M.23 1.4.M.23 NW CORW - Constant Wall (Bey 3) 0 1.4.M.23 1.4.M.23 NW CORW - Constant Wall (Bey 3) 0 1.4.M.23 1.4.M.23 NW CORW - Constant Wall (Bey 3) 0 1.4.M.23 1.4.M.23 Se - Restatte the Stope Feature 11NE-C/PS9 < | NMC ORNE - Constanct
Valial 12 <t< td=""><td>NVCXRen-Constant Valial 100 100 12.00000 20.000000 20.00000 20.000000</td><td>NVCKRee-Constant/Wall 0 65-bar.2 1.2.bar.2 2.8.0-22 0.446-v23 1.0 NVCKRee-Constant/Wall 1.0 1.3.0-2 28-bar.2 0.646-v23 2.040-v23 1.0 NVCKRee-Constant/Sectionation loved 1.0 1.3.0-2 2.5-bar.2 0.646-v23 2.646-v23 1.0 NVCKRee-Constant/Sectionation loved 1.4 0.9-0-7.2 2.5-bar.2 0.646-v23 2.446-v23 0.646-v23 2.446-v23 0.646-v23 2.146-v23 0.646-v23 2.146-v23 0.646-v23 2.146-v23 0.646-v23 <</td><th>NVCORe-Conduct Yael 9 95-3m-23 12-3m-23 28-0x-23 04-40x-24 1.0 NVCORe-Conduct Yael 10 13-3m-23 28-3m-23 06-40x-23 24-40x-24 1.00 NVCORe-Conduct Service 10 09-3m-23 26-3m-23 02-46x-24 24-46x-24 1.00 NVCORe-Conduct Service 10 09-3m-23 26-3m-23 02-46x-24 24-46x-24 1.00 NVCORe-Conduct Service 10 09-3m-23 26-3m-23 11-43-23 21-3m-23 1.11 1.00 NVCORW-Conduct Service 10 09-4m-23 24-4m-23 14-3m-23 21-3m-23 1.11 1.00 NVCORW-Conduct Service Side (69/1) 7 26-4m-23 14-4m-23 16-4m-23 24-4m-23 14-4m-23 14-</th><td>Window Constant Wall In 2 09.200 12.200 09.4000 12.00 12</td><td>WORKING-Constant Wall 17 05-bar 20 12-bar 20 06-bar -20 06-bar -20<!--</td--><td>Wird Note Gruntut Vall Image: Signame Signame</td><td>Wirder-Crintert Wall I 0</td><td>Norder-circutudi 1 04.042 04.042 04.042 0.0 0 0 NOrder-Fridge formetor hold 1 13.0472 20.0472 0.00402 <</td><td>Norder-Grunts Mul 17 654/2 124/2 246/2 144/2 12 1</td><td>with a character state indexed 1 13.40 13.40 14.40 <td< td=""><td>with a set of the set of</td><td>mining 0
 0 0</td></td<></td></td></t<> <td>minute -7 64x2 14x2 24x2 14x2 14x2</td> <td>mixed matched 7 6 Jan 2 1 Jan 2 2 Jan 2 1 Jan 2</td> <td>Norway: 1300 1300 1300 1400 1000</td> <td>Norway 0</td> | NVCXRen-Constant Valial 100 100 12.00000 20.000000 20.00000 20.000000 | NVCKRee-Constant/Wall 0 65-bar.2 1.2.bar.2 2.8.0-22 0.446-v23 1.0 NVCKRee-Constant/Wall 1.0 1.3.0-2 28-bar.2 0.646-v23 2.040-v23 1.0 NVCKRee-Constant/Sectionation loved 1.0 1.3.0-2 2.5-bar.2 0.646-v23 2.646-v23 1.0 NVCKRee-Constant/Sectionation loved 1.4 0.9-0-7.2 2.5-bar.2 0.646-v23 2.446-v23 0.646-v23 2.446-v23 0.646-v23 2.146-v23 0.646-v23 2.146-v23 0.646-v23 2.146-v23 0.646-v23 < | NVCORe-Conduct Yael 9 95-3m-23 12-3m-23 28-0x-23 04-40x-24 1.0 NVCORe-Conduct Yael 10 13-3m-23 28-3m-23 06-40x-23 24-40x-24 1.00 NVCORe-Conduct Service 10 09-3m-23 26-3m-23 02-46x-24 24-46x-24 1.00 NVCORe-Conduct Service 10 09-3m-23 26-3m-23 02-46x-24 24-46x-24 1.00 NVCORe-Conduct Service 10 09-3m-23 26-3m-23 11-43-23 21-3m-23 1.11 1.00 NVCORW-Conduct Service 10 09-4m-23 24-4m-23 14-3m-23 21-3m-23 1.11 1.00 NVCORW-Conduct Service Side (69/1) 7 26-4m-23 14-4m-23 16-4m-23 24-4m-23 14-4m-23 14- | Window Constant Wall In 2 09.200 12.200 09.4000 12.00 12 | WORKING-Constant Wall 17 05-bar 20 12-bar 20 06-bar -20 06-bar -20 </td <td>Wird Note Gruntut Vall Image: Signame Signame</td> <td>Wirder-Crintert Wall I 0</td> <td>Norder-circutudi 1 04.042 04.042 04.042 0.0 0 0 NOrder-Fridge formetor hold 1 13.0472 20.0472 0.00402 <</td> <td>Norder-Grunts Mul 17 654/2 124/2 246/2 144/2 12 1
 1 1</td> <td>with a character state indexed 1 13.40 13.40 14.40 <td< td=""><td>with a set of the set of</td><td>mining 0</td></td<></td> | Wird Note Gruntut Vall Image: Signame | Wirder-Crintert Wall I 0 | Norder-circutudi 1 04.042 04.042 04.042 0.0 0 0 NOrder-Fridge formetor hold 1 13.0472 20.0472 0.00402 < | Norder-Grunts Mul 17 654/2 124/2 246/2 144/2 12 1 | with a character state indexed 1 13.40 13.40 14.40 <td< td=""><td>with a set of the set of</td><td>mining 0</td></td<> | with a set of the set of | mining 0 | minute -7 64x2 14x2 24x2 14x2 14x2 | mixed matched 7 6 Jan 2 1 Jan 2 2 Jan 2 1 Jan 2 | Norway: 1300 1300 1300 1400 1000
 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 | Norway 0 |

D	Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Total Float	TRA (Da	February 46			March 47			Api 48	1			May 49			Ju	ė	_
5A-5556	S019/S020 - Sign Gantry G31 Footing (EB)	28	25-Feb-23	29-Mar-23	24-Jul-23	24-Aug-23	119	4.0	2 29 05 12 1	1 5	6 05	12	19 26	02	09	16	23 30	07	14	21	28 0	4 11	18	F
5A-5554	S019/S020 - Reconstruct Kai Fuk Road (EB) / Road and Drainage works /		28-Apr-23	01-Jun-23	19-5ep-23	24-0d-23	119	4.0									1							
	Utilities Laying																1		-					
	id Kai Cheung Road U-turn		25-Feb-23	12-Apr-23	18-Jul-23	28-Oct-25	751	8.0																
5A-5565	KORd - Reinstate Kai Cheung Road U-turn for falsework(Bridge S2)		25-Feb-23	17-Mar-23	18-Jul-23	07-Aug-23	114	4.0											<u>.</u>					
5A-5564	KCRd - Reinstate Kai Cheung Road U-turn (Bridge S1/59)	18	18-Mar-23	12-Apr-23	08-Oct-25	28-Oct-25	751	4.0																
At-grade Roa	d MCEB/MCWB (East - except Part 4A/4C)	145	05-Oct-22 A	31-Jul-23	03-Mar-23	14-May-26	828	3.0																
At-grade Roa	ad MCWB																							
5A-5582A	MCMB(E) - Sign Gantry G37 Footing (2 in total)	14	05-Oct-22 A	03-Feb-23 A	14-May-26	14-May-26		3.0	-															
5A-5580	BEM - MCWB(E) - Site formation / Drainage Works / Utilities Laying (Part 1- 5+350 to 5+550)	145	26-Jan-23 A	31-Jul-23	03-Mar-23	25-Jul-23	-5									-			-	_			-	÷
At-grade Roa	d MCEB/MCWB (Part 4A/4C)	97	25-Feb-23	26-Jun-23	17-Od-23	30-Apr-26	845	33.0																
At-grade Roa	ad MCEB		25-Feb-23	13-Jun-23	17-Od-23	30-Apr-26		17.0																
5A-5592	4A/4C - Access to Par 4A/4C	0	25-Feb-23		17-Oct-23		190			•														
5A-5594	4A/4C - Initial survey / mobilisation	12	25-Feb-23	10-Mar-23	17-Od-23	31-Oct-23	190	2.0			_													
5A-5596	BIM - MCEB(E) - Drainage Works / TCSS duct	43	11-Mar-23	05-May-23	27-Nov-23	18-Jan-24	212	6.0										-						
5A-5598	MCEB(E) - Road formation Pavement (Sub-base, Road Base and Base Course)		06-May-23	23-May-23	25-Mar-26	10-Apr-26	855	2.0		-										_				-
5A-5600	MCEB(E) - Sign Gantry G42 Footing x2		06-May-23	22-May-23	19-Jan-24	03-Feb-24	212	2.0										-	1					
54-5602	BIM - MCEB(E) - Erect Sign Gantry G42		23-May-23	30-May-23	05-Feb-24	17-Feb-24	212	2.0																
5A-5604	MCEB(E) - Road Pavement (Wearing Course and Friction Course)		24-May-23	30-May-23	11-Apr-26	16-Apr-26	855	1.0																
			,																					
5A-5606	MCEB(E) - Road marking / Road Furniture	12	31-May-23	13-Jun-23	17-Apr-26	30-Apr-26	855	2.0																1
																								1
5A-5608	BIM - MCV/B(E) - Drainage Works / Utilities / TCSS duct Laying	85	11-Mar-23	26-Jun-23	01-Nov-23	17-Feb-24	190	12.0										-						-
5A-5610	MCWB(E) - Drainage Works (Part 4B3) / / Utilities Laying	28	27-Mar-23	03-May-23	26-Feb-26	30-Mar-26	862	4.0					-			-								
Shing Kai Roa	ad	180	10-Feb-23 A	10-Aug-23	15-Nov-23	29-Dec-23	116	0.0																
5A-5698A	SA- application for exacavtion permit for Shing Kai Road area	180	10-Feb-23 A	10-Aug-23	15-Nov-23	29-Dec-23	116										-	_		_	-		_	÷
Kai Fuk Road	(West Bound)	30	02-Jun-23	08-Jul-23	26-Oct-23	29-Nov-23	120	0.0																T
5A-5810	5A - Implement TTA scheme for Sign Face Support for FADS T4(A)	0	02-Jun-23		26-Oct-23		120														•			
5A-5812	SA - Site dearance / trial pit	12	02-Jun-23	15-Jun-23	26-Oct-23	08-Nov-23	120														Ė	-		
5A-5814	SA - ELS for Footing	18	16-Jun-23	08-Jul-23	09-Nov-23	29-Nov-23	120																-	-
Kai Fuk Road	I (WB) - TCSS duct Laying	24	02-Jun-23	30-Jun-23	28-Oct-23	24-Nov-23	122	6.0																
5A-5830	BEM - 5A - Implement TTA scheme for TCSS duct Laying along Ruel Station	0	02-Jun-23		28-Oct-23		122																	
5A-5832	Slip Road BEM - 5A - TCSS duct laying along Footpath	24	02-Jun-23	30-Jun-23	28-Oct-23	21-Nov-23	122	6.0															_	
	I (EB) - Maintain 3 traffic lanes until CKR commissioning (PMI 253		10-Aug-22 A	16-Sep-23	24-Nov-22	20-Jun-24	219	0.0																
5A-5842	KFR(EB) - 3 lanes - UU diversion for CLP/Towngat/HKT/HGC/HKBN; set-back		10 Aug-22 A	25-Feb-23	29-Jun-23	29-Jun-23	100																	
5A-5848	KFR(EB) - 3 lanes - old dives an init cary rowing agrink () initially, second x KFR(EB) - 3 lanes - existing planter removal works		31-Aug-22 A	25-Feb-23	22-Sep-23	22-Sep-23	172																	
5A-5848	KPR(EB) - 3 lanes - UU diversion for watermain and drainage; set-back		25-Feb-23	25-P40-23 25-May-23	30-lun-23	22-58p-23	172												<u>.</u>					
5A-5850	KFR(EB) - 3 lanes - Road works and pavement (for KFR TTA 4)		27-May-23	24-Jun-23	23-Sep-23	24-0d-23	100													-				1
TTA 4.1 EB 5	Set Back (with on-street bus stop)	56	30-Mar-23	11-Jun-23	11-Mar-23	16-Mar-23	-68	0.0																
_																		Date			levision		Checker	ati
Current Mik		owley	n Route	a - Kai '	Tak Eas	t (Mont	h /6	Und	te) (Rev38- CSD)		Project ID: Baseline:	: KTE-WP38	_M46					25-Aug-22 25-Sep-22	Submt	CSD Program	me Rev 32v	th M40 Mon th M41 Mon	TWY	
	naining Work	0000				ing Pro			(Nev30-03D)		Layout: KT	TE - 3 Month						25-Od-22 25-Nov-22	Submit	CSD Program	me Rev 34v	th M42 Mon th M43 Mon	TWY	
Remaining	Work						g, ann	ine.			Filter: TAS	SK filters: 3 N	Aonths Rolli	ng_1, KTE	E - Submis	ision.		15-Dec-22	Submit	CSD Program	me Rev 38v	th M44 Mon	TW	DX
											Page 14 o	440						20-Jan-23 25-Eeb-23			me Rev 37v me Rev 38v	th M45 Mon		DC

	Activity Name	Orig Dur	Stat	Finish	Lale Start	Late Finish	Total TR Float	IA (Day)	February 46	Warch 47	April 48	Ma 49	y	June 50	
C1000	TMLG Approval on TTA Scheme (For TTA 4.1A with On-street Bus Stop)	0		30-Mar-23*		11-Mar-23	-16	2	29 05 12 19	26 05 12 19 26	02 09 16 23	30 07	14 21 28	04 11	18
C1010	Apply Traffic Notice (for E/B Setback)	4	31-Mar-23	04-Apr-23	13-Mar-23	16-Mar-23	-16				•				
TTA1010	TTA Implementation for KFR Stage 4.1A EB Set Back (till Wall E4)	0		11-Jun-23		16-Mar-23	-87							-	
KFR- Addition	al works in Area 1 (Nearby Existing Bus Stop)	79	16-Feb-23 A	03-Jun-23	24-Nov-22	10-May-23	-20	0.00							
A1280	Fire Hydrant Relocation Works		16-Feb-23 A	26-Apr-23	13-Jan-23	16-Mar-23	-31								
A1250	Drainage Works (assume no unexpected UU issue)	21	16-Feb-23 A	11-Mar-23	24-Nov-22	08-Dec-22	-71	_							
A1320	Temp Bus Station Design		16-Feb-23 A	18-Mar-23	26-Nov-22	17-Dec-22	-69								
TTA1030	Apply Traffic Notice (for Temp Relocation of Bus Stop)		01-Mar-23*	04-Apr-23	01-Dec-22	07-Jan-23	-68	_			_				
A1290	Construct Concrete Pavement		13-Mar-23	21-Mar-23	09-Dec-22	17-Dec-22	-71	_							
A1270	Temp Bus Station Shelter		22-Mar-23	01-Apr-23	19-Dec-22	31-Dec-22	-71	_							
A1340	Construct Bituminous Pavement		22-Mar-23	01-Apr-23	19-Dec-22	31-Dec-22	-71								
A1220	Ubility Diversion Works (Indude Watermain)		01-Apr-23	03-Jun-23	09-Mar-23	10-May-23	-20								
A1345	Roadworks and Set-up for TTA	8	02-Apr-23	09-Apr-23	01-Jan-23	08-Jan-23	-91								
TTA1000	TTA Implementation for Temporary Relocation of Bus Stop	0		09-Apr-23		08-Jan-23	-91				•				
KFR- Addition	al works in Area 2 (next to KITEC)	167	16-Feb-23 A	16-Sep-23	26-Nov-22	20-Jun-24	219	0.00							
Tree Remov	al (TTA sub-stage)	167	16-Feb-23 A	16-Sep-23	21-Nov-23	20-Jun-24	219	0.00							
A1170	TPRP Approval	90	16-Feb-23 A	01-Jun-23	21-Nov-23	28-Feb-24	219								
A1180	Tree Removal Works (4 nos) (all night work)	12	02-Jun-23	15-Jun-23	29-Feb-24	13-Mar-24	219								
A1181	Road works for TTA implementation (partially night work)	78	16-Jun-23	16-Sep-23	14-Mar-24	20-Jun-24	219							_	
Utility Divers	sion	15	15-Mar-23	31-Mar-23	13-Feb-23	01-Mar-23	-26	0.00							
A1160	Temporary Protection of Existing Cables at Planter Area	15	15-Mar-23*	31-Mar-23	13-Feb-23	01-Mar-23	-26								
Drainage		39	11-Apr-23	27-May-23	09-Jan-23	01-Mar-23	-69	0.00							
A1260	ELS for Drainage Works (assume no unexpected UU issue)		11-Apr-23	03-May-23	09-Jan-23	06-Feb-23	-69					_			
A1150	Drainage Works (assume no unexpected UU issue)	20	04-May-23	27-May-23	07-Feb-23	01-Mar-23	-69	_				_			
Watermain			16-Feb-23 A	27-May-23	26-Nov-22	01-Mar-23	-69	0.00							
A1080	Trial Pit Excavation/Site Investigation		16-Feb-23 A	27-Mar-23	01-Dec-22	03-Jan-23	-65	0.00							
A1090			16-Feb-23 A	31-Mar-23	26-Nov-22	03-Jan-23	-69	_							
	Obtain approval on diversion plan from WSD														
A1110	Watermain Material Procurement		16-Feb-23 A	31-Mar-23	26-Nov-22	03-Jan-23	-69								
A1100	Watermain Diversion (inculde fire hydrant works in Area 2)		01-Apr-23	18-Apr-23	04-Jan-23	16-Jan-23	-69								
A1350	Testing for Watermain		19-Apr-23	06-May-23	17-Jan-23	09-Feb-23	-69								
A1360	Watermain Connection by WSD	17	08-May-23	27-May-23	10-Feb-23	01-Mar-23	-69								
Final Comple	etion Work	12	29-May-23	11-Jun-23	02-Mar-23	16-Mar-23	-68	0.00							
A1120	Backfilling (with coarse fill material)	4	29-May-23	01-Jun-23	02-Mar-23	06-Mar-23	-69						-		
A1130	Kerb Construction	3	02-Jun-23	05-Jun-23	07-Mar-23	09-Mar-23	-69						•	•	
A1140	Bituminous Pavement (duration for test result is exculded)	3	06-Jun-23	08-Jun-23	10-Mar-23	13-Mar-23	-69							-	
A1370	Set-up for TTA	3	09-Jun-23	11-Jun-23	14-Mar-23	16-Mar-23	-87							-	
	al works in Area 3 (next to Sinopec)	121	01-Apr-23	29-Aug-23	02-Mar-23	29-Jul-23	-26	0.00		-					
KFR- Addition										(1) (1) (2) (3) (4) (4) (4)					

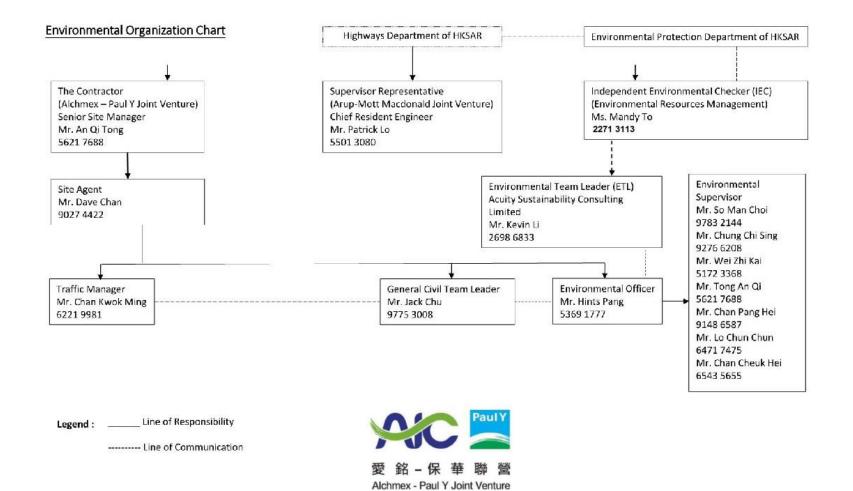
ty ID	Activity Name	Orig I	Dur Stat	Finish	Lale Start	Late Finish	Total Float	TRA (Day)	February 46	March 47	April 48	May 49		June 50	
Watermai	in Diversion		55 01-Apr-23	10-Jun-23	02-Mar-23	10-May-23	-26	0.00	05 12 19	26 05 12 19 2	6 02 09 16 2	3 30 07 14	21 28 04	11 18	25
A1005	Watemain Diversion		28 01-Apr-23	09-May-23	02-Mar-23	03-Apr-23	-26								
A1230	Testing for Watermain		1 10-May-23	10-May-23	04-Apr-23	04-Apr-23	-26					1			
A1010	WSD Connection Work		26 11-May-23	10-Jun-23	06-Apr-23	10-May-23	-26								
SCH 6B Re-co	onstruction of Existing Box Culvert		30 25-Feb-23	31-Mar-23	29-Jun-23	03-Aug-23	99	0.00							
	re-construction Works		30 25-Feb-23	31-Mar-23	29-Jun-23	03-Aug-23	99	0.00							
	ement Works		30 25-Feb-23	31-Mar-23	29-Jun-23	03-Aug-23	99	0.00							-
6B-5782	BC - Reinstate hard paving and related UU		12 25-Feb-23	10-Mar-23	29-Jun-23	13-Jul-23	99								
6B-5784	BC - Reinstate planter wall in DSD compound		12 11-Mar-23	24-Mar-23	14-Jul-23	27-Jul-23	99								
6B-5786	BC - Transplant 5 nos of tree in DSD compound		3 11-Mar-23	14-Mar-23	25-Jul-23	27-Jul-23	108								
6B-5788	BC - Reinstate fending in DSD compound		6 25-Mar-23	31-Mar-23	28-Jul-23	03-Aug-23	99								
6B-5790	BC - Complete reconstruction of Box Culvert		0	31-Mar-23	20 301 23	03-Aug-23	99								
			.84 27-Mar-23	08-Nov-23	27-Mar-23	08-Nov-23	,,,	25.00			T				
	ilip Road S5 Works (Subject to Exc		.84 27-Mar-23	08-Nov-23	27-Mar-23	08-Nov-23	0	25.00							
58-6202	Drainage and Road Works 55 - Access Date for Part 481, 482 & 483		0 27-Mar-23	00100/23	27-Mar-23	001101-23		25.00							
58-6202				70.4 77		70.4 77	0					_			
	S5 - Initial Survey		24 28-Mar-23	28-Apr-23	28-Mar-23	28-Apr-23	0	0.00		-					
58-6206	S5 - Mobilisation works		24 29-Apr-23	29-May-23	29-Apr-23	29-May-23	0	0.00							
58-6208	S5 - Drainage Works / / Utilities Laying / TCSS d		35 30-May-23	08-Nov-23	30-May-23	08-Nov-23	0	25.00							
	scape Route for Slip Road S6 Worl							0.00							
Sch_5C S6 - D	Drainage and Road Works	1	.59 27-Dec-22 A	18-Jul-23	23-Jun-23	09-Oct-23	69	0.00							
5C-6302	S6 - Access Date for Part 3C		0 27-Dec-22 A		02-Aug-23										
5C-6307	S6 - Access Date for Part 483		0 27-Mar-23		23-Jun-23		88			•					
5C-6309	S6 - Drainage Works / Utilities Laying / TCSS due	t laying (Part 4B3)	90 27-Mar-23	18-Jul-23	23-Jun-23	09-Oct-23	69			-					-
Section 8 - V	entilation and E&M adit and Ring	Road Underpass	855 11-May-22 A	24-Jul-23	18-May-23	14-May-26	834	51.00							
Sch_6A Ventil	lation and E&M Adit Works	1	.58 23-Dec-22 A	06-Jul-23	14-Jul-23	18-Mar-24	207	17.00							
Area Part 1D:	1, 1D3, 1B1 & 1B2		6 02-Jan-23 A	11-Jan-23 A	14-Jul-23	14-Jul-23		0.00							
VA - Miscella	ineous		6 02-Jan-23 A	11-Jan-23 A	14-Jul-23	14-Jul-23		0.00							
VA - Stage 1	L Miscellaneous works		6 02-Jan-23 A	11-Jan-23 A	14-Jul-23	14-Jul-23		0.00							
6A-6607	VA - Haul Road preparation & diversion, stage 1	(end May 2021)	6 02-Jan-23 A	11-Jan-23 A	14-Jul-23	14-Jul-23									
Area Part 1C		1	44 23-Dec-22 A	06-Jul-23	07-Nov-23	18-Mar-24	207	17.00							
VA - ELS Wor	rks (Parts 1C)	1	.32 23-Dec-22 A	20-Jun-23	07-Nov-23	01-Mar-21	207	15.00							
6A-6632	VA - Excavation Down to 1st waling & Strut; Inst	al waling & Strut, 1C	12 23-Dec-22 A	22-Feb-23 A	07-Nov-23	07-Nov-23		2.00							
6A-6633	VA - Excavation Down to 2nd waling & Strut; In:	stall waing & Strut, 1C	13 23-Feb-23 A	15-Mar-23	07-Nov-23	24-Nov-23	207	2.00							
6A-6634	VA - Excavation Down to 3rd waiing & Strut; Ins	tail waling & Strut, 1C	16 16-Mar-23	03-Apr-23	25-Nov-23	13-Dec-23	207	2.00							
6A-6635	VA - Excavation Down to 4th waling & Strut; Ins	tall waling & Strut, 1C	16 04-Apr-23	26-Apr-23	14-Dec-23	04-Jan-24	207	2.00				1			
6A-6636	VA - Excavation Down to 5th waiing & Strut; Ins	tall waling & Strut, 1C	13 27-Apr-23	12-May-23	05-Jan-24	19-Jan-24	207	2.00							
6A-6637	VA - Exavation Down to 6th waling & Strut; Ins		13 13-May-23	29-May-23	20-Jan-24	03-Feb-24	207	2.00				_			
6A-6638	VA - Excavation Down to 7th waling & Strut; Ins		15 30-May-23	15-Jun-23	05-Feb-24	28-Feb-24	207	2.00						_	
															-
Current Mi		0 () () ()								Project ID: KTE-WP38_M46			Revision CSD Programme Rev 32with N		DC
	nts maining Wark	Central Kowle							ev38- CSD)	Baseline: Layout: KTE - 3 Months Rolling	Programme	25-Od-22 Submi	CSD Programme Rev 33with N CSD Programme Rev 34with N	42 Mon TYY	DC
Remaining	g Work		Thr	ee Mon	tn Rolli	ng Prog	ramn	ne		Filter: TASK filters: 3 Months Ro			CSD Programme Rev 35with N CSD Programme Rev 39with N		DC

	Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Total Float	TRA (Day	46	47 48 49 50
6A-6640	VA. Exemption Dougs to East Exemption Local 10		16 hm 32	20 hun 22	20 Erb 24	04 May 24		1.00	29 05 12 19	26 05 12 19 28 02 09 16 23 30 07 14 21 28 04 11 18
	VA - Excavation Down to Final Formation Level, 1C		16-Jun-23	20-Jun-23	29-Feb-24	04-Mar-24	207	1.00		
VA - Pile Cap P		12	21-Jun-23	06-Jul-23	05-Mar-24	18-Mar-24	207	2.00		
6A-6642	VA - Prepare Pile Head for PC1	12	21-Jun-23	06-Jul-23	05-Mar-24	18-Mar-24	207	2.00		
h_4.1 Ring R	toad Underpass	355	11-May-22 A	24-Jul-23	18-May-23	14-May-26	834	34.00		
R - Part 1D1,	, 1D2, 1D3, 1D4, 1B1 & 1B2	287	11-May-22 A	02-May-23	14-Jul-23	14-May-26	902	2.00		
RR - Box Secti	ions, Pump Sump & FS Plant Room	287	11-May-22 A	02-May-23	14-Jul-23	14-May-26	902	2.00		
RR - Interface	e with DCS Contractor (1002EM19A)		11-May-22 A	02-May-23	24-Nov-23	14-May-26		0.00		
4-6700-1	RR-DCS pipe laying (stage 1) by DCS contractor- 16 Aug 22 to 9 Oct 22	43	11-May-22 A	25-5eb-23	24-Nov-23	24-Nov-23	223			
4-6700-2	(stage 1a +1b) RR-DCS pipe laying (stage 2) by DCS contractor- 1 Oct 2022 to 21 Nov 2022		25-Feb-23	25-Feb-23	24-Nov-23		223			
	(stage 2a+2b)									
4-6700-3	RR- DCS pipe laying (stage 3) by DCS contractor- 22 Nov 22 - 31 Jan 23		25-Feb-23	02-May-23	16-Mar-26	14-May-26	902			
4-6754	RR-R4 - Construct Top Slab	21	20-Jan-23 A	21-Feb-23 A	14-Jul-23	14-Jul-23		2.00		
RR - Miscellan	eous Works	8	25-Feb-23	06-Mar-23	25-Nov-23	04-Dec-23	223	0.00		
RR - Stage 5 I	Miscellaneous Works		25-Feb-23	06-Mar-23	25-Nov-23	04-Dec-23		0.00		
4-6804	RR - Final completion works	8	25-Feb-23	06-Mar-23	25-Nov-23	04-Dec-23	223	0.00		
R - Part 1C			14-Jan-23 A	24-Jul-23	18-May-23	13-Dec-23	119	32.00		
RR - ELS Work	re (Paster 10)	74	14-Jan-23 A	21-Mar-23	18-May-23	12-Jun-23	65	10.00		
							0.5			
4-6826	RR - Excavation Down to 1st waling & Strut; Instal waling & Strut, 1C			22-Feb-23 A	18-May-23	18-May-23		4.00		
4-6828	RR - Excavation Down to 2nd waling & Strut; Install waling & Strut; 1C		23-Feb-23 A	14-Mar-23	18-May-23	05-Jun-23	65	4.00		
4-6832	RR - Excavation Down to Final Formation Level, 1C	6	15-Mar-23	21-Mar-23	06-Jun-23	12-Jun-23	65	2.00		
RR - RC Struct	ure	75	22-Mar-23	24-Jun-23	13-Jun-23	09-Sep-23	65	15.00		
RR - Pile Cap	PC1		22-Mar-2.3	29-Apr-23	13-Jun-23	19-Jul-23		4.00		
4-6834	RR - Prepare Pile Head for PC1	14	22-Mar-23	11-Apr-23	13-Jun-23	29-Jun-23	65	2.00		
4-6836	RR - Construct: Pile Cap PC1	16	12-Apr-23	29-Apr-23	30-Jun-23	19-Jul-23	65	2.00		
PP - Ray P1 /	S011 CH0+118.88 to 0+130)	45	02.Mar./23	24.lun.23	20.00623	09.5m.23	65	7.00		
4-6838	RR-R1 - Construct Base slab	12	02-May-23	15-May-23	20-Jul-23	02-Aug-23	65	2.00		
4-6840	RR-R1 - Construct External Vital		16-May-23	01-Jun-23	03+Aug+23		65	2.00		
4-6842	RR-R1 - Construct Top Slab	19	02-Jun-23	24-Jun-23	19-Aug-23	09-Sep-23	65	3.00		
4-6738	RR-R2 - Construct Base slab	10	16-May-23	27-May-23	16-Aug-23	26-Aug-23	76	2.00		
4-6740	RR-R2 - Construct External Wall	12	29-May-23	10-Jun-23	28-Aug-23	09-Sep-23	76	2.00	· · · · · · · · · · · · · · · · · · ·	
RR - Miscellan	eous Works	50	24-May-23	24-Jul-23	16-Oct-23	13-Dec-23	119	7.00		
4-6844	RR - Install Profile Barriers	50	24-May-23	24-Jul-23	16-Od-23	13-Dec-23	119	7.00		
ction 9 - W	orks in Part 3A (Site Accommodation)	1265	30-0d-19 A	16-Apr-23	25-Fdb-23	16-Apr-23	0	0.00		
		1265	30-Oct-19 A	16-Apr-23	25-Feb-23	16-Apr-23		0.00		
ch_1 Site Aco							0			
-6904	SA - Site Accommodation		30-Oct-19 A	19-Mar-23	25-Feb-23	19-Mar-23	0	0.00		
-6906	SA - Notify to demolish site accommodation at Part 3A (5 wks before Handover)		20-Mar-23		20-Mar-23		0			
-6908	SA - Demolish Site Accommodation & Vacation of Part 3A	28	20-Mar-23	16-Apr-23	20-Mar-23	16-Apr-23	0	0.00		
	T									Date Revision Checked
Current Miles			- D+	- Ke			- 40) (D-w29, CCD)	Project ID: KTE-WP38_M46 25Aug-22 Submit CSD Programme Rev 32with M40 Mon TYY
Critical Reme	aning Wark Central K	owioo) (Rev38- CSD)	Baseline: 255ep-22 Submt CSD Programme Rev 33with M41 Mon TYY Layout: KTE - 3 Months Rolling Programme Rev 34with M42 Mon TYY
Remaining V			Thr	ee Mor	th Roll	ing Pro	gramr	ne		Filter: TASK filters: 3 Months Rolling_1, KTE - Submission. 25Nbv-22 Submit CSD Programme Rev 39with M43 Mon TYY 15Dec22 Submit CSD Programme Rev 39with M44 Mon TYY
										20-Jan-23 Submit CSD Programme Rev 37vith M45 Mon TYY

ity ID	Activity Name	Orig Dur	Stat	Finish	Lale Start	Late Finish	Total Float	TRA (Da	4	February 46			March 47			Ap 45	n 3		-		May 49				June 50		_
1-6910	SA - Completion of Section 9	0		16-Apr-23		16-Apr-23	0		2	29 05 12 19	26	05	12 19	26	02	09	16	23	30	07	14	21	28	04	11	18	2
		146	24-0±22-4	27-App.22	22,101.22	18.5m-22	110	7.0																			
	 Footbridge, E&M Installation and Miscellaneous Wo 			27-401-23	22-301-23	18-560-75	119																				
	Ion Exisitng Subway KS-20		24-0d-22 A	27-Apr-23	22-Jul-23	18-Sep-23	119	7.0																			
KS-20 - Den	nolistion / Filling Works	146	24-Oct-22 A	27-Apr-23	22-Jul-23	18-Sep-23	119	7.0	2																		
Kai Fuk Roa	d (EB)	146	24-0ct-22 A	27-Apr-23	22-Jul-23	18-Sep-23	119	7.0	2																		
10-8564	S019 - Reconstruct Bus Stop Bay (Permanent) (Kai Fuk Road EB) - buse shelter (PMI-508)	48	24-Oct-22 A	25-Feb-23	22-Jul-23	22-Jul-23	119		-																		
7-7320	S019 - Reconstruct Bus Stop Bay (Permanent) (Kai Fuk Road EB) - layby	28	25-Feb-23	29-Mar-23	24-Jul-23	24-Aug-23	119	4.0	s					-													
7-7322	KS20 - Reinstate Footpath / Road pavement	21	30-Mar-23	27-Apr-23	25-Aug-23	18-Sep-23	119	3.0	0									_									
7-7334	KS20 - Complete Abandon of Exisiting Subway	0		27-Apr-23		18-Sep-23	119		-																		
Section 11	- Structure of Bridge CKRE	182	01-Dec-22 A	14-Jul-23	14-Mar-23	29-Oct-24	382	11.0	5																		
	dge CKRE Works		01-Dec-22 A	14-Jul-23	14-Mar-23	29-0xt-24	382	11.0																			
-			25-Feb-23	07-Mar-23	22-5ep-23	04-0ct-23	171	0.0																			
	Caps, Pier / Abutment																										
Abutment A			25-Feb-23	07-Mar-23	22-Sep-23	04-0d-23	171	0.0																			
3.10-7538	CKRE - A-K1-CKRE Install Permeate Membrane and Baddfill	9	25-Feb-23	07-Mar-23	22-Sep-23	04-Oct-23	171	0.0				-															
CKRE - Deck	:	101	01-Dec-22 A	01-Apr-23	14-Mar-23	13-0d-23	157	0.0	>																		
CKRE- Span	K1-CKRE - K5-CKRE	16	01-Dec-22 A	22-Dec-22 A	14-Mar-23	14-Mar-23		0.0	<mark>5</mark>																		
3.10-7584	OKRE - Span K1-K5 Deck Section	16	01-Dec-22 A	22-Dec-22 A	14-Mar-23	14-Mar-23		0.0	a l																		
CKRE- Span	K5-CKRE - K4-CKRE	101	01-Dec-22 A	01-Apr-23	14-Mar-23	13-Oct-23	157	0.0	0																		
3.10-7604	CKRE - Span K5-K4 Deck Section	16	01-Dec-22 A	29-Dec-22 A	14-Mar-23	14-Mar-23		0.0	5																		
3.10-7592	CKRE -Span Post-tensioning and Grouting (Stage 1)	12	24-Dec-22 A	18-Mar-23	14-Mar-23	04-Apr-23	14																				
3.10-7607	OKRE - Bridge OKRE Remove Falsework and Formwork		20-Mar-23	01-Apr-23	28-Sep-23	13-Oct-23	157		-																		
			20-Mar-23	14-Jul-23	06-Apr-23	29-Oct-24	382	11.0																			
	ellaneous Works																										
	ks for Section 11	63		07-Jun-23	06-Apr-23	18-Dec-23	161	5.0																			
3.10-7608	BEM - OKRE - Install Parapet Wall / TCSS duct (L)	39	20-Mar-23	09-May-23	05-Oct-23	20-Nov-23	161	3.0	2				-					-	-								
3.10-7617	OKRE - Preparation for haul road	3	20-Mar-23	22-Mar-23	06-Apr-23	12-Apr-23	14																				
3.10-7618	CKRE - Opening to Interfacing Contractors	0		22-Mar-23		12-Apr-23	14						•														
3.10-7613	CKRE - End wall construction (Abutment)	24	03-Apr-23	05-May-23	28-Oct-23	24-Nov-23	168		1								_	_									
3.10-7612	CKRE - Movement Joint	12	29-Apr-23	13-May-23	11-Nov-23	24-Nov-23	161	2.0	0												1						
3.10-7614	CKRE - Road pavement; Road marking	6	15-May-23	20-May-23	25-Nov-23	01-Dec-23	161	0.0	D																		
3.10-7616	CKRE - Final completion works	14	22-May-23	07-Jun-23	02-Dec-23	18-Dec-23	161	0.0	o i																		
	aining Works	54	10-May-23	14-Jul-23	20-Feb-24	29-Oct-24	382	6.0	3																		
3.10-7610	CKRE - Bridge Drainage Works		10-May-23	09-Jun-23	20-Feb-24	20-Mar-24	230	2.0												_	1	<u> </u>		_			
3.10-7620	CKRE - Road Lighting and Road Furniture		12-May-23	14-Jun-23	27-Aug-24	28-Sep-24	382	4.0													<u>.</u>						
																				-							
3.10-7622	CKRE - Final completion works	24	15-Jun-23	14-Jul-23	30-Sep-24	29-Oct-24	382	0.0	'																		
	- Underpass S21																										
Sch_4.3 Slip	Road Underpass S21	98	25-Feb-23	27-Jun-23	04-Nov-23	14-May-26	856	16.0	1																		
521 - RC St	ucture	12	25-Feb-23	10-Mar-23	01-May-26	14-May-26	942	2.0	>																		
S21 - U-Tro	ugh Sections - South (CH000 to CH143.981)	12	25-Feb-23	10-Mar-23	01-May-26	14-May-26	942	0.0	c.																		
									_					1													_
Unrent l											Pri	oject ID: K	TE-WP38_	146					25	Dete -Aug-22	Submit	CSD Progr	Revision amme Rev	32with MF	10 Mon T	Checked YY	A; DC
Actual W	ork Central K	owlo							ite) ((Rev38- CSD)		seline:	2.11	Delline D					25	-Sep-22 -Od-22	Submit	CSD Progr	amme Rev	v 33with M4	41 Mon T	ΥY	DC
Remainin			Thr	ee Mor	th Roll	ing Pro	gramn	ne					- 3 Months filters: 3 Mo			- Submis	ssion.		25	-New-22	Submt	CSD Progr	amme Rev	35with M4	13 Mon T	W	DC
																			20	-Dec-22 Jan-23	Submit		amme Rev	v 37vikh M4	15 Mon T	W	DC DC
											Pa	ge 18 of 1	9						25	-Feb-23	Submit	CSD Progr	amme Rev	/ 3Builth MA	16 Mon T	N	DC

	Activity Name	Orig Dur	Stat Fir	isn La	ale Start	Late Finish	Total Float	TRA (Day)		46		March 47			April 48			M8 49	9			June 50		
S21 - Bay B2-1	10 - At-Grade Slab (CH009.376 to 000)	12 25	-Feb-23 10-14	kr-23 01-	1-May-26 1	14-May-26	942	0.00	29 05	12 19	26 05	12	19 26	02 0	9 16	23	30	07 1	14 21	28	04	11	18	25
4-7812	S21-B2-10 - Construct At Grade slab	12 25	-Feb-23 10-M	ar-23 01-	1-May-26 1	14-May-26	942	0.00																
S21 - U-Trough S	Sections - North (CH205.700 to CH354.957)	12 25	-Feb-23 10-M	lar-23 01-	1-May-26 1	14-May-26	942	2.00																
	- At Grade Slab Part 3E (CH321.11 to 354.957) Part 3E		-Feb-23 10-M	lar-23 01-	1-May-26 1	14-May-26		2.00																
4-7868	521-83-9 - Construct At Grade slab	12 25	-Feb-23 10-M	lar-23 01-	1-May-26 1	14-May-26	942	2.00																
S21 - Miscellane	eous Works	98 25	-Feb-23 27-J	un-23 04-	4-Nov-23	11-Jun-24	280	14.00																
S21 - Roads and	d Pavings	98 25	-Feb-23 27-J	un-23 04-	4-Nov-23	11-Jun-24	280	14.00																
4-7876	S21 - Install Profile Barriers (1) (ind. TCSS ducting)	70 25	-Feb-23 23-M	ay-23 04-	4-Nov-23	27-Jan-24	205	5.00								1 1	_	-	-					
4-7878	S21 - Install Profile Barriers (2) (ind. TCSS duding)	70 11	-Mar-23 07-Ji	un-23 18-	8-Nov-23	17-Feb-24	205	5.00									-				-			
4-7882	S21 - Road Lighting and Road Furniture	28 24	-May-23 27-J	un-23 08-	8-May-24	11-Jun-24	280	4.00																
ection 17 - Sle	eeve pipes for District Cooling System (Subject to	247 25-	Apr-22 A 25-F	sb-23 14-	4-Feb-23 1	11-Aug-23	136	3.00																
Sch_10 Sleeve p	ipes for DCS (Kai Tak River West)	0 25	-Feb-23 25-F	sb-23 14-	4-Feb-23	14-Feb-23	-9	3.00																
DCS-West Section	ion A (39m)	0 25	-Feb-23 25-F	ab-23 14-	4-Feb-23	14-Feb-23	-9	3.00																
10-8478	DCS(W)_A - Reinstatement (Pavement / fending / etc.)	0 25	-Feb-23 25-F	sb-23 14-	4-Feb-23	14-Feb-23	-9	3.00																
Sch_10 Sleeve p	ipes for DCS (Kai Tak River East)	36 25-	Apr-22 A 25-F	sb-23 11-	1-Aug-23 1	11-Aug-23	136	0.00																
DCS-East Portio	n 1 (approx 37.5m)	36 25-	Apr-22 A 25-F	sb-23 11-	1-Aug-23 1	11-Aug-23	136	0.00																
10-8524A	DCS(E) - Baddfilling works in DCS area (up to G.L.)	36 25-	Apr-22 A 25-F	ib-23 11-	1-Aug-23 1	11-Aug-23	136			-														
	n 2 (approx 37.5m)	28 257	Apr-22 A 25-F	sb-23 11-	1-Aug-23 1	11-Aug-23	136	0.00																
DCS-East Portio																								
DCS-East Portion	DCS(E) - Baddfiling works in DCS area (up to G.L.)	28 25-	Apr-22 A 25-F	ab-23 11-	1-Aug-23 1	11-Aug-23	136																	_
	DCS(E) - Baddilling works in DCS area (up to G.L.)	28 25-	Apr-22 A 25-F	11-	1.4ug-23 1	11-Aug-23	136																	
	DCS(E) - Baddilling works in DCS area (up to GL.)	28 25-	25-F	ab-23 11-	1.4ug-23 1	11-Aug-23	136																	_
	DCS(E) - Baddlling works in DCS area (up to GL.)	28 25-	25-F	11-	1	1140973	136																	

Appendix C Project Organization Chart



Appendix D Dust Event-Action Plan (EAP) (Air Quality Monitoring)

EVENT	ACTION			
	ЕТ	IEC	ER	CONTRACTOR
ACTION LE	VEL			
Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 1.Rectify any unacceptable practice; 2.Amend working methods if appropriate.
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
LIMIT LEVE	EL			
Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days

EVENT	ACTION			
	ЕТ	IEC	ER	CONTRACTOR
	 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. 	Contractor on possible remedial measures; 4.Advise the ER on the effectiveness of the proposed remedial measures; 5.Supervise implementation of remedial measures.	properly implemented.	of notification; Implement the agreed proposals; 4.Amend proposal if appropriate.
Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; 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. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Note:

ET – Environmental Team

ER – Engineer's Representative

Appendix E Noise Event-Action Plan (EAP) (Noise Monitoring)

EVENT		ACTION		
	ЕТ	IEC	ER	CONTRACTOR
Action	1. Identify source, investigate the	1.Review the analysed results submitted	1.Confirm receipt of	1.Submit noise mitigation
Level	causes of exceedance and propose	by the ET;	notification of failure in	proposals to IEC;
	remedial measures;	2.Review the proposed remedial	writing;	2.Implement noise mitigation
	2. Notify IEC and Contractor;	measures by the Contractor and advise the ER accordingly;	2. Notify Contractor;	proposals.
	3.Report the results of investigation to the IEC, ER and Contractor;	3. Supervise the implementation of	3.Require Contractor to propose remedial measures for the	
	 Discuss with the Contractor and 	remedial measures.	analysed noise problem;	
	formulate remedial measures;		4. Ensure remedial measures are	
	5. Increase monitoring frequency to		properly implemented	
	check mitigation effectiveness.			

Note:

ET – Environmental Team

IEC – Independent Environmental Checker

ER – Engineer's Representative

Appendix F Environmental Mitigation Implementation Schedule (EMIS)

Environm	Environmental Mitigation Implementation Schedule – Contract No.: HY/2018/02 (Kai Tak East)									
EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status		
			Constructi	on Dust Impact						
S4.3.10	D1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation and Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation.	Minimize dust impact and adverse health effects at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	 APCO To control the dust impact to meet HKAQO and TM-EIA criteria 	Implemented		
S4.3.10	D2	• Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/m ² to achieve the dust removal efficiency.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	 APCO To control the dust impact to meet HKAQO and TM-EIA criteria 	Implemented		
xS4.3.10	D3	 Proper watering at exposed spoil should be undertaken throughout the construction phase; Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones; 	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	 APCO To control the dust impact to meet HKAQO and TM-EIA criteria 	Implemented after observation		

Environmental Mitigation Implementation Schedule - Contract No.: HY/2018/02 (Kai Tak East)

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle. Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing facilities and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; Any skip hoist for material transport should be totally enclosed by impervious sheeting; 						

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 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; Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies. 						
S4.3.10	D6	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected rep. dust monitoring station	Construction stage	• TM-EIA	Implemented
			Construction	n Noise (Airborne)				
\$5.4.1	N1	 Implement the following good site practices: Only well-maintained plant should be operated onsite, and plant should be serviced regularly during the construction programme; Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; 	Control construction airborne noise	Contractor	All construction sites	Construction stage	• Annex 5, TM- EIAO	Implemented after reminder

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; Mobile plant should be sited as far away from NSRs as possible and practicable; Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities. 						
\$5.4.1	N2	Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening	Contractor	All construction sites	Construction stage	• Annex 5, TM- EIAO	Implemented
\$5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy plants including air compressors, generators and handheld breakers, etc.	Sreen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM- EIAO	Implemented
\$5.4.1	N4	Use 'Quiet plant'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM- EIAO	Implemented
S5.4.1	N5	Loading/ unloading activities should be carried out inside the full enclosure of mucking out points.	Reduce the noise levels of loading/ unloading activities	Contractor	Mucking out locations	Construction stage	• Annex 5, TM- EIAO	Implemented
\$5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM- EIAO	Implemented

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S5.4.1	N7	In the second	reduce the construction airborne noise Monitor the	Contractor	Calasta dana	Construction data	• TM-EIAO	Inclusion
53.4.1	IN /	Implement a noise monitoring programme under EM&A programme.	construction noise levels at the selected representative locations	Contractor	Selected rep. noise monitoring station	Construction stage	• IM-EIAO	Implemented
			Water Quality	(Construction Phas	se)			
S6.9.1.1		 In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), construction phase mitigation measures shall include the following: <u>Construction Runoff</u> At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sandbag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction; The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/ sediment trap. The sediment/ silt traps should be 	To minimize water quality impact from the construction site runoff and general construction activities	Contractor	All construction sites where practicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN 1/94 TM-EIAO TM-DSS 	Implemented

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 incorporated in the permanent drainage channels 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, which states that the retention time for silt/ sand traps should be 5 minutes under maximum flow conditions. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1 m3/s a sedimentation basin of 30 m3 would be required and for a flow rate of 0.5 m3/s the basin would be 150 m3. The detailed design of the sand/ silt traps shall be undertaken by the contractor prior to the commencement of construction; All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. Exposed slope surfaces should be covered by tarpaulin or other means; The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows; All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas; 						

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 Measures should be taken to minimize the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system; Manholes should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers; Precautions be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized 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; 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 site wheel washing facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of 						

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 the process. The section of access road leading to, and exiting from, the wheel wash 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; Oil interceptors should be provided in the drainage system downstream of any oil/ fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain; Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts; All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby; Adopt best management practices; All earth works should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable. 						
S6.9.1.2	W2	 <u>Tunneling Works and Underground Works</u> Cut-&-cover tunneling work should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable. Uncontaminated discharge should pass through sedimentation tanks prior to off-site discharge; 	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	 Water Pollution Control Ordinance ProPECC PN 1/94 TM-DSS TM-EIAO 	N/A

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 The wastewater with a high concentration of SS should be treated (e.g. by sedimentation tanks with sufficient retention time) before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater; Direct discharge of the bentonite slurry (as a result of D-wall) is not allowed. It should be reconditioned and reused wherever practicable. Temporary storage locations (typically a properly closed warehouse) should be provided on site for any unused bentonite that needs to be transported away after all the related construction activities area completed. The requirements in ProPECC PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 						
S6.9.1.3	W3	 Sewage Effluent Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance. 	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	 Water Pollution Control Ordinance TM-DSS 	Implemented
\$6.9.1.5	W4	 Groundwater from Potential Contaminated Area: No direct discharge of groundwater from contaminated areas should be adopted. A discharge license under the WPCO through the Regional Office of EPD for groundwater discharge should be applied. Prior to the excavation works within these potentially contaminated areas, the groundwater quality should be reviewed during the process of discharge license application. The 	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	 Water Pollution Control Ordinance TM-DSS TM-EIAO 	Implemented

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 compliance to the Technical Memorandum on Standards for Effluents Discharged into Drainage on Sewerage Systems, Inland and Coastal Waters (TM-DSS) and the existence of prohibited substance should be confirmed. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, the contaminated groundwater should be either properly treated in compliance with the requirements of the TM-DSS or properly recharged into the ground. If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. TPH) to undetectable range. All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be discharged into the foul sewers. If groundwater recharging wells are deployed, recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater at the recharge well. Prior to recharge, 						

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor.						
\$6.9.1.6	W6	 <u>Accidental Spillage</u> In order to prevent accidental spillage of chemicals, the following is recommended: All the tanks, containers, storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and stormwater drains; The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings. Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation. 	To minimize water quality impact from accidental spillage	Contractor	All construction site where practicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN 1/94 TM-EIAO TM-DSS 	Implemented
			Waste Managem	ent (Construction Wa	ste)			
S7.4.1	WM1	 On-site sorting of C&D material Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites as far as practicable and stored at designated stockpile area preventing them from delivering to crushing facilities. The crushing plant operator should also be reminded to set up measures to prevent unsuitable rock from ending up at concrete batching plants and 	Separation of unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	N/A

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
\$7.5.1	WM2	be turned into concrete for structural use. Details regarding control measures at source site and crushing facilities should be submitted by the Contractor for the Engineer to review and agree. In addition, site records should also be kept for the types of rock materials excavated and the traceability of delivery will be ensured with the implementation of Trip Ticket System and enforced by site supervisory staff as stipulated under DEVB TC(W) No. 6/2010 for tracking of the correct delivery to the rock crushing facilities for processing into aggregates. Alternative disposal option for the reuse of volcanic rock and Aplite Dyke rock, etc. should be explored. <u>Construction and Demolition Material</u>	Good site	Contractor	All	Construction stage	• Land	Implemented
		 Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. 	practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal		construction sites	Construction stage	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	Impendence

EIA Ref	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S7.5.1	WM3	 <u>C&D Waste</u> Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage; The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. 	address Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	Implemented
S7.5.1	WM4	 <u>Excavated Contaminated Soils</u> Details of the mitigation measures on handling of the contaminated soil shall be referred to Section on Land Contamination below. 	The contaminated soil will be excavated for on-site reuse	Contractor	PBH4	Prior to commencement of construction works within the contaminated area	 Practice Guide (PG) for Investigation and Remediation of Contaminated Land GN/GM for land contamination 	Implemented

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
\$7.5.1	WM5	 Land-based Sediment All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location; All vessels shall be sized such that adequate draft is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; Before moving the vessels which are used for transporting dredged material, excess material shall be cleaned from the decks and exposed fittings of vessels and the excess materials shall never be dumped into the sea except at the approved locations; Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action. The Contractors shall monitor all vessels transporting material to ensure that no dumping outside the approved location takes place. The Contractor shall keep and produce logs and other records to demonstrate compliance and that journeys are consistent with designated locations and copies of such records shall be submitted to the engineers; The Contractors shall comply with the conditions in the dumping license. All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material; The material shall be placed into the disposal pit by bottom dumping; 	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	Implemented

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 Contaminated marine mud shall be transported by spit barge of not less than 750m3 capacity and capable of rapid opening and discharge at the disposal site; Discharge shall be undertaken rapidly, and the hoppers shall be closed immediately. Material adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site. For Type 3 special disposal treatment, sealing of contaminant with geosynthetic containment before dropping designated mud pit would be a possible arrangement. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, 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 at the disposal site, thereby fulfilling the requirements for fully confined mud disposal. 						
S7.5.1	WM6	 Chemical Waste Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes; Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and 	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	 Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste 	Implemented after observation

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 Chinese in accordance with instructions prescribed in Schedule 2 of the regulation; The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest, have adequate ventilation, covered to prevent rainfall entering, and arranged so that incompatible materials are adequately separated; Disposal of chemical waste should be via a licensed waste collector, be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers, or be to a reuser of the waste, under approval from EPD. 						
\$7.5.1	WM7	 General Refuse General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes; A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. Aluminum cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible; 	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	Implemented

EIA Ref.	EM& A Log Ref.	 Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. 	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
			Land	Contamination				
S8.9 & Appendix 8.4	LC2	 Excavation of the Contaminated Soil Prior to commencement of the excavation works at the contamination zone, the zone should be clearly marked out on site and the surface levels recorded. Excavation of contaminated material should be undertaken using dedicated earth-moving plant. The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling. The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable. 	The contaminated soil will be excavated for on-site reuse	Contractor	PBH4	Prior to commencement of construction works within the contaminated area	 Practice Guide (PG) for Investigation and Remediation of Contaminated Land Guidance Notes for Contaminated Land Assessment and Remediation Guidance Manual for Use of Risk-Based 	N/A
S8.9 & Appendix 8.4	LC3	Following completion of the excavation to the specified depth, at least one sample from the base of the excavation and four samples evenly distributed along the boundary of the excavation shall be taken for a closure assessment testing. The acceptance criterion is shown below: Locations Testing requirement Acceptance Criteria PBH4 PCBs RBRGs (Public Park)					Remediation Goals (RBRGs) for Contaminated Land Management	N/A

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
Appendix 8.4	LC4	 If the results of analysis below the RBRGs (Public Park), no further excavation will be required. If the analysis indicates presence of contamination (i.e. noncompliance of the acceptance criteria), further excavation shall be carried out in 0.5m increment vertically and/or horizontally depending on the location(s) of the sample(s) which has exceeded the acceptance criteria. Further sampling shall also be conducted for compliance testing. The process of excavation, sampling and compliance testing should continue until all contaminated materials are removed and should be supervised by a Land Contamination Specialist. A Remediation Report (RR) to demonstrate adequate clean-up shall be prepared and submitted to EPD for endorsement prior to the commencement of any 						N/A
		construction/development works within the sites. No construction/development works shall be carried out prior to the endorsement of the RR by EPD.						
			Haz	zard to Life				
S9.18	H8	The driver and his assistant should be physically healthy, experienced and have good safe driving records. The driver should hold a proper driving licence for the approved transport truck. Dedicated training programme and regular road safety briefing sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	N/A
\$9.18	H9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	N/A

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
			Landso	cape & Visual				
S10.10.1 Table 10.11	LV3	 <u>Good Site Management</u> Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance. Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance. 	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV4	 <u>Screen Hoarding</u> Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context. 	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV5	 <u>Lighting Control during Construction</u> All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The Contractor shall consider other security measures, which shall minimize the visual impacts. 	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV6	 <u>Erosion Control</u> The potential for soil erosion shall be reduced by minimizing the extent of vegetation disturbance on site and by providing a protective cover over newly exposed soil. 	Minimize landscape impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV7	<u>Tree Protection & Preservation</u> • Carefully protected during construction. Tree protection measures will be detailed at the Tree Removal Application stage and plans submitted to the relevant Government Department for approval in due course in accordance with ETWB TC no. 3/2006.	Minimize landscape and visual impact	Contractor	Within Project site	Construction stage	 'Guidelines for Tree Risk Management and Assessment Arrangement on an Area 	Implemented

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1	LV8	Tree Transplantation	Minimize	Contractor	Within Project	Prior to Construction	 Basis and on a Tree Basis', Greening, Landscape and Tree Management (GLTM) Section, DEVB Latest recommended horticultural practices from GLTM Section, DEVB ETWB TCW 2/2026 	N/A
Table 10.11		• For trees unavoidably affected by the Project that have to be removed, where practical transplantation will be chosen as the top priority method of removal. If this is not possible or practical compensatory planting will be provided for trees unavoidably felled (See LV10). For trees unavoidably affected by the Project works that are transplanted, transplantation must be carried out in accordance with ETWB TCW 2/2004 and 3/2006.	landscape and visual impact		site and designated off- site locations	stage	3/2006 • Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB • ETWB TCW 2/2004	
S10.10.1 Table 10.11	LV9	<u>Compensatory Planting</u> • For trees unavoidably affected by the Project that have to be removed, where practical transportation will be chosen as the top priority method of removal but if this is not possible or practical compensatory planting will be provided for trees unavoidably	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction stage	 ETWB TCW 3/2006 Latest recommended horticultural practices from 	N/A

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EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 felled. All felled trees shall be compensated for by planting trees to the satisfaction of relevant Government projects. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006. Compensatory tree planting may be incorporated into public open spaces and along roadside amenity areas affected by the construction works and therefore be part of the bigger wider planting plans. Onsite compensation planting is preferred but if necessary, additional receptor sites outside the Works Area shall be agreed separately with Government during the Tree Felling Application process. 					Greening, Landscape and Tree Management (GLTM) Section, DEVB • ETWB TCW 2/2004	
S10.10.1 Table 10.11	LV10	 Screen Planting Tall screen/buffer trees, shrubs and climbers should be planted, in so far as is possible, to soften and screen proposed structures such as roads and central strip, vertical edges and buildings and to enhance streetscape greening effect where appropriate. Indiscriminate use of trees for screening must be avoided and the principle of 'right tree for the right place' must be followed. This detail will be provided at the Detailed Design stage. This measure may additionally form part of the compensatory planting and will improve and create a pleasant pedestrian environment. 	Minimize visual impact and also enhance landscape.	Contractor	Within Project Site	Construction Phase	 Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB ETWB TCW 2/2004 	N/A
S10.10.1 Table 10.11	LV12	 <u>Reinstatement</u> All works areas, excavated areas and disturbed areas for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the 	Minimize landscape impact	Contractor	Within Project Site	Construction Phase	• N/A	N/A

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EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		relevant Government departments. (Specific mitigation for disturbance to public open space is detailed separately under LV14)						
		C	ultural Heritage In	npact (Constructior	n Phase)			
S11.4.4	CH1	The contractor should be alerted during the construction on the possibility of locating archaeological remains and as a precautionary measure, AMO shall be informed immediately in case of discovery of antiquities or supposed antiquities in the subject sites.	To preserve any cultural heritage items which may be removed and damaged by the excavation	Contractor	During construction works for cut and cover tunnels	Construction stage	AMOs requirements	Implemented
			EN	A&A Project				
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	Control EM&A Performance	Highways Department	All construction sites	Construction stage	 EIAO Guidance Note No. 4/2010 TM-EIAO 	Implemented
\$13.2- 13.4	EM2	 An Environmental Team needs to be employed as per the EM&A Manual; Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures; An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	 EIAO Guidance Note No. 4/2010 TM-EIAO 	Implemented

Appendix G Monitoring Schedule of the Reporting Month

Contract No.: HY/2018/02 Central Kowloon Route Section of Kai Take East

Environmental Monitoring Schedule (March 2023)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	1	2	3	4 Impact Dust Monitoring (E-A1)
5	6	7	8	9	10 Impact Dust Monitoring (E-A1)	11
12	13	14	15	16 Impact Dust Monitoring (E-A1)	17	18
19	20	21	22 Impact Dust Monitoring (E-A1)	23	24	25
26	27	28 Impact Dust Monitoring (E-A1)	29	30	31	1

Appendix H Calibration Certificates (Air Monitoring)



Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Verification Test Date:	9-Oct-22	to	16-Oct-22
Next Verification Test Date:	17-Oct-23		
Unit-under-Test- Model No.	Sibata LD-5R		
Unit-under-Test Serial No.	882110		
Our Report Refrence No.	RPT-22-HVS-	0017	

Standard Equipment Information		
Verification Equipment Type	Tisch's TSP HVS	Tish HVS Calibrator
Standard Equipment Model No.	TE-5170X	TE-5025A
Equipment serial no.	MFC 1049	3465
Last Calibration Date	28-Sep-22	28-Jun-22
Next Calibration Date	28-Nov-22	29-Jun-23

Verification	Date		Time		K-Factor	Counts/ Minute (R)	Total Counts	TSP Sample	Dust Concentration (ug/m3), (C)
Test No.		Start-time	End-time	Elapsed Time (in min)	K-Factor (K=C/R)	x-axis	(TC)	ID No.	y axis
1	9/10/2022	6210.34	6213.34	180.00	0.00087	39.33	7080	R221670/1	34
2	9/10/2022	6213.34	6216.36	181.20	0.00103	63.67	11536	R221670/2	66
3	9/10/2022	6216.36	6221.78	325.20	0.00097	106.33	34580	R221670/3	103
4	16/10/2022	6249.91	6252.92	180.60	0.00103	52.33	9451.4	R221671/1	54
5	16/10/2022	6252.92	6255.92	180.00	0.00113	78.00	14040	R221671/2	88
6	16/10/2022	6255.92	6261.94	361.20	0.00118	70.00	25284	R221671/3	83
					0.00104				

1.0

K-Factor to be inputted in LD-5R (corrected 1 decimal point):

By Linear Regression of y on x:

slope, mh=	1.0425
intercept,ch=	0.1155
*Correlation Coefficient,R=	0.9595

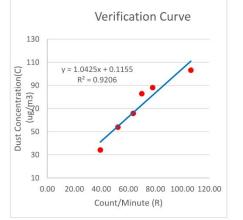
Verification Test Result: Strong Correlation, Results were accepted. * If the Correlation Coefficient, R is <0.5. Checking and Re-

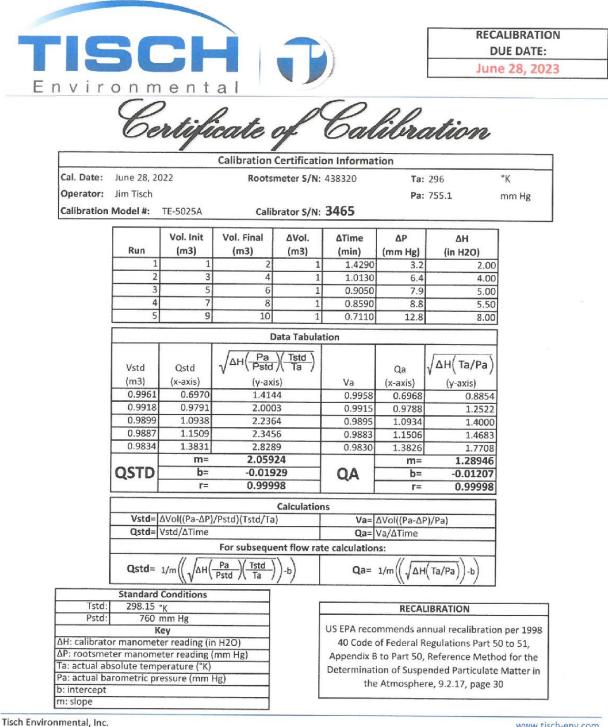
verification are required.

Verified By:

Date: 19-10-2022







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aurecon

		10 March 10	IBRATION te Information			
Location:	EMAX	Site ID:	EA-1	Date:	03-Mar-2023	
Serial No:	1049	Model:	TE-5170X	Operator:	Andy Li	5
Serial No.	1049	Widden.	1E-31/0X	Operator.	Andy Er	
		Am	bient Condition		1	
Actual Pressure du (mm Hg):	uring Calibration (P _a)	768.7	Actual Temper Calibration (T		291.8	
		Cal	ibration Orifice			
Model:		Т	E-5025A	Slope (m _c):	2.05924	
Serial No.:			3465	Intercept (b _c):	-0.01929	
Calibration Due D	ate:	2	8-Jun-23	Corr. Coeff:	0.99998	
		Ca	libration Data			
Plate or	$\Delta H_2 O$		a, X-Axis	I, CFM	IC, Y-Axis	
Test #	(in)	(m³/min)	(chart)	(corrected)	
1	1.5		0.614	30	30.49	
2	2.1		0.725	32	32.53	
3 4	2.5		0.790	33	33.54	
5	3.6		0.946	36	36.59	
m=	on Relationship (Qa on 18.3459	i x-axis, IC on v-axis b=	19.1971		Corr. Coeff= 0.99	94
Sample	r Set Point Flow Rate (S	SFR)= 1.0975	Calculations	Sampler Chart Set	Point (SSP)= 40)
$\begin{aligned} &Qa = 1/m_e * [Sqrt (\Delta I)] \\ &C = I * (Sqrt (P_a/P_{Std})) \\ &Qa = actual flow rat \\ &C = corrected chart \\ &I = actual chart resp \\ &m_e = calibrator slop \\ &m_e = calibrator inter \\ &\Gamma_a = actual temperat \end{aligned}$	$\begin{array}{l} H_2O^*(P_a/P_{S(d)})^*(T_{S(d}/T_a))\\ p^*(T_{S(d}/T_a))\\ e\\ response\\ onse\\ e\\ \end{array}$	- b _c] deg K)	$\begin{array}{l} m = \text{sampler slot} \\ b = \text{sampler int} \\ T_{\text{Std}} = 298 \ \text{deg I} \\ P_{\text{Std}} = 760 \ \text{mm I} \\ T_a = \text{actual temp} \\ P_a = \text{actual pres} \end{array}$	d / P_a) (T _a / T _{Std}) +b) (Sqrt (P _a / P _{Std})(T ppe ercept ζ Hg poerature during calibratic sure during calibratic	⁵ Sul / T _a)) ration (deg K)	
$\begin{aligned} &Qa = 1/m_e * [Sqrt (\Delta I)] \\ &C = I * (Sqrt (P_a/P_{Std})) \\ &Qa = actual flow rat \\ &C = corrected chart \\ &I = actual chart resp \\ &m_e = calibrator slop \\ &m_e = calibrator inter \\ &\Gamma_a = actual temperat \end{aligned}$	$H_2O^*(P_y/P_{Std})^*(T_{Std}/T_a))$ $)^*(T_{Std}/T_a))$ e response onse te cept ture during calibration (- b _c] deg K)	$SFR = 1.13 (P_{SI}$ $SSP = (m*SFR-$ $m = sampler int$ $T_{Sid} = 298 deg I$ $P_{Sid} = 760 mm I$ $T_a = actual temp$ $P_a = actual pres$ $Where 1.13 is the sample of the sampl$	d / P_a) (T _a / T _{Std}) +b) (Sqrt (P _a / P _{Std})(T ppe ercept ζ Hg poerature during calibratic sure during calibratic	T _{std} / T _a)) ration (deg K) on (mm Hg)	
Qa = $1/m_c*[Sqrt (\Delta I)$ C = $1*(Sqrt (P_a/P_{Std}))$ Qa = actual flow rat C = corrected chart = actual chart resp actual chart resp r_c = calibrator inter Γ_a = actual temperat	$H_2O^*(P_a/P_{Std})^*(T_{Std}/T_a))$ * $(T_{Std}/T_a))$ e response onse e cept rure during calibration (mm	- b _c] deg K)	$SFR = 1.13 (P_{SI}$ $SSP = (m*SFR-$ $m = sampler int$ $T_{Sid} = 298 deg I$ $P_{Sid} = 760 mm I$ $T_a = actual temp$ $P_a = actual pres$ $Where 1.13 is the sample of the sampl$	d / P_a) (T _a / T _{Std}) +b) (Sqrt (P _a / P _{Std})(T ppe ercept ζ Hg poerature during calibratic sure during calibratic	T _{std} / T _a)) ration (deg K) on (mm Hg)	
$Qa = 1/m_c * [Sqrt (\Delta I)C = I*(Sqrt (P_a/P_{Std})Qa = actual flow ratC = corrected chart= actual chart respn_c = calibrator slopc_ = calibrator interF_a = actual temperata_a = actual pressure$	H ₂ O*(P _# /P _{Std})*(T _{Std} /T _a)))*(T _{Std} /T _a)) e response onse recept ture during calibration (mm 42 37	- b _c] deg K)	$SFR = 1.13 (P_{SI}$ $SSP = (m*SFR-$ $m = sampler int$ $T_{Sid} = 298 deg I$ $P_{Sid} = 760 mm I$ $T_a = actual temp$ $P_a = actual pres$ $Where 1.13 is the sample of the sampl$	d / P_a) (T _a / T _{Std}) +b) (Sqrt (P _a / P _{Std})(T ppe ercept ζ Hg perature during calibratic sure during calibratic	T _{std} / T _a)) ration (deg K) on (mm Hg)	
$Qa = 1/m_c * [Sqrt (\Delta I)C = I*(Sqrt (P_a/P_{Std})Qa = actual flow ratC = corrected chart= actual chart respn_c = calibrator slopc_ = calibrator interF_a = actual temperata_a = actual pressure$	H ₂ O*(P _# /P _{Std})*(T _{Std} /T _a)))*(T _{Std} /T _a)) e response onse recept ture during calibration (mm 42 37 32	- b _c] deg K)	$SFR = 1.13 (P_{SI}$ $SSP = (m*SFR-$ $m = sampler int$ $T_{Sid} = 298 deg I$ $P_{Sid} = 760 mm I$ $T_a = actual temp$ $P_a = actual pres$ $Where 1.13 is the sample of the sampl$	d / P_a) (T _a / T _{Std}) +b) (Sqrt (P _a / P _{Std})(T ppe ercept ζ Hg perature during calibratic sure during calibratic	T _{std} / T _a)) ration (deg K) on (mm Hg)	
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Qa = $1/m_c^*$ [Sqrt (Δ] C = I^* (Sqrt (P_a/P_{Std}) Qa = actual flow rat C = corrected chart = actual chart resp n_c = calibrator slop c_c = calibrator inter Γ_a = actual temperat a_a = actual pressure	$\begin{array}{c c} H_2O^*(P_s/P_{Std})^*(T_{Std}/T_a)) \\ *(T_{Std}/T_a)) \\ e \\ response \\ onse \\ recept \\ ture during calibration (mm \\ \hline \\ 42 \\ 37 \\ 32 \\ 27 \\ 22 \\ \hline \end{array}$	- b _c] deg K)	$SFR = 1.13 (P_{SI}$ $SSP = (m*SFR-$ $m = sampler int$ $T_{Sid} = 298 deg I$ $P_{Sid} = 760 mm I$ $T_a = actual temp$ $P_a = actual pres$ $Where 1.13 is the sample of the sampl$	d / P_a) (T _a / T _{Std}) +b) (Sqrt (P _a / P _{Std})(T ppe ercept ζ Hg perature during calibratic sure during calibratic	T _{std} / T _a)) ration (deg K) on (mm Hg)	
$Qa = 1/m_e^*[Sqrt (\Delta I)]$ $IC = I^*(Sqrt (P_a/P_{Std}))$ $Qa = actual flow rat IC = corrected chart = actual chart resp m_e = calibrator slop 0_e = calibrator inter T_a = actual temperat P_a = actual pressure$	H ₂ O*(P _# /P _{Std})*(T _{Std} /T _a)))*(T _{Std} /T _a)) e response onse recept ture during calibration (mm 42 37 32 27 22 17	- b _c] deg K)	$SFR = 1.13 (P_{SI}$ $SSP = (m*SFR-$ $m = sampler int$ $T_{Sid} = 298 deg I$ $P_{Sid} = 760 mm I$ $T_a = actual temp$ $P_a = actual pres$ $Where 1.13 is the sample of the sampl$	d / P_a) (T _a / T _{Std}) +b) (Sqrt (P _a / P _{Std})(T ppe ercept ζ Hg perature during calibratic sure during calibratic	T _{std} / T _a)) ration (deg K) on (mm Hg)	
$\begin{aligned} Qa &= 1/m_c * [Sqrt (\Delta I) \\ IC &= I * (Sqrt (P_a/P_{Std}) \\ Qa &= actual flow rat \\ IC &= corrected chart \\ I &= actual chart resp \\ m_c &= calibrator slop \\ m_c &= calibrator inter \\ T_a &= actual temperat \end{aligned}$	$\begin{array}{c c} H_2O^*(P_y/P_{Std})^*(T_{Std}/T_a)) \\ \bullet \\ response \\ onse \\ ee \\ cept \\ ture during calibration (mm \\ \hline \\ 42 \\ 37 \\ 32 \\ 27 \\ 22 \\ 17 \\ 12 \\ \hline \end{array}$	deg K) Hg)	$SFR = 1.13 (P_{SI}$ $SSP = (m*SFR-$ $m = sampler slc$ $b = sampler int$ $T_{Sid} = 298 deg I$ $P_{Sid} = 760 mm I$ $T_a = actual temp$ $P_a = actual pres$ Where 1.13 is the second state that the second state of the second st	d / P _a) (T _a / T _{Std}) +b) (Sqrt (P _a / P _{Std})(T pe ercept C Hg berature during calibrati he designed sampling	ration (deg K) on (mm Hg) g flow rae of PM10 sampler	
$\begin{aligned} Qa &= 1/m_e^* [Sqrt (\Delta)]\\ IC &= I^* (Sqrt (P_a/P_{Std}))\\ Qa &= actual flow rat IC = corrected chart I = actual chart resp m_c = calibrator slop b_c = calibrator inter T_a = actual temperat P_a = actual pressure \end{aligned}$	$\begin{array}{c c} H_2O^*(P_y/P_{Std})^*(T_{Std}/T_a)) \\ \bullet \\ response \\ onse \\ ee \\ cept \\ ture during calibration (mm \\ \hline \\ 42 \\ 37 \\ 32 \\ 27 \\ 22 \\ 17 \\ 12 \\ \hline \end{array}$	- b _c] deg K)	$SFR = 1.13 (P_{SI}$ $SSP = (m*SFR-$ $m = sampler int$ $T_{Sid} = 298 deg I$ $P_{Sid} = 760 mm I$ $T_a = actual temp$ $P_a = actual pres$ $Where 1.13 is the sample of the sampl$	d / P _a) (T _a / T _{Std}) +b) (Sqrt (P _a / P _{Std})(T pe ercept C Hg berature during calibrati he designed sampling	T _{std} / T _a)) ration (deg K) on (mm Hg)	
$\begin{aligned} Qa &= 1/m_e^* [Sqrt (\Delta)]\\ IC &= I^* (Sqrt (P_a/P_{Std}))\\ Qa &= actual flow rat IC = corrected chart I = actual chart resp m_c = calibrator slop b_c = calibrator inter T_a = actual temperat P_a = actual pressure \end{aligned}$	$\begin{array}{c c} H_2O^*(P_y/P_{Std})^*(T_{Std}/T_a)) \\ \bullet \\ response \\ onse \\ ee \\ cept \\ ture during calibration (mm \\ \hline \\ 42 \\ 37 \\ 32 \\ 27 \\ 22 \\ 17 \\ 12 \\ \hline \end{array}$	b _c] deg K) (Hg) 0.200 0.400	$SFR = 1.13 (P_{SI}$ $SSP = (m*SFR-$ $m = sampler slc$ $b = sampler int$ $T_{Sid} = 298 deg I$ $P_{Sid} = 760 mm I$ $T_a = actual temp$ $P_a = actual pres$ Where 1.13 is the second state that the second state of the second st	d / P _a) (T _a / T _{Std}) +b) (Sqrt (P _a / P _{Std})(T pe ercept C Hg berature during calibrati he designed sampling	ration (deg K) on (mm Hg) g flow rae of PM10 sampler	

			DIATION	DATA SHEE	1 (151)
		Site 1	Information		
Location:	EMAX	Site ID:	EA-1	Date:	17-Mar-2023
Serial No:	1049	Model:	TE-5170X	Operator:	Andy Li
		Ambie	ent Condition		
Actual Pressure d mm Hg):	uring Calibration (P _a)	762.7	Actual Tempe Calibration (T	rature during	294.9
		Calibr	ation Orifice		
Model:			5025A	Slope (m _c):	2.05924
Serial No.:		34	465	Intercept (b _c):	-0.01929
Calibration Due D	ate:	28-J	un-23	Corr. Coeff:	0.99998
		C 11			
Plate cr	ΔH ₂ O		oration Data X-Axis	LCEM	IC, Y-Axis
Plate or Test #	(in)	• • •	A-AXIS /min)	I, CFM (chart)	(corrected)
1	1.6		528	31	31.52
2	2.1		718	33	33.23
3	2.5	_	783	34	34.24
4 5	2.9 3.3		842 898	35 36	35.35 36.25
$C = I^*(Sqrt (P_a/P_{St}))$ $Qa = actual flow ra C = corrected char = actual chart resp n_c = calibrator slop p_c = calibrator inte$	te t response ponse pe]	SSP = (m*SFR m = sampler sld b = sampler in T _{Std} = 298 deg P _{Std} = 760 mm T _a = actual tem	tercept K	n (deg K)
	e during calibration (mm Hg)			w rae of PM10 samplers, m ³ /mi
Actual Chart Response (IC)	42 37 32 27 22 17 12			****	
	0.000 0.20		0.600 dard Flow Rate (m3/min)	0.800 1.000	

Appendix I The Certification of Laboratory with HOKLAS Accredited Analytical Tests



Appendix J Location Plan of Air Quality Monitoring Station



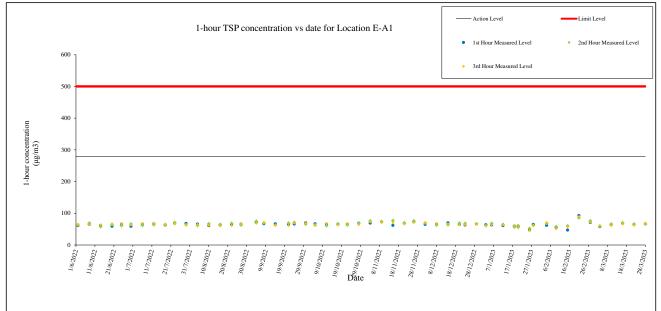
Acuity Sustainability Consulting Limited

Appendix K Monitoring Data (Air Monitoring)

Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	4, 10, 16, 22 and 28 March 2023
Parameter:	1-hour TSP
Other Factors:	Nearby traffic

			1-hour TSP (µ	ug/m ³)	
Date	Weather	Start Time	1 st hour (μg/m ³)	2 nd hour (µg/m³)	3 rd hour (μg/m ³)
04/03/2023	Fine	14:15	58	60	61
10/03/2023	Fine	12:30	64	66	61
16/03/2023	Fine	12:26	68	70	66
22/03/2023	Fine	12:33	65	66	62
28/03/2023	Fine	12:29	67	66	69

Figure 1: Graphical Illustration of Measured 1-hour TSP ($\mu g/m^3$) Levels at E-A1



Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	4, 10, 16, 22 and 28 March 2023
Parameter:	24-hour TSP
Other Factors:	Nearby traffic

										Date of	Calibration:	3-Mar-23		Slope =	18.3459
										Calibrati	on due date:	17-Mar-23		Intercept =	19.1971
										Date of	Calibration:	17-Mar-23		Slope =	17.4862
										Calibrati	on due date:	31-Mar-23		Intercept =	20.5892
Start Date	Weather		Elapse Time		С	hart Reading	5	Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter Weight (g)		Particulate weight	Conc.
	Condition	Initial	Final	Actual (min)	Min	Max	Max Avg	(°C)	(mm hPa)	(m ³ /min)	(m ³)	Initial Final	Final	(g)	$(\mu g/m^3)$
04/03/2023	Fine	6844.77	6868.77	1440.00	39	40	39.5	19.1	1024.7	1.15	1658	2.7742	2.9116	0.1374	83
10/03/2023	Fine	6868.77	6892.77	1440.00	38	39	38.5	22.3	1018.0	1.07	1541	2.7676	2.9253	0.1577	102
16/03/2023	Fine	6892.77	6916.77	1440.00	38	40	39.0	21.9	1017.6	1.10	1582	2.7716	2.9286	0.1570	99
22/03/2023	Fine	6916.77	6940.77	1440.00	39	39	39.0	24.9	1008.3	1.04	1499	2.6911	2.7656	0.0745	50
28/03/2023	Fine	6940.77	6964.77	1440.00	39	39	39.0	19.3	1016.5	1.08	1555	2.6813	2.7477	0.0664	43
														Min	43
														Max	102
														Average	75

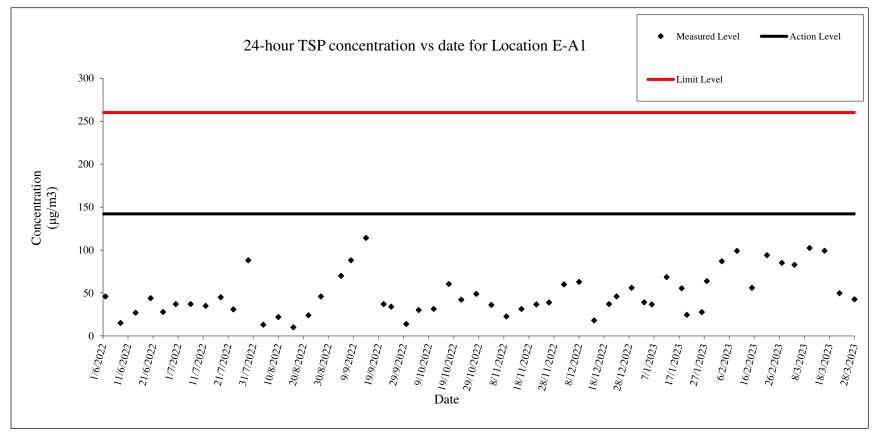
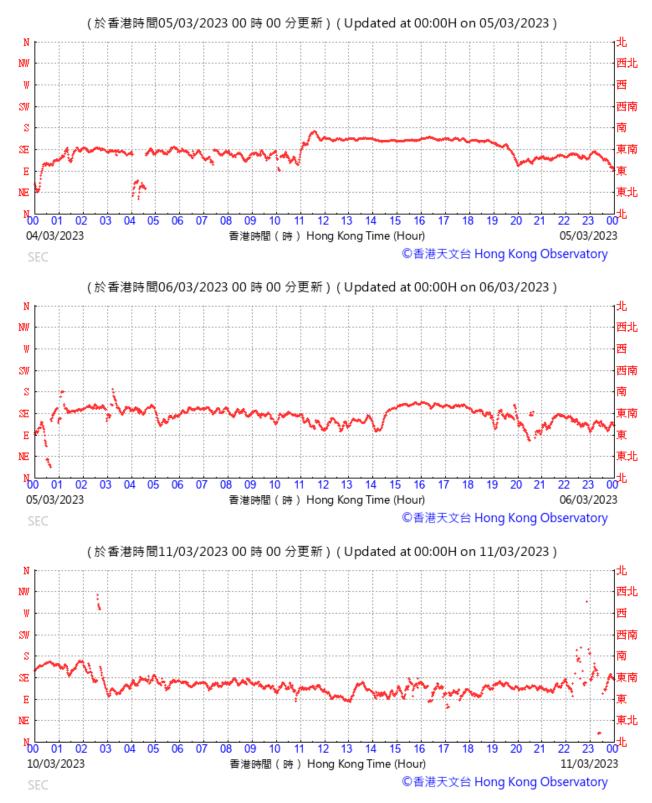
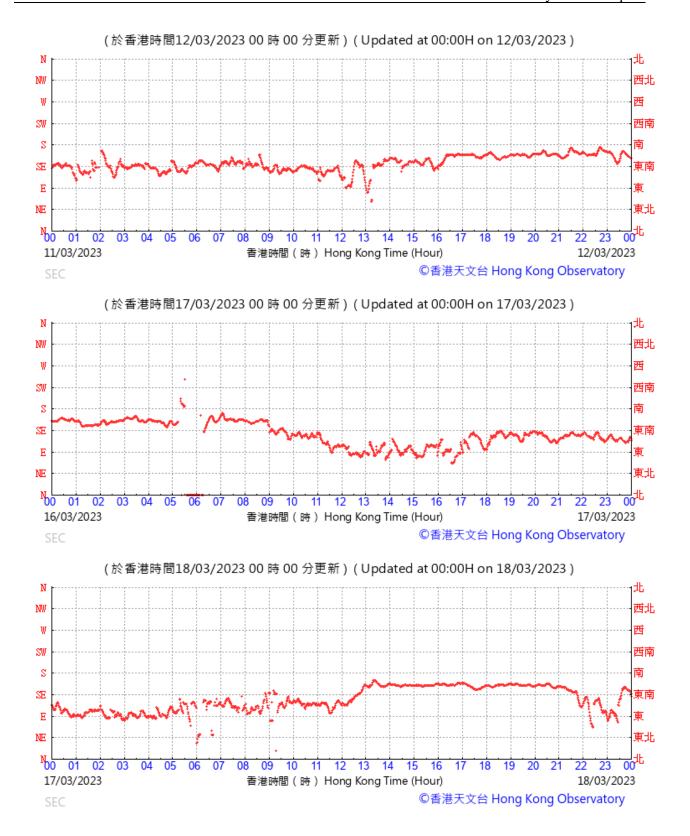
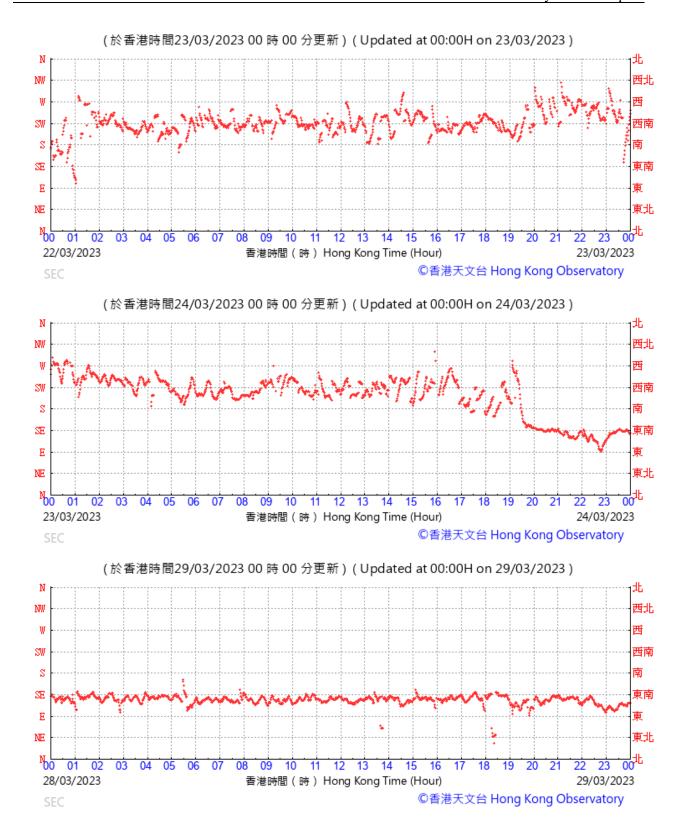


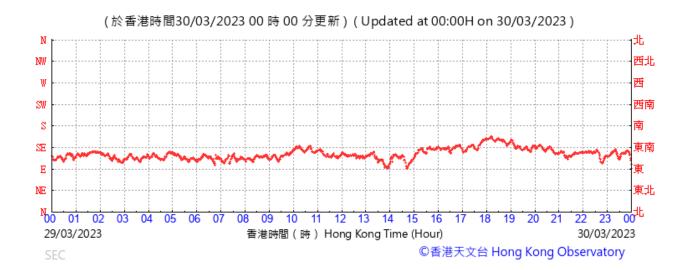
Figure 2: Graphical Illustration of Measured 24-hour TSP ($\mu g/m^3$) Levels at E-A1

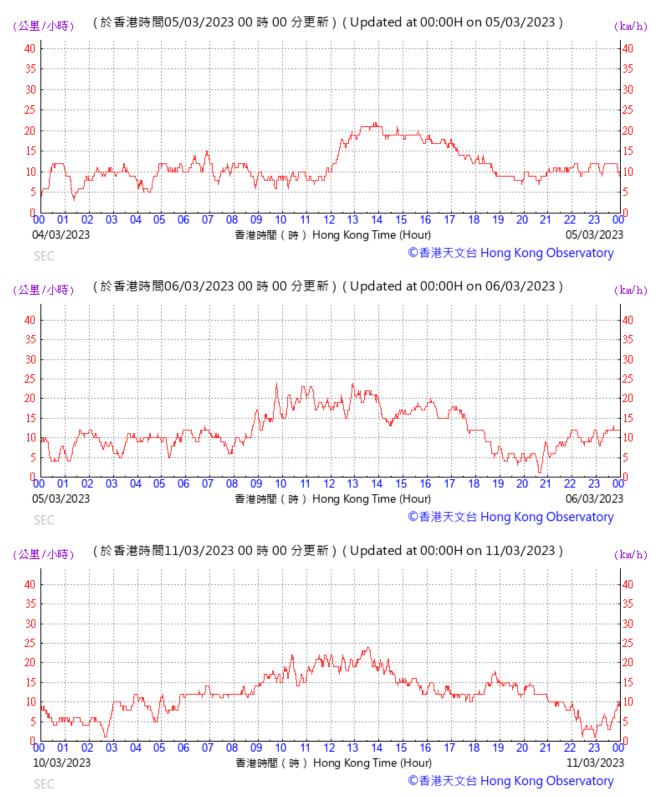


WIND DIRECTION DATA FOR 4, 5, 10, 11, 16, 17, 22, 23, 28 and 29 Mar 2023

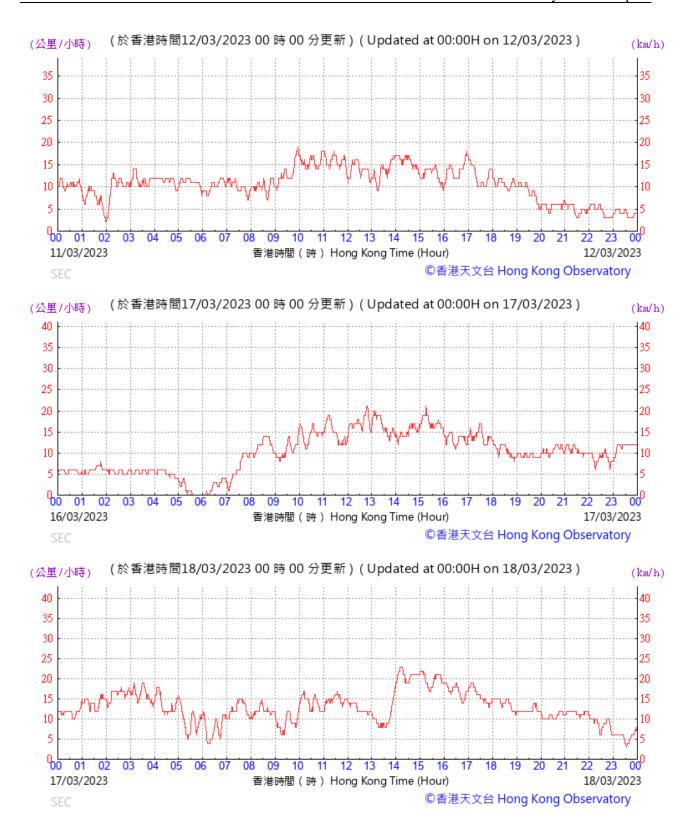


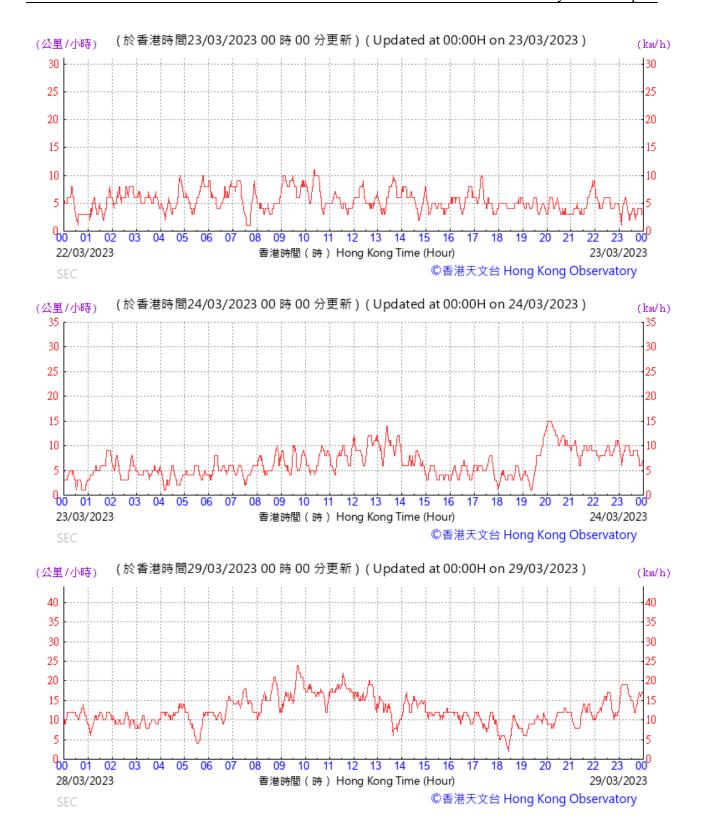






WIND SPEED DATA FOR 4, 5, 10, 11, 16, 17, 22, 23, 28 and 29 Mar 2023







Appendix L Waste Flow Table

Monthly Summary Waste Flow Table - Mar 2023

	Actual Quantities of Inert C&D Material Generated Monthly									Actual Quantities of C&D Waste Generated Monthly										
Month	Total Qty Generated	Hard Rock and Large Broken Concrete	Reused in the Contract		Reused in other Projects (SFK)		Reused in other Projects (TKO- LTT)	Reused in other Projects (KTW)	Reused in other Projects (SFK- DH)	Projects	Disposal at Sorting Facility	Disposed as Public Fill	Imported Fill	Metals (Steel)	Metals (Aluminum)	Metals (Copper)	Paper/cardboar d packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in 'kg)	(in 'kg)	(in 'kg)	(in 'kg)	(in 'kg)	(in 'kg)	(in 'kg)
2019	7.12	0.34	0.14	NIL	NIL	NIL	NIL	0.00	NIL	NIL	NIL	7.88	0.00	22,570.00	0.00	0.00	50.00	0.00	0.00	500,000.00
2020	142.34	0.00	0.14	NIL	4.40	19.47	NIL	10.50	NIL	NIL	0.62	104.95	1.11	207,420.00	48.00	0.00	1,284.00	0.00	0.00	419,060.00
2021	98.11	0.00	0.10	2.28	0.00	13.42	0.17	2.32	1.63	20.50	0.00	57.79	0.00	1028670.00	0.00	0.00	525.00	0.00	0.00	1100340.00
2022	13.34	0.00	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.99	0.00	141.03	0.00	0.00	715.00	0.00	80.00	1328300.00
Jan	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	20.00	0.00	0.00	109020.00
Feb	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	100.00	0.00	0.00	131770.00
Mar	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	100.00	0.00	0.00	134850.00
Total	261.31	0.34	1.73	2.28	4.40	32.89	0.17	12.83	1.63	20.50	0.62	184.00	1.11	1,258,801.03	48.00	0.00	2,794.00	0.00	80.00	3,723,340.00

Appendix M Statistics on Complaint, Notifications of Summons and Successful Prosecutions

Statistical Summary of Exceedances								
Air Quality								
Location	LocationAction LevelLimit LevelTotal							
E-A1	0	0	0					

Statistical Summary of Environmental Complaints

Depending Devied	Environmental Complaint Statistics					
Reporting Period	Frequency	Cumulative	Complaint Nature			
1 March 2023 - 31 March 2023	0	2	N/A			

Statistical Summary of Environmental Non-compliance

Donouting Douiod	Environmental Non-compliance Statistics						
Reporting Period	Frequency	Cumulative	Details				
1 March 2023 - 31 March 2023	0	0	N/A				

Statistical Summary of Environmental Summons

Departing Deried	Environmental Summons Statistics						
Reporting Period	Frequency	Cumulative	Details				
1 March 2023 - 31 March 2023	0	0	N/A				

Statistical Summary of Environmental Prosecution

Departing Devied	Environmental Prosecution Statistics						
Reporting Period	Frequency	Cumulative	Details				
1 March 2023 -	0	0	N/A				
31 March 2023							

Appendix N Monitoring Schedule of the Coming Month

Contract No.: HY/2018/02 Central Kowloon Route Section of Kai Take East

Tentative Environmental Monitoring Schedule (April 2023)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1
2	3 Impact Dust Monitoring (E-A1)	4	5	6 Impact Dust Monitoring (E-A1)	7	8
9	10	11	12 Impact Dust Monitoring (E-A1)	13	14	15 Impact Dust Monitoring (E-A1)
16	17	18	19	20	21 Impact Dust Monitoring (E-A1)	22
23	24	25	26	27 Impact Dust Monitoring (E-A1)	28	29
30	1	2	3	4	5	6

Central Kowloon Route Buildings, Electrical and Mechanical Works Contract No. HY/2019/13 (Kai Tak East Area)

Gammon Construction Limited

Contract No. HY/2019/13 Central Kowloon Route – Buildings, Electrical and Mechanical Works

Monthly EM&A Report No. 30 (March 2023)

Version 1.0 Date of Report: 11 April 2023

Certified By

BC'.

(Environmental Team Leader:

Ms. Betty Choi)

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

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Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

Works Contract:	Buildings, Electrical and Mechanical Works (HY/2019/13)
-----------------	---

Reference Document/Plan

Document/Plan to be Certified/ Verified:	Monthly EM&A Report No.30
Date of Report:	6 April 2023 (Version 1.0)
Date received by IEC:	6 April 2023

Reference EP Condition

Environmental Permit Condition:

Submission of Monthly EM&A Report of the Project

3.4 Four hard copies and one electronic copy of monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of each reporting month throughout the entire construction period. The EM&A Reports shall include a summary of all non-compliance. The submissions shall be certified by the ET Leader and verified by the IEC as complying with the requirements as set out in the EM&A Manual before submission to the Director. Additional copies of the submission shall be provided to the Director upon request by the Director.

3.4

IEC Verification

I hereby verify that the above referenced document/plan complies with the above referenced condition of EP-457/2013/D.

Mandy 20.

Ms Mandy To Independent Environmental Checker Date:

7 April 2023

Our ref: 0436942_IEC Verification Cert_BEM_Monthly EM&A Rpt No.30_20230407.docx

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- Appendix D Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

EXECUTIVE SUMMARY

Introduction

- This is the 30th Monthly Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. HY/2019/13 "Central Kowloon Route – Buildings, Electrical and Mechanical Works". This report summarized the monitoring results and audit findings of the EM&A programme under the issued EP No. EP-457/2013/D, and in accordance with the EM&A programme in Kai Tak East Area during the reporting period from 1st March 2023 – 31st March 2023.
- 2. The major site activities undertaken in Kai Tak East Area in the reporting month included:
 - Excavation & sub-structure works.

Environmental Monitoring Works

- 3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor were conducted on 7, 14, 21, 28 March 2023, whereas joint site inspection with the representative of IEC was conducted on 14 March 2023. The implementation of the environmental mitigation measures, Event and Action Plans and environmental complaint handling procedures were also checked.
- 4. A summary of the non-compliance (exceedance) during the reporting month (March 2023) and the investigation results and/or follow-up actions is provided below:

Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP was recorded.
- No Action/Limit Level exceedance for 24-hour TSP was recorded.

Landscape and Visual Monitoring

• No non-conformity for landscape and visual was recorded.

Complaint Handling, Prosecution and Public Engagement

5. Summary of complaint/summons/prosecution in the reporting month is tabulated in **Table I**.

F 4	Eve	nt Details	Follow-up/ Remedial	Status/ Remarks		
Event	Number	Brief Description	Actions			
Complaints	0	_				
Received	0		_	-		
Notification of						
Summons and	0					
Prosecutions	0	-	-	-		
Received						

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

Reporting Changes

6. There were no reporting changes during the reporting month.

Future Key Issues

- 7. The key works or activities will be anticipated in the coming two months are as follows:
 - Excavation & sub-structure works.

1 INTRODUCTION

Background

- 1.1 Central Kowloon Route (CKR) is a 4.7km long dual 3-lane trunk road across Central Kowloon linking Yau Ma Tei Interchange in West Kowloon and the road network at Kai Tak Development and Kowloon Bay in East Kowloon. The underground tunnel section will be about 3.9km long. In particular, an underground tunnel of about 370m long in Kowloon Bay to the north of To Kwa Wan Typhoon Shelter will be constructed.
- 1.2 The Environmental Impact Assessment Report for Central Kowloon Route Design and Construction (Register No.: AEIAR-171/2013) was approved under the Environmental Impact Assessment Ordinance (EIAO) on 11 July 2013. An Environmental Permit (EP No.: EP-457/2013) was issued on 9 August 2013. Variations of Environmental Permit (VEP) was subsequently applied and an EP (EP No. EP-457/2013/C) was issued on 16 January 2017. The latest EP (EP No. EP-457/2013/D) was issued by Environmental Protection Department (EPD) on 15 June 2021.
- 1.3 The construction of the CKR had been divided into different sections. This Contract No. HY/2019/13 – Central Kowloon Route – Buildings, Electrical and Mechanical Works ("The Project") will include the architectural, civil and structural construction works of Yau Ma Tei Ventilation Building (YVB), Ho Man Tin Ventilation Building (HVB), Kai Tak Ventilation Building (KVB) and Central Kowloon Route Administration Building (ADB) for the CKR. The landscaping and electrical and mechanical (E&M) works within the building sites will be involved as well.
- 1.4 Cinotech Consultants Limited was assigned as the Environmental Team (ET) to undertake the EM&A works for the Project. The construction of this Contract was commenced on 12th December 2020.

Purpose of the Report

1.5 This is the 30th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme in Kai Tak East Area during the reporting period from 1st March 2023 – 31st March 2023. The Kai Tak East Area site layout plan for the Project is shown in Figure 1.1.

Project Organizations

- 1.6 Different Parties with different levels of involvement in the project organization include:
 - Project Proponent Highways Department (HyD)
 - Engineer Representative (ER) Arup Mott MacDonald Joint Venture (AMMJV)
 - Environmental Team (ET) Cinotech Consultants Limited (Cinotech)
 - Independent Environmental Checker (IEC) Environmental Resources Management Hong Kong Limited (ERM)
 - Contractor Gammon Construction Limited (GCL)

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

Party	Role	Contact Person	Phone No.
AMMJV	Engineer Representative	Mr. Dennis Yu	3695 0419
Cinotech	Environmental Team	Ms. Betty Choi	2151 2072
ERM	Independent Environmental Checker	Ms. Mandy To	2271 3113
GCL	Contractor	Mr. Harry Lam	9353 6141

Table 1.1 Key Project Contacts

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

Construction Activities undertaken during the Reporting Month

- 1.9 The construction programme is presented in **Appendix A**.
- 1.10 The major site activities undertaken in the reporting month included:
 - Excavation & sub-structure works.

Summary of EM&A Requirements

- 1.11 The EM&A programme requires air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
 - Environmental requirements and mitigation measures, as recommended in the EM&A Manual under the EP.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.

Statues of Environmental Licensing and Permitting

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

Table 1.2 Summary of Environmental Licensing and Permit Status

Permit / License No.	Valid P	Status										
Permit / License No.	From	То	Status									
Environmental Permit (EP)												
EP-457/2013/D	15 Jun 2021	N/A	Valid									
Notification of Construction Works under Air Pollution Control Ordinance (APG												
457346	19 Jun 2020	End of Project	Valid									
Billing Account for Construction Waste Disposal												
7037679	26 Jun 2020	N/A	Valid									
Registration of Chemical Waste Producer – Kai Tak												
5211-286-G2347-54	15 Jul 2020	N/A	Valid									
Wastewater Discharge Licence - Ka	ai Tak											
WT00037178-2020	18 Dec 2020	31 Dec 2025	Valid									
Construction Noise Permit - Kai Ta	ak Site (General Wor	ks [grouting, piling	g])									
GW-RE0968-22	30 Sep 2022	29 Mar 2023	Valid until 29 Mar 2023									
GW-RE0271-23	30 Mar 2023	31 Aug 2023	Valid									
Construction Noise Permit for Wo	ks at 2nd office											
GW-RE1014-22	3 Oct 2022	1 Apr 2023	Valid									
Wastewater Discharge Licence at H	Kai Tak Site office	·	•									
WT00041796-2022	20 Sep 2022	30 Sep 2027	Valid									

2 AIR QUALITY

Monitoring Requirements

2.1 As all of the air quality (1-hour TSP and 24-hour TSP) monitoring works in Kai Tak East Area are currently covered under the Contract No. HY/2018/02 (Central Kowloon Route - Kai Tak East), the corresponding monitoring parameters, equipment, methodology, results and established Action and Limit Levels could be referred to Section 3 of the EM&A report for Contract No. HY/2018/02 during this reporting month.

Observations

- 2.2 No Action/Limit Level exceedance was recorded for all 1-hour TSP and 24-hour TSP monitoring in the reporting month.
- 2.3 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summary of site audits is shown in **Table 6.1** of this report.

3 NOISE

Monitoring Requirements

3.1 As no Noise Sensitive Receiver (NSR) is located within 300m from the boundary of Kai Tak East Area, no construction noise monitoring is required in Kai Tak East Area for this Project.

Observations

3.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of construction noise mitigation measures within the site boundaries of this Project. The summary of site audits is shown in **Table 6.1** of this report.

4 WASTE MANAGEMENT

Monitoring Requirements

4.1 Waste generated from this Project includes inert construction and demolition (C&D) materials and non-inert C&D materials. Inert C&D waste includes soil, broken rock, broken concrete and building debris, while non-inert C&D materials are made up of C&D waste which cannot be reused or recycled and has to be disposed of at the designated landfill sites.

Results and Observations

4.2 The quantities of different types of waste generated in the reporting month are summarised in **Table 4.1**. Details of the amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix B**.

Table 4.1 Quantities of Waste Generated from the Project

	Quantity														
	Inert C&I	O Materials		Non-inert C&D Materials											
Reporting	Total	Disposed as	Others, e.g.	Metals	Paper/cardboard	Plastics	Chemical								
Period	Quantity	Public Fill	general	(in	Packaging	(in	waste (in								
	Generated	(in '000m ³)	refuse (in	'000kg)	(in '000kg)	'000kg)	'000kg)								
	(in '000m ³)		$'000m^{3})$												
Mar 2023	12.409	12.409	0.135	0	0	0	0								

4.3 Site audits were carried out on a weekly basis to monitor and audit to ensure that proper storage, transportation, and disposal practices of waste materials generated during construction activities, such as construction and demolition (C&D) materials and general refuse are being implemented. The summary of site audits is shown in **Table 6.1** of this report. The implementation status of the waste/chemical management measures in the reporting period are summarized in **Appendix C**.

5 LANDSCAPE AND VISUAL

Monitoring Requirements

5.1 According to the EM&A Manual, site audits would be undertaken during the construction phase of the Project to check that the proposed landscape and visual mitigation measures are properly implemented and maintained as per their intended objectives. Site inspections of the implementation of landscape and visual mitigation measures would be undertaken at least once every two weeks during the construction period.

Results and Observations

- 5.2 Bi-weekly inspection of the implementation of landscape and visual mitigation measures within the site boundaries of this Project was conducted on 14 & 28 March 2023. The implementation status of the landscape and visual mitigation measures in the reporting period are summarized in **Appendix C**. The summary of observations and recommendations made for landscape and visual mitigation measures during site audits are shown in **Table 6.1** of this report.
- 5.3 No non-compliance of the landscape and visual impact was recorded in the reporting month.

6 ENVIRONMENTAL AUDIT

Site Audits

- 6.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 6.2 Site audits were conducted on 7, 14, 21 & 28 March 2023 in the reporting month. Joint site inspection with the representative of IEC was conducted on 14 March 2023. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

- 6.3 According to Environmental Permit, the approved EIA Report (Register No.: AEIAR-171/2013), and the EM&A Manual of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix C**.
- 6.4 The ET weekly site inspections were carried out during the reporting month and the observations and follow-up actions in Kai Tak East Area are summarized in **Table 6.1**.

Parameters	Date	Observations	Follow-up Actions			
Water Quality	7 Mar 2023	Ponding water has been found.	Ponding water has been removed.			
Air Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A			
Noise	N/A	No environmental deficiency was identified in the reporting period.	N/A			
Waste / Chemical Management	14 & 28 Mar 2023	General refuse should be removed.	General refuse has been removed.			
Land Contamination	21 Mar 2023	Oil and grease are found	Oil and grease have been removed			
Landscape and Visual	- N/A was identified in the reportin		N/A			
Permits /Licences	N/A	No environmental deficiency was identified in the reporting period.	N/A			

 Table 6.1 Observations and Recommendations of Site Inspections

Implementation Status of Event and Action Plans

6.5 The Event and Action Plans for noise could be referred to **Appendix D** of the EM&A report in Contract No. HY/2018/02.

Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP was recorded.
- No Action/Limit Level exceedance for 24-hour TSP was recorded.

Landscape and Visual Monitoring

• No non-conformity for landscape and visual was recorded.

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

6.6 No environmental complaint and no warning, notifications of summons and successful prosecutions was received in the reporting month. The summary of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix D**.

Status of Required Submission under Environmental Permit

6.7 Status of required submission under EP-457/2013/D during the reporting period are summarized in **Table 6.2**.

Table 6.2 Status of Required Submission under Environmental Permit

EP Condition (EP-457/2013/D)	Submission	Submission Date
Condition 3.4	Monthly EM&A Report (February 2023)	16 March 2023

7 FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
 - Excavation & Sub-structure Works.
- 7.2 Key environmental issues in the coming two months include:
 - Stockpile accumulation on-site;
 - Water spraying for dust generating activities and on haul road;
 - Wastewater and runoff discharge from site;
 - Coverage of open manholes to avoid dirty runoff to drainage system;
 - Noise from operation of the equipment, especially for excavation works and machinery onsite;
 - Accumulation of general refuse and construction waste on-site;
 - Proper storage of construction materials on-site; and
 - Storage of chemicals/fuel and chemical waste/waste oil on-site.

8 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

8.1 This is the 30th Monthly EM&A Report which presents the EM&A works undertaken in Kai Tak East Area during the reporting month from 1st March 2023 – 31st March 2023 in accordance with the EM&A Manual and the requirements under the EP.

Air Quality Monitoring

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

Landscape and visual

8.3 No non-compliance was recorded in the reporting month.

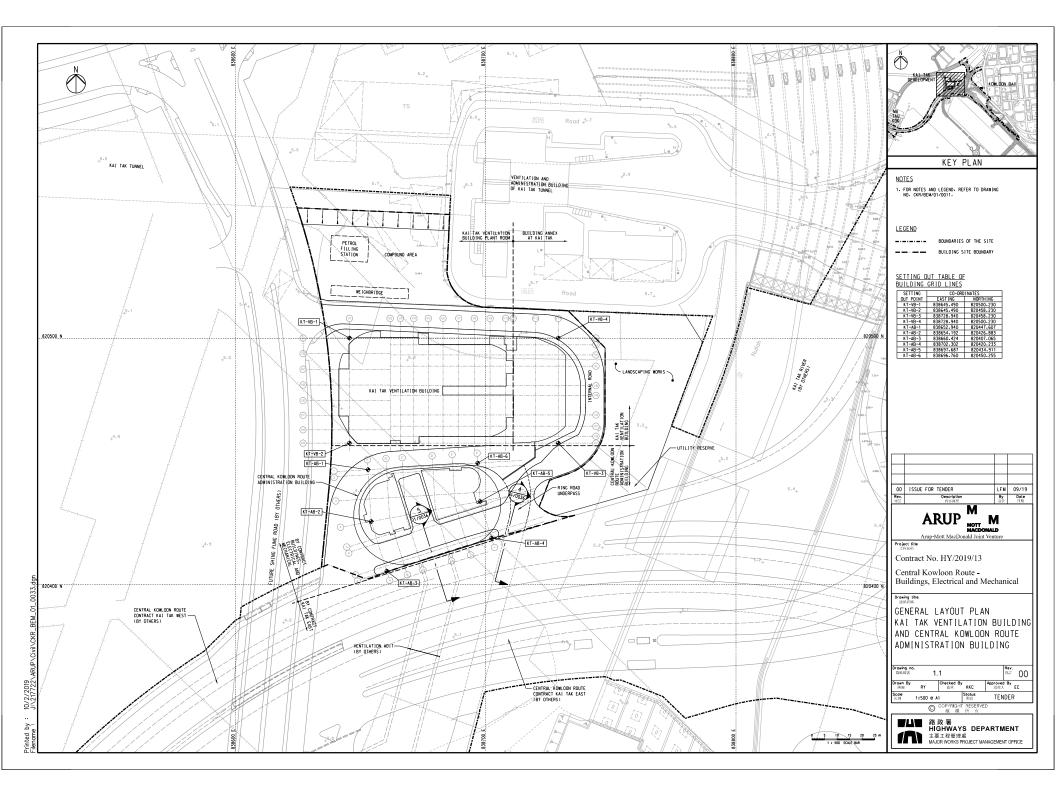
Site Audit

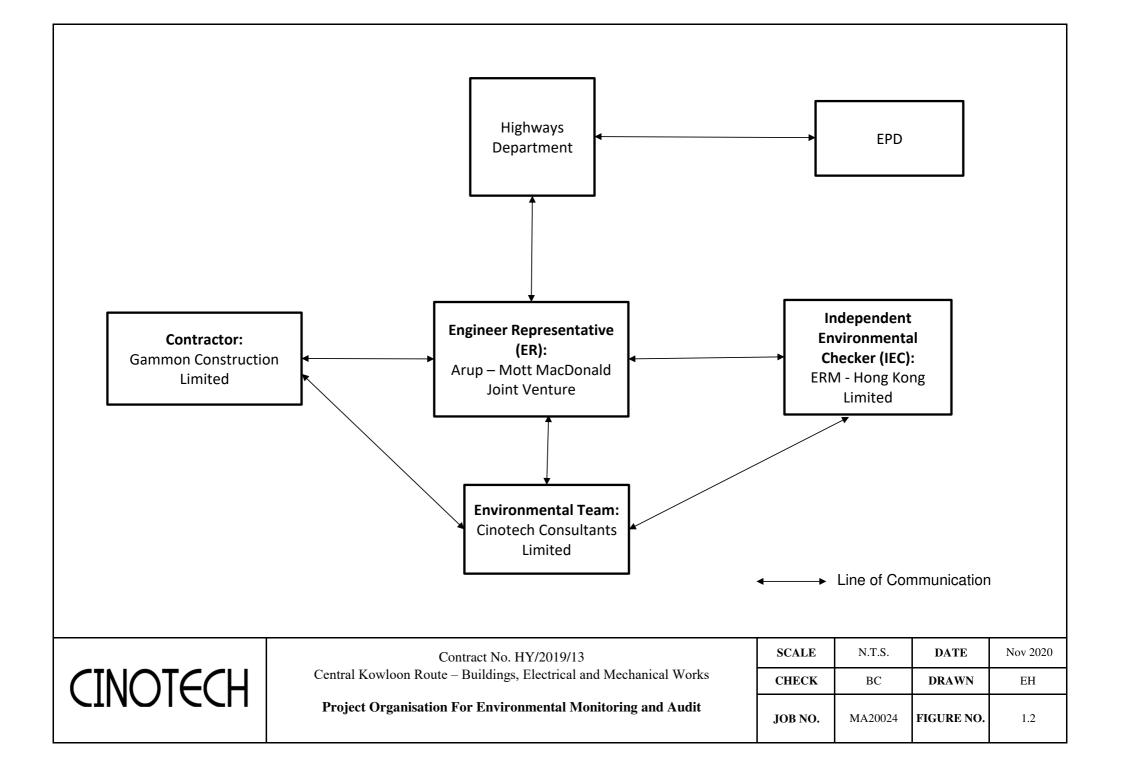
8.4 4 ET joint weekly environmental site inspections were conducted in the reporting month. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor were conducted on 7, 14, 21 & 28 March 2023, whereas joint site inspection with the representative of IEC was conducted on 14 March 2023. All environmental deficiencies observed during site inspections were rectified by the Contractor.

Complaint, Notification of Summons and Successful Prosecution

8.5 No environmental complaint and no notifications of summons and successful prosecutions were received in the reporting month.

FIGURES

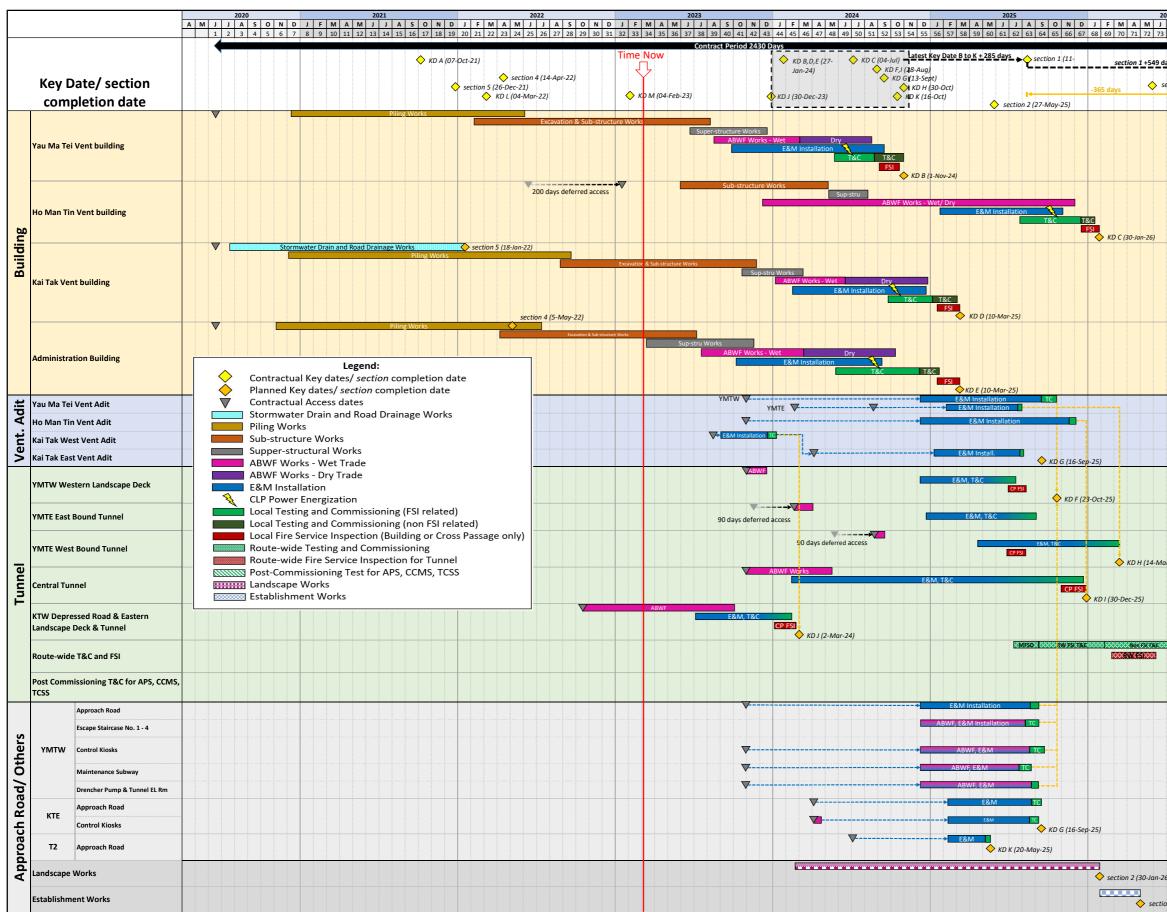




APPENDIX A CONSTRUCTION PROGRAMME



Contract No. HY/2019/13 Central Kowloon Route – Buildings, Electrical and Mechanical Works Summary Programme





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APPENDIX B SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

Monthly Summary Waste Flow Table

[PS Clauses 25.24(11)S & 25.34(16)(a)]

Annex 4 to Appendix C

Name of Department: HyD

Contract No.: HY/2019/13

Central Kowloon Route - Buildings, Electrical and Mechanical Works

Kai Tak Site Area

Monthly Summary Waste Flow Table for 2023 (year)
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		Actual Quanti	tes of Inert C&D	Materials Genera	ted Monthly	Actual Quantites of C&D Waste Generated Monthly						
	Total Quantity	Hard Rock and	Reused in the	Reused in	Disposed as	Imported Fill	Metals	Paper /	Plastics	Chemical	Marine	Others, e.g.
	Generated	Large Broken	Contract	other Projects	Public Fill	(see Note 5)		cardboard	(see Note 3)	Waste	Sediment	general refuse
		Concrete	(see Note 5)	(see Note 5)	(see Note 5)			packaging		(see Note 5)	(see Note 7)	(see Note 5)
		(see Note 5)										
Month	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)	(in '000m3)
Jan	1.576	0.000	0.000	0.000	1.576	0.000	0.000	0.000	0.000	0.000	0.000	0.087
Feb	10.209	0.000	0.000	0.000	10.209	0.000	0.000	0.000	0.000	0.000	0.000	0.066
Mar	12.409	0.000	0.000	0.000	12.409	0.000	0.000	0.000	0.000	0.000	0.000	0.135
Apr												
May												
Jun												
Sub-Total	24.194	0.000	0.000	0.000	24.194	0.000	0.000	0.000	0.000	0.000	0.000	0.289
Jul												
Aug												
Sep												
Oct												
Nov												
Dec												
Total (2023)	24.194	0.000	0.000	0.000	24.194	0.000	0.000	0.000	0.000	0.000	0.000	0.289
Total (whole)	93.132	0.000	0.782	2.615	89.735	0.000	0.000	0.000	0.000	1.080	0.000	1.086

Note:

(1) The performance targets are given in PS Clause 25.24

(2) The waste flow table shall also include C&D materails that are specified in the Contract to be imported for use at the Sites.

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials, and water barriers

(4)

The summary table shall be submitted to the Project Manager monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.24 (5) Density values and Bulk Factors adopted:

Hard Rock and Large Broken Concrete:	2.4 T/m3 (in-situ)	Bulk Factor:	1.25
Soil / Fill:	2.0 T/m3 (in-situ)	Bulk Factor:	1.1
Marine Sediment:	1.7 T/m3 (in-situ)	Bulk Factor:	1.3
General Refuse:	400 kg/m3		
Chemical Waste (mainly used lubricant):	900 kg/m3		
Tree Trunk / Tree Stump:	850 kg/m3 (in-situ)	Bulk Factor:	1.1

(6) The reported and forecast volume figures are in "bulk" volume, with Bulk Factor applied as per Note (5)

(7) This figure refers to marine sediment disposed via dumping at sea. Treated Sediment for Reuse on-site will be categorized into "Reused in the Contract"

APPENDIX C ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
-	n Dust Impact			~		~ .		
\$4.3.10	D1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	- APCO - To control the dust impact to meet HKAQO and TM-EIA criteria	۸
\$4.3.10	D2	Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/m2 to achieve the dust removal efficiency.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	- APCO - To control the dust impact to meet HKAQO and TM-EIA criteria	Α
S4.3.10	D3	Proper watering at exposed spoil should be undertaken throughout the construction phase.	Minimize dust impact at the	Contractor	All construction sites	Construction stage	- APCO - To control the dust	٨
		Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading.	nearby sensitive receivers				impact to meet HKAQO and TM-EIA criteria	٨
		Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads.						٨
		A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones.						٨
		The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle.						۸
		Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.						٨

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
		When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period.						۸
		The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials.						۸
		Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously.						٨
		Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet						۸
		Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding.						N/A
		Any skip hoist for material transport should be totally enclosed by impervious sheeting.						٨
		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						٨
		Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed.						N/A
		Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
		Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.						N/A
\$4.3.10	D6	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected rep. dust monitoring station	Construction stage	- TM-EIA	٨
Construction	n Noise (Airbor							
S5.4.1	N1	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.	Control construction airborne noise	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	۸
		Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.						۸
		Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.						٨
		Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.						٨
		Mobile plant should be sited as far away from NSRs as possible and practicable.						۸
		Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.						N/A
\$5.4.1	N2	Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
\$5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy plants including air compressors, generators and handheld breakers, etc.	Sreen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	N/A
\$5.4.1	N4	Use 'Quiet plants'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	۸
\$5.4.1	N5	Loading/ unloading activities should be carried out inside the full enclosure of mucking out points.	Reduce the noise levels of loading/ unloading activities	Contractor	Mucking out locations	Construction stage	- Annex 5, TM-EIAO	۸
\$5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	۸
S5.4.1	N7	Implement a noise monitoring programme under EM&A programme.	Monitor the construction noise levels at the selected representative locations		Selected rep. noise monitoring station	Construction stage	- TM-EIAO	N/A
Water Quali	ity (Construction	on Phase)	• •	•	•	-	•	
S6.9.1.1	W1	<u>Construction Runoff</u> At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.	To minimize water quality impact from the construction site runoff and general construction activities	Contractor	All construction sites where practicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN 1/94 TM-EIAO TM-DSS 	^

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
		The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/ sediment trap. The sediment/ silt traps should be incorporated in the permanent drainage channels to enhance deposition rates.						Λ
		The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/ sand traps should be 5 minutes under maximum flow conditions. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1 m3/s a sedimentation basin of 30 m3 would be required and for a flow rate of 0.5 m3/s the basin would be 150 m3. The detailed design of the sand/ silt traps shall be undertaken by the contractor prior to the commencement of construction.						Α
		All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. Exposed slope surfaces should be covered by tarpaulin or other means.						N/A
		The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows.						N/A
		All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas.						*
		Measures should be taken to minimize the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.						٨

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
		Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 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.						Λ
		Manholes should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.						۸
		Precautions be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized 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.						^
		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 site wheel washing facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel wash 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.						Λ
		Oil interceptors should be provided in the drainage system downstream of any oil/ fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain.						^
		Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.						۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
		All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby.						^
		Adopt best management practices.						۸
		All earth works should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable.						۸
\$6.9.1.2	W2	Tunneling Works and Underground Works Cut-&-cover tunneling work should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable.	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	- Water Pollution Control Ordinance - ProPECC PN 1/94 - TM-EIAO - TM-DSS	N/A
		Uncontaminated discharge should pass through sedimentation tanks prior to off- site discharge.					- IM-035	N/A
		The wastewater with a high concentration of SS should be treated (e.g. by sedimentation tanks with sufficient retention time) before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater.						N/A
		Direct discharge of the bentonite slurry (as a result of D-wall) is not allowed. It should be reconditioned and reused wherever practicable. Temporary storage locations (typically a properly closed warehouse) should be provided on site for any unused bentonite that needs to be transported away after all the related construction activities area completed. The requirements in ProPECC PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.						N/A
\$6.9.1.3	W3	Sewage Effluent Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	- Water Pollution Control Ordinance - TM-DSS	۸

EIA Ref. EM&A Ref. Reco	ommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
adopted. A discharge license under groundwater discharge sh these potentially contamin reviewed during the proce- the Technical Memorand Drainage on Sewerage Sy existence of prohibited su indicated that the ground- would be contaminated, t properly treated in compl properly recharged into th If wastewater treatment is suitable treatment process pollution level to an acce (e.g. TPH) to undetectabl plant shall meet the requi discharged into the foul s If groundwater recharging installed as appropriate fo the ground. The recharging groundwater quality will in the Section 2.3 of TM- determined prior to the sa plan (including the labora groundwater to be recharging groundwater to be recharging groundwater at the propo	oundwater from contaminated areas should be r the WPCO through the Regional Office of EPD for hould be applied. Prior to the excavation works within nated areas, the groundwater quality should be ess of discharge license application. The compliance to lum on Standards for Effluents Discharged into ystems, Inland and Coastal Waters (TM-DSS) and the abstance should be confirmed. If the review results water to be generated from the excavation works the contaminated groundwater should be either liance with the requirements of the TM-DSS or he ground. s deployed, the wastewater treatment unit shall deploy s (e.g. oil interceptor / activated carbon) to reduce the ptable standard and remove any prohibited substances le range. All treated effluent from wastewater treatment irements as stated in TM-DSS and should be	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	- Water Pollution Control Ordinance - TM-EIAO - TM-DSS	^ ^ ^

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
\$6.9.1.6	W6	Accidental Spillage All the tanks, containers, storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and stormwater drains.	To minimize water quality impact from accidental spillage	Contractor	All construction site where practicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN 1/94 TM-EIAO TM-DSS 	۸
		The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings.					- 11/1-1233	٨
		Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation.						۸
Waste Mana	ngement (Const	ruction Waste)						
\$7.4.1		On-site sorting of C&D material Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites as far as practicable and stored at designated stockpile area preventing them from delivering to crushing facilities. The crushing plant operator should also be reminded to set up measures to prevent unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use. Details regarding control measures at source site and crushing facilities should be submitted by the Contractor for the Engineer to review and agree. In addition, site records should also be kept for the types of rock materials excavated and the traceability of delivery will be ensured with the implementation of Trip Ticket System and enforced by site supervisory staff as stipulated under DEVB TC(W) No. 6/2010 for tracking of the correct delivery to the rock crushing facilities for processing into aggregates. Alternative disposal option for the reuse of volcanic rock and Aplite Dyke rock, etc. should be explored.	Separation of unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	~

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
\$7.5.1		Construction and Demolition Material Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement. Carry out on-site sorting.	Good site practice to minimize the waste generation and recycle the C&D materials as	Contractor	All construction sites	Construction stage	Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No.	^ ^
		Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate	so as to reduce the amount for final	19/2005	۸			
		Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible.	disposal					N/A
		Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified.	-					٨
		Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction.						۸
S7.5.1		<u>C&D Waste</u> Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage.	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	Λ
		The Contractor should recycle as much of the C&D materials as possible on- site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
S7.5.1	WM4	Excavated Contaminated Soils Details of the mitigation measures on handling of the contaminated soil shall be referred to Section on Land Contamination below.	The contaminated soil will be excavated for on- site reuse	Contractor	PBH4	Prior to commencemen t of construction works within the contaminated	 Practice Guide (PG) for Investigation and Remediation of Contaminated Land GN/GM for land contamination 	^
\$7.5.1	WM5	Land-based and Marine-based Sediment All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location.	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	۸
		All vessels shall be sized such that adequate draft is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.						N/A
		Before moving the vessels which are used for transporting dredged material, excess material shall be cleaned from the decks and exposed fittings of vessels and the excess materials shall never be dumped into the sea except at the approved locations.						N/A
		Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.						N/A
		The Contractors shall monitor all vessels transporting material to ensure that no dumping outside the approved location takes place. The Contractor shall keep and produce logs and other records to demonstrate compliance and that journeys are consistent with designated locations and copies of such records shall be submitted to the engineers.						N/A
		The Contractors shall comply with the conditions in the dumping licence.						٨
		All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material.						N/A
		The material shall be placed into the disposal pit by bottom dumping.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
		Contaminated marine mud shall be transported by spit barge of not less than 750m3 capacity and capable of rapid opening and discharge at the disposal site.						N/A
		Discharge shall be undertaken rapidly and the hoppers shall be closed immediately. Material adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site.						N/A
		For Type 3 special disposal treatment, sealing of contaminant with geosynthetic containment before dropping designated mud pit would be a possible arrangement. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, 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 at the disposal site, thereby fulfilling the requirements for fully confined mud disposal.						N/A
S7.5.1	WM6	Chemical waste that is produced, as defined by Schedule 1 of the Waste	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	Waste Disposal (Chemical Waste) (General) Regulation · Code of Practice on the Packaging, Labelling and Storage of Chemical	*
		Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.					Waste	A
		The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest, have adequate ventilation, covered to prevent rainfall entering, and arranged so that incompatible materials are adequately separated.						۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
		Disposal of chemical waste should be via a licensed waste collector, be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers, or be to a reuser of the waste, under approval from EPD.						^
\$7.5.1	WM7	<u>General Refuse</u> General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.	Minimize production of the general refuse and avoid odour pest	Contractor	All construction sites	Construction stage	 Waste Disposal Ordinance 	*
		A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.	e, separately from construction and chemical wastes, e odour, pest and litter impacts. Burning of refuse				٨	
		Aluminum cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible.						۸
		Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor.						۸
Land Contai	mination							
S8.9 & Appendix 8.4	LC2	Excavation of the Contaminated Soil Prior to commencement of the excavation works at the contamination zone, the zone should be clearly marked out on site and the surface levels recorded. Excavation of contaminated material should be undertaken using dedicated earth-moving plant.	The contaminated soil will be excavated for on- site reuse	Contractor	r PBH4	Prior to commencemen t of construction works within the contaminated area	Practice Guide (PG) for Investigation and Remediation of Contaminated Land Guidance Notes for Contaminated Land Assessment and Remediation Guidance Manual for Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management	N/A
		The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling.						N/A
		The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
Hazard to L			m 1 4 11		117 1		· · · · · ·	^
S9.18	Н8	The driver and his assistant should be physically healthy, experienced and have good safe driving records. The driver should hold a proper driving licence for the approved transport truck. Dedicated training programme and regular road safety briefing sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	,	Å
\$9.18	Н9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	/	۸
Landscape a	nd Visual			•				
S10.10.1 Table 10.11	LV3	<u>Good Site Management</u> Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	Minimize visual impact	Contractor	Within Project site	Construction Phase	/	۸
		Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.						۸
S10.10.1 Table 10.11	LV4	Screen Hoarding Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.	Minimize visual impact	Contractor	Within Project site	Construction Phase	/	۸
S10.10.1 Table 10.11	LV5	Lighting Control during Construction All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The Contractor shall consider other security measures, which shall minimize the visual impacts.	Minimize visual impact	Contractor	Within Project site	Construction Phase	/	۸
S10.10.1 Table 10.11	LV6	<u>Erosion Control</u> The potential for soil erosion shall be reduced by minimizing the extent of vegetation disturbance on site and by providing a protective cover over newly exposed soil.	Minimize landscape impact	Contractor	Within Project site	Construction Phase	/	۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV7	Tree Protection & Preservation Carefully protected during construction. Tree protection measures will be detailed at the Tree Removal Application stage and plans submitted to the relevant Government Department for approval in due course in accordance with ETWB TC no. 3/2006.		Contractor	Within Project site	Construction Phase	 'Guidelines for Tree Risk Management and Assessment Arrangement on an Area Basis', Greening, Landscape and Tree Management (GLTM) Section, DEVB Latest recommended horticultural practices from GLTM Section, 	N/A
\$10.10.1 Table 10.11	LV8	<u>Tree Transplantation</u> For trees unavoidably affected by the Project that have to be removed, where practical transplantation will be chosen as the top priority method of removal. If this is not possible or practical compensatory planting will be provided for trees unavoidably felled (See LV10). For trees unavoidably affected by the Project works that are transplanted, transplantation must be carried out in accordance with ETWB TCW 2/2004 and 3/2006.	*	Contractor	Within Project site and designated off- site locations	Prior to Construction Phase	ETWB TCW 3/2006 Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB ETWB TCW 2/2004	N/A
S10.10.1 Table 10.11	LV9	Compensatory Planting For trees unavoidably affected by the Project that have to be removed, where practical transportation will be chosen as the top priority method of removal but if this is not possible or practical compensatory planting will be provided for trees unavoidably felled. All felled trees shall be compensated for by planting trees to the satisfaction of relevant Government projects. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006.		Contractor	Within Project site	Construction Phase	ETWB TCW 3/2006 Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB ETWB TCW 2/2004	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV10	Screen Planting Tall screen/buffer trees, shrubs and climbers should be planted, in so far as is possible, to soften and screen proposed structures such as roads and central strip, vertical edges and buildings and to enhance streetscape greening effect where appropriate. Indiscriminate use of trees for screening must be avoided and the principle of 'right tree for the right place' must be followed. This detail will be provided at the Detailed Design stage. This measure may additionally form part of the compensatory planting and will improve and create a pleasant pedestrian environment.	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction Phase	 Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB ETWB TCW 2/2004 	N/A
\$10.10.1 Table 10.11	LV11	<u>Green Roof</u> Roof greening will be established on ventilation and administration buildings to reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to VSRs at high levels.	Minimize landscape and visual impact	Contractor	Within Project site	Construction Phase	/	N/A
S10.10.1 Table 10.11	LV12	<u>Reinstatement</u> All works areas, excavated areas and disturbed areas for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments. (Specific mitigation for disturbance to public open space is detailed separately under LV14)	Minimize landscape impact	Contractor	Within Project site	Construction Phase	/	N/A
S10.10.1 Table 10.11	LV13	Reprovising of Public Open Space All areas of public open space affected by the Project will be reprovisioned either at the same location following the completion of temporary works, or at a separate site, as agreed with relevant Government departments. Open space should be re-provisioned in an enhanced manner.	Minimize landscape impact	Contractor	Within Project site	Construction Phase	Open space should be re- provided in an enhanced manner.	N/A
Cultural Her	ritage Impact (Construction Phase)	1	I		I		
S11.4.4	CH1	The contractor should be alerted during the construction on the possibility of locating archaeological remains and as a precautionary measure, AMO shall be informed immediately in case of discovery of antiquities or supposed antiquities in the subject sites.	Ũ	Contractor	During construction works for cut and cover tunnels	During the Construction Phase	AMOs requirements	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
EM&A Proj	ect							
S13.2	EM1	1 1 1 1	Control EM&A Performance	Highways Department	All construction sites	Construction stage	 EIAO Guidance Note No. 4/2010 TM-EIAO 	۸
\$13.2-13.4	EM2		Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	 EIAO Guidance Note No. 4/2010 TM-EIAO 	٨
		Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures;						۸
		An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.						٨

Remarks: E	Remarks: EM&A Programme under EP-457/2013/D					
^	Compliance of mitigation measure;					
N/A N/A(1)	Not applicable at this stage; Not observed;					
*	Recommendation was made during site audit but improved/retified by the contractor;					
#	Recommendation was made during site audit but not yet improved/retified by the contractor;					
Х	Non-compliance of mitigation measure;					
•	Non-compliance but rectified by the contractor.					

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

Contract No. HY/2019/13 Central Kowloon Route – Buildings, Electrical and Mechanical Works

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

Reporting Month: March 2023

Log Ref.	Location	Received Date	Details of Complaint/ warning/ summon and prosecution	Investigation/ Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint and warning/summon and prosecution was received in the reporting period.