

JOB NO.: TCS00975/18

CEDD CONTRACT AGREEMENT NO. EDO/04/2018 -ENVIRONMENTAL TEAM FOR CROSS BAY LINK, TSEUNG KWAN O

MONTHLY ENVIRONMENTAL MONITORING & AUDITING REPORT OF THE PROJECT – MARCH 2023

PREPARED FOR CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT (CEDD)

Date	Reference No.	Prepared By	Certified By
18 April 2023	TCS00975/18/600/R0747v2	Http	Am

Martin Li (Environmental Consultant)

Tam Tak Wing (Environmental Team Leader)

Version	Date	Remarks
1	13 April 2023	First Submission
2	18 April 2023	Amended as per IEC's comments



Acuity Sustainability Consulting Limited Nature & Technologies (HK) Limited Joint Venture



Our ref: PL-202304016

AECOM Asia Company Limited 8/F., Grand Central Plaza, Tower 2 138 Shatin Rural Committee Road Shatin, New Territories, Hong Kong

Attention: Mr. Conrad NG

18 April 2023

Dear Sir,

Contract No. NE/2017/07 & NE/2017/08 Cross Bay Link, Tseung Kwan O Monthly EM&A Report for March 2023

I refer to the email of the ET concerning the Monthly EM&A Report for March 2023 (Version 2) with Ref. No. TCS00975/18/600/R0747v2. We have no adverse comment on it and verify the captioned monthly report according to Conditions 1.9 and 4.4 of Environmental Permit with No. EP-459-2013.

Yours faithfully,

Li Wai Ming Kevin Independent Environmental Checker

cc. Mr. T.W. TAM (ETL) Ms. Sheri S.Y. LEUNG (CEDD)



EXECUTIVE SUMMARY

- ES01 Civil Engineering and Development Department (hereafter referred as "CEDD") is the Project Proponent and the Permit Holder of the Project Cross Bay Link, Tseung Kwan O (hereinafter referred as "the Project") which is a Designated Project to be implemented under Environmental Permit number EP-459/2013 (hereinafter referred as "the EP-459/2013" or "the EP").
- ES02 AUES was awarded the CEDD Contract Agreement No. EDO/04/2018 Environmental Team for Cross Bay Link, Tseung Kwan O (hereinafter called "the Service Contract"). The Services under the Service Contract is to provide environmental monitoring and audit (EM&A) services for the Works Contracts pursuant to the requirement of Environmental Team (ET) under the Approved EM&A Manual to ensure that the environmental performance of the Works Contracts comply with the requirement specified in the EM&A Manual and EIA Report of Agreement No. CE 43/2008 (HY) Cross Bay Link, Tseung Kwan O - Investigation and other relevant statutory requirements.
- ES03 To facilitate management, the proposed Works of the project was divided into two Civil Engineering and Development Department (CEDD) Works contracts included Contract 1 (Contract No. NE/2017/07) and Contract 2 (Contract No. NE/2017/08). The date for commencement of Contract 1 was 3rd December 2018 while the date for commencement of Contract 2 was 17th January 2019.
- ES04 According to the Approved Environmental Monitoring & Audit (EM&A) Manual, air quality, noise and water quality monitoring are required to be conducted during the construction phase of the Project. As part of the EM&A programme, baseline monitoring shall undertake before the Project construction work commencement to determine the ambient environment condition. The baseline air quality, background noise and water quality monitoring has been carried out between 21st September 2018 and 13th November 2018 at the designated and interim locations. The baseline monitoring report under the EP-459/2013 has been compiled by the ET and verified by Independent Environmental Checker (hereinafter the "IEC") prior submitted to EPD on 19th November 2018 for endorsement.
- ES05 This is the 52nd Monthly EM&A report presenting the monitoring results and inspection findings for the reporting period from *1* to *31 March 2023* (hereinafter 'the Reporting Period').

CONSTRUCTION WORKS CONDUCTED AT THE REPORTING MONTH

- ES06 The major construction activities of Contract 1 (Contract No. NE/2017/07) undertaken in this Reporting Period are:-
 - E&M SAT Work
 - E&M Pre-handover inspection
 - E&M defect rectification works
- ES07 The major construction activities of Contract 2 (Contract No. NE/2017/08) undertaken in this Reporting Period are:-
 - SENB rectification at At-Grade Road and Wan O Road
 - SENB rectification at Portion III, U-trough and Elevated Deck
 - Road Paving Work
 - Footpath and cycle track paving work
 - Drainage CCTV Work
 - Replacement permanent drainpit cover



ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES08 Environmental monitoring activities under the EM&A program in this Reporting Period are summarized in the following table.

Table ES-4	Summary Environmental Monitoring Activities Undertaken in the Reporting
	Period

Issues	Enviror	nmental Monitoring Parameters / Inspection	Sessions
Air Quality	1-Hour TSF		30
Air Quality	24-Hr TSP		12
	Leq (30min) Daytime	15
Construction Noise		Evening ^(Note 1)	0
	Leq (5min) Night ^(Note 1)		0
Water Quality	Marine Water Sampling ^{(Note 2) (Note 3)}		0
	Contract 1	ET Regular Environmental Site Inspection	5
Inspection (Audit	Contract 1	Joint site audit with Project Consultant and IEC	1
Inspection / Audit		ET Regular Environmental Site Inspection	
	Contract 2	Joint site audit with Project Consultant and IEC	1

Note 1 Total sessions are counted by every 3 consecutive Leq5min

Note 2 Total sessions are counted by monitoring days

Note 3 Since the marine construction works that requires marine water quality monitoring as stated in the EM&A Manual were completed, the impact water quality monitoring was ceased with effect from 1 May 2020.

BREACH OF ACTION AND LIMIT (A/L) LEVELS

ES09 No air quality and construction noise monitoring exceedance was recorded in this Reporting Period. The statistics of environmental exceedance and investigation of exceedance are summarized in the following table.

 Table ES-5
 Summary Environmental Monitoring Parameter Exceedance in the Reporting Period

Environmental	Monitoring	Action	Limit	F	Event & Action
Issues	Parameters	Level	Level	Investigation Results	Corrective Actions
Air Quality	1-Hour TSP	0	0		
	24-Hr TSP	0	0		
	Leq _{30min} Daytime	0	0		
Construction Noise	Leq _{5min} Evening	0	0		
	Leq _{5min} Night	0	0		
Water Quality	DO	0	0		
Water Quality (Marine Water)	Turbidity	0	0		
(wiarine water)	SS	0	0		

ENVIRONMENTAL COMPLAINT

ES10 In the reporting period, no environmental complaints were recorded for the Project. The statistics of environmental complaint are summarized in the following table.



Table ES-6 Summary Environmental Complaint Records in the Reporting Period

Reporting	Contract	Contract Environmental Complaint Statistics			Related with the
Period	Contract	Frequency	Cumulative	Complaint Nature	Works Contract(s)
1 21 Manah	1	0	33	NA	NA
1 – 31 March 2023	2	0	26	NA	NA

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES11 No environmental summons or prosecutions was received in this Reporting Period for the Project. The statistics of environmental summons or prosecutions are summarized in the following tables.

 Table ES-7
 Summary Environmental Summons Records in the Reporting Period

Reporting	Contract	Enviro	nmental Summ	ons Statistics	Related with the
Period	Contract	Frequency	Cumulative	Complaint Nature	Works Contract(s)
1 – 31 March	1	0	0	NA	NA
2023	2	0	0	NA	NA

Table ES-8 Summary Environmental Prosecutions Records in the Reporting Poly

Reporting	Contract	Environmental Prosecution Statistics			Related with the
Period	Contract	Frequency	Cumulative	Complaint Nature	Works Contract(s)
1 – 31 March	1	0	0	NA	NA
2023	2	0	0	NA	NA

REPORTING CHANGE

ES12 There is no reporting change made for this monthly report.

FUTURE KEY ISSUES

- ES13 Due to wet season is approaching, the Contractor was reminded that all the works being undertaken must fulfill environmental statutory requirements and to paid attention to water quality mitigation measures to prevent surface runoff into nearby water bodies or public areas.
- ES14 Although opening of Cross Bay Link was held in early December 2022, construction noise from the remaining work of the Project would be the key environmental issue as the work areas are located near Lohas Park. Noise mitigation measures such as use of quiet plants and installation of temporary noise barrier at the construction noise predominate area should be fully implemented in accordance with the EM&A requirement.



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1. INTRODUCTION

1.1 **PROJECT BACKGROUND**

- 1.1.1 Civil Engineering and Development Department (hereafter referred as "CEDD") is the Project Proponent and the Permit Holder of the Project Cross Bay Link, Tseung Kwan O (hereinafter referred as "the Project") which is a Designated Project to be implemented under Environmental Permit number EP-459/2013 (hereinafter referred as "the EP-459/2013" or "the EP").
- 1.1.2 AUES was awarded the CEDD Contract Agreement No. EDO/04/2018 Environmental Team for Cross Bay Link, Tseung Kwan O (hereinafter called "the Service Contract"). The Services under the Service Contract is to provide environmental monitoring and audit (EM&A) services for the Works Contracts pursuant to the requirement of Environmental Team (ET) under the Approved EM&A Manual to ensure that the environmental performance of the Works Contracts comply with the requirement specified in the EM&A Manual and EIA Report of Agreement No. CE 43/2008 (HY) Cross Bay Link, Tseung Kwan O - Investigation and other relevant statutory requirements.
- 1.1.3 To facilitate management, the proposed Works of *Cross Bay Link, Tseung Kwan O* (hereinafter called "the Project') was divided into two Civil Engineering and Development Department (CEDD) Works contracts included *Contract 1 (Contract No. NE/2017/07)* and *Contract 2 (Contract No. NE/2017/08)*. The details of each contract Works are summarized below and the delineation of each contract is shown in *Appendix A*.

Contract 1 (Contract No. NE/2017/07)

- (i) 400m section of marine viaducts of steel deck sections including the Eternal Arch Bridge;
- (ii) 600m section of marine viaducts of concrete deck sections;
- (iii) An E&M Plantroom and associated building services; and
- (iv) E&M provisions.

Contract 2 (Contract No. NE/2017/08)

- (i) Elevated deck structures along Road D9;
- (ii) A 210m section of cycle track and footpath ramp bridge;
- (iii) A 630m section of noise semi-enclosure covering the entire length of Road D9, and;
- (iv) Lift, staircase, modification of existing seawall along Road D9, landscaping and miscellaneous works.
- 1.1.4 The date for commencement of Contract 1 is 3^{rd} December 2018 while the date for commencement of Contract 2 is 17^{th} January 2019.
- 1.1.5 As part of the EM&A programme, baseline monitoring shall be undertaken before the Project construction work commencement to determine the ambient environmental condition. The baseline air quality, background noise and water quality monitoring has been carried out between **21**st September 2018 and 13th November 2018 at the designated and interim locations. The baseline monitoring report under the EP-459/2013 has been compiled by the ET and verified by Independent Environmental Checker (hereinafter the "IEC") prior submitted to EPD on 19th November 2018 for endorsement.
- 1.1.6 This is the **52nd** Monthly EM&A report presenting the monitoring results and inspection findings for the reporting period from *1* to *31 March 2023* (hereinafter 'the Reporting Period').

1.2 REPORT STRUCTURE

- 1.2.1 The Environmental Monitoring and Audit (EM&A) Monthly Report is structured into the following sections:-
 - Section 1IntroductionSection 2Project Organization and Construction ProgressSection 3Summary of Impact Monitoring RequirementsSection 4Air Quality MonitoringSection 5Construction Noise Monitoring



Section 6	Water Quality Monitoring
Section 7	Waste Management
Section 8	Site Inspections
Section 9	Landfill Gas Monitoring
Section 10	Environmental Complaints and Non-Compliance
Section 11	Implementation Status of Mitigation Measures
Section 12	Conclusions and Recommendations

2. PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS AND SUBMISSION

2.1 **PROJECT ORGANIZATION**

2.1.1 The project organization is shown in *Appendix B*. The responsibilities of respective parties are:

The Project Consultant

- 2.1.2 The Project Consultant (hereinafter "the Consultant") is responsible for overseeing the construction works and for ensuring that the works are undertaken by the Contractor in accordance with the specification and contract requirements. The duties and responsibilities of the Consultant with respect to EM&A are:
 - Monitor the Contractors' compliance with contract specifications, including the implementation and operation of the environmental mitigation measures and their effectiveness
 - Monitor Contractors', ET's and IEC's compliance with the requirements in the Environmental Permit (EP) and EM&A Manual
 - Facilitate ET's implementation of the EM&A programme
 - Participate in joint site inspection by the ET and IEC
 - Oversee the implementation of the agreed Event / Action Plan in the event of any exceedance
 - Adhere to the procedures for carrying out complaint investigation

The Contractor(s) of Works Contract(s)

- 2.1.3 There will be one contractor for each individual works contract. The Contractor(s) should report to the Consultant. The duties and responsibilities of the Contractor are:
 - Comply with the relevant contract conditions and specifications on environmental protection
 - Participate in the site inspections by the ET and IEC, and undertake any corrective actions
 - Provide information / advice to the ET regarding works programme and activities which may contribute to the generation of adverse environmental impacts
 - Submit proposals on mitigation measures in case of exceedances of Action and Limit levels in accordance with the Event / Action Plans
 - Implement measures to reduce impact where Action and Limit levels are exceeded
 - Adhere to the procedures for carrying out complaint investigation

Environmental Team (ET)

- 2.1.4 ET shall not be in any way an associated body of the Contractor(s) and employed by the Permit Holder (i.e., CEDD) to conduct the EM&A programme. The ET should be managed by the ET Leader. The ET Leader shall be a person who has at least 7 years' experience in EM&A and has relevant professional qualifications. Suitable qualified staff should be included in the ET, and resources for the implementation of the EM&A programme should be allocated in time under the Contract(s), to enable fulfillment of the Project's EM&A requirements as specified in the EM&A Manual during construction of the Project. ET shall report to the Project Proponent and the duties shall include:
 - Conduct baseline monitoring, impact monitoring and post-construction monitoring and the associated in-situ and laboratory tests to monitor various environmental parameters as required in the EM&A Manual and the EP
 - Analyze the environmental monitoring and audit data, review the success of EM&A programme and the adequacy of mitigation measures implemented, confirm the validity of the EIA predictions and identify any adverse environmental impacts arising
 - Carry out regular site inspection to investigate and audit the Contractors' site practice, equipment/plant and work methodologies with respect to pollution control and environmental mitigation, and effect proactive action to pre-empt problems
 - Monitor compliance with conditions in the EP, environmental protection, pollution prevention and control regulations and contract specifications
 - Audit environmental conditions on site

- Report on the environmental monitoring and audit results to EPD, the Consultant, the IEC and Contractor(s) or their delegated representatives
- Recommend suitable mitigation measures to the Contractor in the case of exceedance of Action and Limit levels in accordance with the Event and Action Plans
- Liaise with the IEC on all environmental performance matters and timely submit all relevant EM&A proforma for approval by IEC
- Advise the Contractor(s) on environmental improvement, awareness, enhancement measures etc., on site
- Adhere to the procedures for carrying out complaint investigation
- Set up a dedicated web site where the project information, all environmental monitoring and audit data and reports described in Condition 5.2 of the EP, and all finalized submissions and plans required under the EP are to be placed for public inspection
- Upload the environmental monitoring results to the dedicated web site in accordance with requirements of the EP and EM&A Manual
- To carry out the Operational Phase Landfill Gas monitoring during effluent drainage system maintenance for one year

Independent Environmental Checker (IEC)

- 2.1.5 IEC will be employed for this Project. The Independent Environmental Checker (IEC) should not be in any way an associated body of the Contractor(s) or the ET for the Project. The IEC should be employed by the Permit Holder (i.e., CEDD) prior to the commencement of the construction of the Project. The IEC should have at least 7 years' experience in EM&A and have relevant professional qualifications. The duty of IEC should be:
 - Provide proactive advice to the Project Consultant and the Project Proponent on EM&A matters related to the project, independent from the management of construction works, but empowered to audit the environmental performance of construction
 - Review and audit all aspects of the EM&A programme implemented by the ET
 - Review and verify the monitoring data and all submissions in connection with the EP and EM&A Manual submitted by the ET
 - Arrange and conduct regular, at least monthly site inspections of the works during construction phase, and ad hoc inspections if significant environmental problems are identified
 - Check compliance with the agreed Event / Action Plan in the event of any exceedance
 - Check compliance with the procedures for carrying out complaint investigation
 - Check the effectiveness of corrective measures
 - Feedback audit results to ET by signing off relevant EM&A proforma
 - Check that the mitigation measures are effectively implemented
 - Report the works conducted, the findings, recommendation and improvement of the site inspections, after reviewing ET's and Contractor's works, and advices to the Project Consultant and Project Proponent on a monthly basis

2.2 CONSTRUCTION PROGRESS

2.2.1 3-month rolling construction program of the each Works Contract is enclosed in *Appendix C*; and the major construction activities undertaken in the Reporting Period is presented in below sub-sections.

Contract 1 (Contract No. NE/2017/07)

- 2.2.2 The major construction activities of Contract 1 undertaken in this Reporting Period are:-
 - E&M SAT Work
 - E&M Pre-handover inspection
 - E&M defect rectification works

Contract 2 (Contract No. NE/2017/08)

- 2.2.3 The major construction activities of Contract 2 undertaken in this Reporting Period are:-
 - SENB rectification at At-Grade Road and Wan O Road
 - SENB rectification at Portion III, U-trough and Elevated Deck



- Road Paving Work
- Footpath and cycle track paving work
- Drainage CCTV Work
- Replacement permanent drainpit cover

2.3 SUMMARY OF ENVIRONMENTAL SUBMISSIONS

2.3.1 The required documents list below shall be to submit to EPD for retention:

Table 2-1 Documents Submission under Environmental Permit Requirement

EP condition	Submission to EPD	Requirement	Situation
	construction of the Project	no later than 1 month prior to the commencement of construction of the Project	Oct 2018Contract 2 notified EPD on 12 Dec 2018
2.3	the Community Liaison	commencement of construction of the Project	 CLG setting has submitted to EPD on 9 Oct 2018
2.4	Organization of Main	No later than 2 weeks before the commencement of construction of the Project	5
2.5	(WMP)	No later than 1 month before commencement of construction of the Project	
	Plan (LSMP)	No later than 1 month before commencement of construction of the Project	 LSMP was submitted on 1 Nov 2018
2.7	Landfill Gas Hazards	No later than 1 month before commencement of construction of the Project	-

- 2.3.2 Upon completed baseline monitoring, a Baseline Monitoring Report was verified by IEC on 19 November 2018 and submitted to EPD on that day for endorsement.
- 2.3.3 The notification of Project dedicated web site to EPD was made on 9 January 2019 (http://www.envcbltko.hk/).
- 2.3.4 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project are presented in *Table 2-2*.

		License/Permit Status				
Item	Description	Permit no./	Valid P	Period		
Item	Account no./ Ref. no.		From	То	Status	
1	Notification pursuant to Air pollution Control (Construction Dust) Regulation				Notified on 11 July 2018	
2	Chemical Waste Producer Registration	5213-839-C1232 -19	28 Aug 2018	N/A		
3	Water Pollution Control Ordinance - Discharge	WT00032842-20 18	1 Mar 2019	31 Mar 2024	Valid until 31 March 2024	
	License	WT00034178-20 19	15 Jul 2019	31 Jul 2024	Valid until 31 July 2024	
4	BillingAccountforDisposalofConstructionWaste	7031412	24 Jul 2018	N/A		

Table 2-2 Status of Environmental Licenses and Permits of the Project Works (Contract 1)

Table 2-3 Status of Environmental Licenses and Permits of the	e Project Works (Contract 2)
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		License/Permit Status				
Item	Description	Permit no./	Valid P	eriod	Status	
Item	Description	Account no./ Ref. no.	From	То		
1	Notification pursuant to Air pollution Control (Construction Dust) Regulation				Notified on 31 October 2018	
2	Chemical Waste Producer Registration	5213-839-B2500 -04	22 Nov 2018	N/A		
3	Water Pollution Control Ordinance - Discharge License	WT00034244-20 19	8 Jul 2019	31 Jul 2024	Valid until 31 July 2024	
4	Billing Account for Disposal of Construction Waste	7032702	8 Nov 2018	N/A		



3. SUMMARY OF ENVIRONMENTAL MONITORING PROGRAMMES AND REQUIREMENTS

3.1 GENERAL

3.1.1 The Environmental Monitoring and Audit Programmes and requirements are set out in the Approved EM&A manual. Environmental issues such as air quality, construction noise and water quality were identified as the key issues during the construction phase of the Project. A summary of EM&A programmes and requirements are presented in the sub-sections below.

3.2 MONITORING PARAMETERS

3.2.1 Monitoring parameters of air quality, noise and water quality are summarized in *Table 3-1*.

Table 5-1 Summary of EMCA Requirements						
Environmental Issue	Parameters					
Air Quality	 1-hour TSP by Real-Time Portable Dust Meter; and 24-hour TSP by High Volume Air Sampler 					
Noise	 Leq (30min) in six consecutive Leq(5 min) between 07:00-19:00 on normal weekdays Supplementary information for data auditing, statistical results such as L₁₀ and L₉₀ shall also be obtained for reference. 					
Water Quality	 In-situ measurement – Dissolved Oxygen (DO) concentration (mg/L) & saturation (%), pH, Salinity (mg/L), Temperature (°C) and Turbidity (NTU); and Laboratory analysis – SS (mg/L) 					

Table 3-1 Summary of EM&A Requirements

3.3 MONITORING LOCATIONS

Air Quality and Construction Noise

3.3.1 According to the Approved EM&A Manual Section 5.4 and Section 6.3, three (3) representative air sensitive receivers (ASR) and four (4) representative noise sensitive receivers were designated as monitoring stations. The designated air quality and noise monitoring locations are listed in *Table 3-2* and *Table 3-3*, and illustrated in *Appendix D*.

Table 3-2 Designated Air Quality Monitoring Location recommended in EM&A Manual

ID	Location in the EM&A Manual	Currently Situation
AM1	Tung Wah Group of Hospitals Aided Primary School & Secondary School	Not yet construct
AM2	Lohas Park Stage 2 (Planned Development in Area 86)	Available for resident occupation in February 2021
AM3	Lohas Park Stage 3 (Planned Development in Area 86)	Under Construction

Table 3-3 Designated Construction Noise Monitoring Location recommended by EM&A Manual

ID	Location	Currently Situation
CNMS-1	Lohas Park Stage 1(Planned Development in Area 86, Package 4) (Southeast facade)	Available for resident occupation in November 2019
CNMS-2	Lohas Park Stage 1 (Planned Development in Area 86, Package 6) (Southeast facade)	Available for resident occupation in February 2021
CNMS-3	Lohas Park Stage 3 (Planned Development in Area 86,Package 11) (West facade)	Under Construction
CNMS-4	Tung Wah Group of Hospitals Aided Primary School & Secondary School (Southwest facade)	Not yet construct

3.3.2 As observed and confirmed by ET and IEC during the joint site visit on 29th August 2018, the designated air quality and noise monitoring locations are under construction or yet to construct. It is considered that these designated locations are not appropriate to perform air quality and noise monitoring. In this regard, alternative locations were proposed as interim arrangement to carry out



air quality and noise monitoring before occupation of the designated monitoring location. A letter enclosed with the alternative location proposal and IEC verification (Our Ref: TCS00975/18/300/L0038) was sent to EPD on 19th October 2018 and the proposal was agreed by EPD. Therefore, air quality and construction noise impact monitoring would be performed at the agreed alternative locations until the designated sensitive receivers occupied and granted the premises.

- 3.3.3 Construction noise monitoring for Lohas Park Phase 4 was commenced in November 2019 while 1-Hour TSP air quality and construction noise monitoring was commenced in February 2021 regarding the handover of residential units to purchasers. Since power supply is not available from Lohas Park Phase 6 and is only available near the site office after Cross Bay Link opened in December 2022, an interim alternative monitoring location AM2b was proposed for the 24-Hour TSP monitoring of Lohas Park Phase 6 due to the limitation on the power supply for the HVS.
- 3.3.4 The designated and interim alternative monitoring location for impact air quality and noise monitoring in the Reporting Period are summarized in Table 3-4 and illustrated in *Appendix D*.

Table 3-4	Designated	and	interim	alternative	location	for	air	quality	and	noise
	monitoring	in the	Reportin	ng Period						

Location ID Monitoring Parameter		Location
AM2	1-Hour TSP Air Quality	Lohas Park Phase 6
AM2b	24-Hour TSP Air Quality	Near Lohas Park Phase 6
AM4	1-Hour TSP Air Quality	Podium of Lohas Park Phase 2A (Le Prestige)
AM5	24-Hour TSP Air Quality	Boundary of Site Office near Junction of Wan Po Road and Wan O Road
CNMS-1	Noise (L _{eq} , L ₁₀ & L ₉₀)	Podium of Lohas Park Package 4
CNMS-2	Noise (L _{eq} , L ₁₀ & L ₉₀)	Lohas Park Package 6
CNMS-5	Noise (L _{eq} , L ₁₀ & L ₉₀)	Podium of Lohas Park Phase 2A (Le Prestige)

Remark: Since 24-Hour TSP Air Quality monitoring is not granted at AM4 Lohas Park Phase 2A, the 24-Hour TSP monitoring was therefore proposed at AM5 which is located at the boundary of the project site office.

Water Quality

3.3.5 According to Table 7.1 of the approved EM&A Manual Section 7.4, two Control Stations (C3 & C4), six (6) sensitive receivers (CC1, CC2, CC3, CC4, CC13 & SWI1) and one (1) Gradient station (I1) are recommended to perform water quality monitoring. Details and coordinate of these water quality monitoring stations are described in *Table 3-5* and the locations is shown in *Appendix D*.

 Table 3-5
 Location of Water Quality Monitoring Station

Station	Coord	linates	Description
Station	Easting	Northing	Description
CC1	843201	816416	Sensitive Receiver – Coral Sites at Chiu Keng Wan
CC2	844076	817091	Sensitive Receiver – Coral Sites at Junk Bay
CC3	844606	817941	Sensitive Receiver – Coral Sites at Junk Island
CC4	845444	815595	Sensitive Receiver – Coral Sites at Fat Tong Chau West
CC13	844200	817495	Sensitive Receiver – Coral Sites at Junk Bay near Chiu Keng Wan
SWI1	845512	817442	Sensitive Receiver – Tseung Kwan O Salt Water Intake
C3	843821	816211	Control Station (Ebb Tide) – within Junk Bay
C4	844621	815770	Control Station (Flood Tide) – within Junk Bay
I1	844602	817675	Gradient Station – in between Lam Tin Tunnel (LTT) and CBL

3.4 MONITORING FREQUENCY AND PERIOD

3.4.1 To according with the approved *EM&A Manual*, impact monitoring requirements are presented as follows.

Air Quality Monitoring

- 3.4.2 Air quality impact monitoring frequency is as follows:
 - Once every 6 days of 24-hour TSP and 3 times of 1-hour TSP monitoring; during course of



works throughout the construction period

Construction Noise Monitoring

- 3.4.3 Construction noise monitoring frequency is as follows:
 - One set of Leq_(30min) measurements in a weekly basis between 07:00 and 19:00 hours on normal weekdays during course of works as throughout the construction period
 - If construction works are extended to include works during the hours of 1900-0700, additional weekly impact monitoring shall be carried out during evening and night-time works. Applicable permits under the NCO shall be obtained by the Contractor.

Water Quality (Marine Water) Monitoring

- 3.4.4 Marine water impact monitoring frequency is as follows:
 - Three days a week, at mid ebb and mid flood tides during course of pile excavation works for the bridge pier foundations underway. Moreover, the intervals between 2 consecutive sets of monitoring day shall not be less than 36 hours.

3.5 MONITORING EQUIPMENT

<u>Air Quality Monitoring</u>

3.5.1 The 24-hour and 1-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the *Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50)*, Appendix *B*. If the ET proposes to use a direct reading dust meter to measure 1-hour TSP levels, it shall submit sufficient information to the IEC to prove that the instrument is capable of achieving a comparable results to the HVS. The instrument should be calibrated regularly, and the 1-hour sampling shall be determined on yearly basis by the HVS to check the validity and accuracy of the results measured by direct reading method. The filter paper of 24-hour TSP measurement shall be determined by HOKLAS accredited laboratory. The equipment used for air quality monitoring is listed in *Table 3-6*.

	Equipment	Model
24-hour TSP	High Volume Air Sampler	TISCH High Volume Air Sampler, HVS Model TE-5170
	Calibration Kit	TISCH Model TE-5025A (S/N: 4064)
1- hour TSP	Portable Dust Meter	Laser Dust Monitor Sibata LD-3B Laser Dust Monitor (S/N: 366418, 366407 & 2X6145)

Table 3-6Air Quality Monitoring Equipment

Noise Monitoring

3.5.2 Sound level meter in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. The sound level meter shall be checked using an acoustic calibrator. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in ms⁻¹. Noise equipment will be used for impact monitoring is listed in *Table 3-7*.

Equipment	Model
Integrating Sound Level Meter	Rion NL-52 (S/N:00921191)
Calibrator	Rion NC-73 (S/N:10655561)
Portable Wind Speed Indicator	Anemometer AZ Instrument 8908

Water Quality Monitoring

- 3.5.3 For water quality monitoring, the equipment should fulfill the requirement under the Approved *EM&A Manual Section 7.2*. The requirement is summarized below:
 - **Dissolved Oxygen and Temperature Measuring Equipment** The instrument should be a portable, weatherproof dissolved oxygen measuring instrument completed with cable, sensor, comprehensive operation manuals, and should be operable from a DC power source. It should be capable of measuring: dissolved oxygen levels in the range of 0-20 mg/L and

0-200% saturation; and a temperature of 0-45 degrees Celsius. It should have a membrane electrode with automatic temperature compensation complete with a cable of not less than 35 m in length. Sufficient stocks of spare electrodes and cable should be available for replacement where necessary.

- *Turbidity Measurement Equipment* The instrument shall be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment shall use a DC power source. It shall have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU.
- *Salinity Measurement Instrument* A portable salinometer capable of measuring salinity in the range of 0-40 ppt should be provided for measuring salinity of the water at each monitoring location.
- *Water Depth Detector* A portable, battery-operated echo sounder should be used for the determination of water depth at each designated monitoring station. A detector affixed to the bottom of the works boat, if the same vessel is to be used throughout the monitoring programme, is preferred.
- **Positioning Device** hand-held or boat-fixed type digital Global Positioning System (GPS) with way point bearing indication or other equipment instrument of similar accuracy, should be provided and used during water quality monitoring to ensure the monitoring vessel is at the correct location before taking measurements.
- Water Sampling Equipment A water sampler, consisting of a transparent PVC or glass cylinder of not less than two liters, which can be effectively sealed with cups at both ends, should be used. The water sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth.

	3.5.4	Equipment used for	water quality impact	monitoring is listed	in <i>Table 3-8</i> .
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Equipment	Model	
A Digital Global Positioning System	GPS12 Garmin	
Water Depth Detector	Eagle Sonar CUDA 300	
Water Sampler	A 2-litre transparent PVC cylinder with latex cups at both	
water Sampler	ends	
Thermometer & DO meter		
pH meter	 YSI ProDSS Digital Sampling System Water Quality Meter 	
Turbidimeter	1 SI PIODSS Digital Sampling System water Quality Meter	
Salinometer		
Sample Container	High density polythene bottles (provided by laboratory)	
Storage Container	'Willow' 33-litter plastic cool box with Ice pad	

Table 3-8Water Monitoring Equipment

3.6 MONITORING PROCEDURES <u>Air Quality</u>

1-hour TSP

- 3.6.1 The 1-hour TSP monitor was a brand named "*Sibata LD-3 Laser Dust monitor Particle Mass Profiler & Counter*" which is a portable, battery-operated laser photometer. The 1-hour TSP meter provides a real time 1-hour TSP measurement based on 90° light scattering. The 1-hour TSP monitor consists of the following:
 - (a.) A pump to draw sample aerosol through the optic chamber where TSP is measured;
 - (b.) A sheath air system to isolate the aerosol in the chamber to keep the optics clean for maximum reliability; and
 - (c.) A built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.

24-hour TSP

3.6.2 The equipment used for 24-hour TSP measurement is TISCH, Model TE-5170 TSP High Volume Air Sampler, which complied with *EPA Code of Federal Regulation, Appendix B to Part 50*. The High Volume Air Sampler (HVS) consists of the following:



- (a.) An anodized aluminum shelter;
- (b.) A 8"x10" stainless steel filter holder;
- (c.) A blower motor assembly;
- (d.) A continuous flow/pressure recorder;
- (e.) A motor speed-voltage control/elapsed time indicator;
- (f.) A 7-day mechanical timer, and
- (g.) A power supply of 220v/50 Hz
- 3.6.3 For HVS for 24-hour TSP monitoring, the HVS is mounted in a metallic cage with a top for protection and also it is sat on the existing ground or the roof of building. The flow rate of the HVS between 0.6m³/min and 1.7m³/min will be properly set in accordance with the manufacturer's instruction to within the range recommended in *EPA Code of Federal Regulation, Appendix B to Part 50*. Glass Fiber Filter 8" x 10" of TE-653 will be used for 24-Hour TSP monitoring and would be supplied by laboratory. The general procedures of sampling are described as below:-
 - A horizontal platform with appropriate support to secure the samples against gusty wind should be provided;
 - No two samplers should be placed less than 2 meters apart;
 - The distance between the sampler and an obstacle, such as building, must be at least twice the height that the obstacle protrudes above the sample;
 - A minimum of 2 meters of separation from any supporting structure, measured horizontally is required;
 - Before placing any filter media at the HVS, the power supply will be checked to ensure the sampler work properly;
 - The filter paper will be set to align on the screen of HVS to ensure that the gasket formed an air tight seal on the outer edges of the filter. Then filter holder frame will be tightened to the filter hold with swing bolts. The holding pressure should be sufficient to avoid air leakage at the edge.
 - The mechanical timer will be set for a sampling period of 24 hours (00:00 mid-night to 00:00 mid-night next day). Information will be recorded on the field data sheet, which would be included the sampling data, starting time, the weather condition at current and the filter paper ID with the initial weight;
 - After sampling, the filter paper will be collected and transfer from the filter holder of the HVS to a sealed envelope and sent to a local HOKLAS accredited laboratory for quantifying.
- 3.6.4 All the sampled 24-hour TSP filters will be kept in normal air conditioned room conditions, i.e. 70% HR (Relative Humidity) and 25°C, for six months prior to disposal.
- 3.6.5 The HVS used for 24-hour TSP monitoring will be calibrated in two months interval for in accordance with the manufacturer's instruction using the NIST-certified standard calibrator (Tisch Calibration Kit Model TE-5025A) to establish a relationship between the follow recorder meter reading in cfm (cubic feet per minute) and the standard flow rate, Qstd, in m³/min. Motor brushes of HVS will be regularly replaced. The calibration certificates of the air quality monitoring equipment used for the impact monitoring and the HOKLAS accredited certificate of laboratory was provided in Appendix G.

Noise Monitoring

3.6.6 As referred to in the Technical Memorandum (TM) issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.



- 3.6.7 All noise measurements will be performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq). Leq_(30 min) in six consecutive Leq_(5 min) measurements will be used as the monitoring parameter for the time period between 07:00-19:00 hours on weekdays throughout the construction period.
- 3.6.8 The sound level meter will be mounted on a tripod at a height of 1.2 m and placed at the assessment point and oriented such that the microphone is pointed to the site with the microphone facing perpendicular to the line of sight. The windshield will be fitted for all measurements. Where a measurement is to be carried out at a building, the assessment point would normally be at a position 1 m from the exterior of the building façade. Where a measurement is to be made for noise being received at a place other than a building, the assessment point would be at a position 1.2 m above the ground in a free-field situation, i.e. at least 3.5 m away from reflective surfaces such as adjacent buildings or walls.
- 3.6.9 Immediately prior to and following each noise measurement the accuracy of the sound level meter will be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements will be accepted as valid only if the calibration level from before and after the noise measurement agrees to within 1.0 dB.
- 3.6.10 Noise measurements will not be made in fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed will be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 3.6.11 The sound level meter and calibrator are calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme at yearly basis. The calibration certificates of noise monitoring equipment used for the impact monitoring was provided in Appendix G.

Marine Water Quality

- 3.6.12 Marine water quality monitoring would be conducted at all designated locations in accordance with Table 7.1 of the approved EM&A Manual. The procedures of water sampling, in-situ measurement and chemical analysis are described as below:
 - A Global Positioning System (GPS) will be used to ensure that the correct location was selected prior to sample collection. A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station.
 - The marine water sampler will be lowered into the water body at a predetermined depth. The trigger system of the sampler is activated with a messenger and opening ends of the sampler are closed accordingly then the sample of water is collected.
 - During the sampling, the sampling container will be rinsed to use a portion of the marine water sample before the water sample is transferred to the container. Upon sampling completion, the container will be sealed with a screw cap.
 - Before the sampling process, general information such as the date and time of sampling, weather condition and tidal condition as well as the personnel responsible for the monitoring will be recorded on the monitoring field data sheet.
 - In-situ measurement including water temperature, turbidity, dissolved oxygen, salinity, pH and water depth will be recorded at the identified monitoring station and depth. At each station, marine water samples will be collected at three depths: 1m below water surface, 1m above sea bottom and at mid-depth when the water depth exceeds 6m. Samples at 1m below water surface and 1m above sea bottom will be collected when the water depth is between 3m and 6m. And sample at mid-depth will be taken when the water depth is below 3m.
 - For the in-situ measurement, two consecutive measurements of sampling depth, temperature, dissolved oxygen, salinity, turbidity and pH concentration will be measured at the sea. The YSI ProDSS Multifunctional Meter will be retrieved out of the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of each set is more than 25% of the value of the first reading, the reading is discarded and further readings is taken.



- Marine water sample will be collected by using a water sampler. The high-density polythene ٠ bottles will be filled after the water sample collected from the sea. Before the water sample being fills into the sampling bottles, the sampling bottles will be pre-rinsed with the same water sample. The sampling bottles will then be packed in cool-boxes (cooled at 4°C without being frozen), and delivered to HOKLAS accredited laboratory for the chemical analysis as followed APHA Standard Methods for the Examination of Water and Wastewater 19ed 2540D, unless otherwise specified.
- 3.6.13 Before each round of monitoring, the dissolved oxygen probe will be calibrated by wet bulb method; a zero check in distilled water will be performed with the turbidity and salinity probes. The turbidity probe also will be checked with a standard solution of known NTU and known value of the pH standard solution were used to check the accuracy of pH value before each monitoring day. Moreover, all in-situ measurement equipment used marine water monitoring will be calibrated at three months interval.

Laboratory Analysis

3.6.14 All water samples included the duplicate samples, was tested with chemical analysis as specified in the EM&A Manual by a HOKALS accredited laboratory - ALS Technichem (HK) Pty Ltd. The chemicals analysis method and reporting limit show *Table 3-9*.

Table 3-9	Testing Method and Reporting Limit of the Chemical Analysis
Table 3-7	Testing Method and Reporting Limit of the Chemical Analysis

Parameter~	Method In-house Meth	od Reference ⁽¹⁾ Reporting Lin
Total Suspended Solids E	A025 APHA	2540D 1 mg/L

Note:

1. The exact method shall depend on the laboratory accredited method. APHA = Standard Methods for the Examination of Water and Wastewater by the American Public Health Association.

3.6.15 The determination works will start within 24 hours after collection of the water samples or within the holding time as advised by the laboratory.

Meteorological Information

- 3.6.16 The meteorological information including wind direction, wind speed, humidity and temperature etc. of impact monitoring is extracted from the closest Tseung Kwan O Hong Kong Observatory Station. Moreover, the data of rainfall and air pressure would be extracted from King's Park Station.
- 3.6.17 For marine water quality monitoring, tidal information would be referred to tide gauge at Tai Miu Wan.

3.7 **DETERMINATION OF ACTION/LIMIT (A/L) LEVELS**

3.7.1 The baseline results form the basis for determining the environmental acceptance criteria for the impact monitoring. A summary of the Action/Limit (A/L) Levels for air quality, construction noise and water quality are shown in *Tables 3-10*, *3-11* and *3-12* respectively.

Monitoring Station	Action Lev	vel (µg /m ³)	Limit Level (µg/m ³)		
Monitoring Station	1-Hour TSP	24-Hr TSP	1-Hour TSP	24-Hr TSP	
AM2	278	NA	500	NA	
AM2b	NA	190	NA	260	
AM4	278	NA	500	NA	
AM5	NA	190	NA	260	
Note: 1-Hour & 24-Hr TSP of Action Level = $(Average Baseline Results \times 1.3 + Limit level)/2$					

Action & Limit Levels of Air Quality (1-Hour & 24-Hr TSP) **Table 3-10**



Table 3-11 Action and Limit Levels for Construction Noise, dB(A)

Monitoring Location	Action Level	Limit Level			
	Time Period: 0700-1900 hours o	n normal weekdays (Leq30min)			
CNMS-1	When one or more documented complaints are received 75 dB(A)				
CNMS-2 CNMS-5	Time Period: 1900-2300 hours on all days (Leq15min)				
	When one or more documented complaints are received	55 dB(A)			
Remarks:					
	e monitoring will be resumed at the desi	gnated locations CNMS-2, CNMS-3 and			

CNMS4 once they are available and permission are granted;

The designated locations CNMS-2 and CNMS-3 are located at residential building which are still under construction, Limit Level of 75dB(A) will be adopted until they are occupied;

- 3. The designated location CNMS-4 is located at planned school and still not yet to construction. When the school occupied and operated, Limit Level of 70dB(A) should be adopted and should be reduced to 65dB(A) during examination period; and
- 4. If construction works are required during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority shall be followed.

Table 3-12	Action and Limit Levels for Water Quality
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Monitoring	Depth Average of SS (mg/L)					
Station	Actio	on Level	Limit Level			
CC1	7.8	OR 120% of upstream control	9			
CC2	9.0	station at the same tide of the same day	9.2	upstream control station at the same tide of the same day		
CC3	8.2	(Control Station C3 at Ebb tide and	9.0	(Control Station C3 at Ebb tide and		
CC4	13.8	Control Station C4 at	15.4	Control Station C4 at		
CC13	8.9	Flood tide), whichever is higher	10.3	Flood tide) , whichever is higher		
SWI1	8	mg/L		10 mg/L		
		Dissolved Oxy	gen (mg/L)			
Monitoring Location	Depth Average of S	Surface and Mid-depth		Bottom		
Location	Action Level	Limit Level	Action Leve	l Limit Level		
CC1	5.8	5.7	5.3	5.2		
CC2	5.8	5.7	5.3	5.1		
CC3	5.5	5.4	4.9	4.7		
CC4	5.7	5.7	5.5	5.4		
CC13	5.6	5.5	5.3	5.2		
SWI1	5.4	4.8	5.1	5.0		
Monitoring	Depth Average of Turbidity (NTU)					
Location	Actio	on Level		imit Level		
CC1	5.8	OR 120% of	6.0	OR 130% of		
CC2	4.6	upstream control station at the same	5.5	upstream control station at the same		
CC3	4.8	tide of the same day (Control Station C3	5.4	tide of the same day (Control Station C3		
CC4	6.1	at Ebb tide and	7.1	at Ebb tide and		
CC13	6.0	Control Station C4 at Flood tide),	6.3	Control Station C4 at Flood tide),		
SWI1	6.1	whichever is higher	7.1	whichever is higher		



3.7.2 Should non-compliance of the environmental quality criteria occurs, remedial actions will be triggered according to the Event and Action Plan which presented in *Appendix E*.

3.8 DATA MANAGEMENT AND DATA QA/QC CONTROL

- 3.8.1 All monitoring data will be handled by the ET's in-house data recording and management system. The monitoring data recorded in the equipment will be downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data will input into a computerized database properly maintained by the ET. The laboratory results will be input directly into the computerized database and checked by personnel other than those who input the data.
- 3.8.2 For monitoring parameters that require laboratory analysis, the local laboratory shall follow the QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory tests.



4. AIR QUALITY MONITORING

4.1 GENERAL

- 4.1.1 In the Reporting Period, 1-Hour TSP monitoring was performed at designated monitoring location AM2 and interim alternative monitoring locations AM4, and 24-Hr TSP of air quality monitoring was performed at interim alternative monitoring locations AM2b and AM5. The air quality monitoring schedule is presented in *Appendix F*.
- 4.1.2 Valid calibration certificates of monitoring equipment are shown in *Appendix G* and the monitoring results are summarized in the following sub-sections

4.2 **RESULTS OF AIR QUALITY MONITORING IN THE REPORTING MONTH**

4.2.1 During the Reporting Period, 30 sessions of 1-hour TSP and 12 sessions of 24-hours TSP monitoring were carried out and the monitoring results are summarized in *Table 4-1* and *Table 4-2*. The detailed 24-hour TSP monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

Table 4-11-Hour TSP Air Quality Impact Monitoring Results for AM4 and 24-Hour
TSP Air Quality Impact Monitoring Results for AM5

151 All Quality Impact Monitoring Results for AMS						
AN	M5	AM4				
24-Hr TS	$P(\mu g/m^3)$	1-Hour TSP (µg/m ³)				
Date	Meas. Result	Date	Start Time	1 st Meas.	2 nd Meas.	3 rd Meas.
2-Mar-23	159	3-Mar-23	9:49	77	80	75
8-Mar-23	58	9-Mar-23	10:02	79	81	76
14-Mar-23	171	15-Mar-23	9:34	77	83	85
20-Mar-23	133	21-Mar-23	9:12	65	63	67
25-Mar-23	61	27-Mar-23	9:15	65	68	63
31-Mar-23	120					
Average (Range)	117 (58 - 171)	Aver (Ran	•		74 (63 - 85)	

Table 4-21-Hour TSP Air Quality Impact Monitoring Results for AM2 and 24-Hour
TSP Air Quality Impact Monitoring Results for AM2b

AN	12b	AM2				
24-Hr TS	Ρ (μg/m ³)	1-Hour TSP (µg/m ³)				
Date	Meas. Result	Date	Start Time	1 st Meas.	2 nd Meas.	3 rd Meas.
2-Mar-23	154	3-Mar-23	10:20	78	83	77
8-Mar-23	91	9-Mar-23	10:28	77	82	78
14-Mar-23	160	15-Mar-23	10:11	81	76	79
20-Mar-23	101	21-Mar-23	9:26	72	78	82
25-Mar-23	31	27-Mar-23	9:25	86	89	85
31-Mar-23	27					
Average (Range)	94 (27 - 160)	Aver (Ran	0		80 (72 - 89)	

- 4.2.2 As shown in *Table 4-1* and *Table 4-2*, all the 1-hour TSP and 24-hour TSP monitoring results were below the Action / Limit Levels. No Notification of Exceedance (NOE) was issued in this Reporting Period.
- 4.2.3 The meteorological data during impact monitoring period is summarized in *Appendix J*.



5. CONSTRUCTION NOISE MONITORING

5.1 GENERAL

- 5.1.1 In the Reporting Period, construction noise quality monitoring was performed at designated monitoring location **CNMS-1 & CNMS-2**, and interim alternative monitoring location **CNMS-5**. The construction noise monitoring schedule is presented in *Appendix F*.
- 5.1.2 Valid calibration certificates of monitoring equipment is shown in *Appendix G* and the construction noise monitoring results are summarized in the following sub-sections:

5.2 **RESULTS OF NOISE MONITORING**

5.2.1 15 sessions of daytime construction noise monitoring were performed at both the designated monitoring location CNMS-1 & CNMS-2 and the interim alternative location CNMS-5 in the reporting period. The daytime noise monitoring results are summarized in *Table 5-1* to *Table 5-3*. The detailed noise monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

Table 5-1	Daytime Construction Noise Impact Monitoring Results at CNMS-1	

Data	Time	Measurement Result (dB(A))		
Date		Leq30min	Façade Correction	
3-Mar-23	11:15	62.0	NA	
9-Mar-23	11:16	59.4	NA	
15-Mar-23	10:26	60.9	NA	
21-Mar-23	10:05	61.3	NA	
27-Mar-23	10:00	62.0	NA	

Table 5-2	Daytime Construction Noise Impact Monitoring Results at CNMS-2
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Data	Time	Measurement Result (dB(A))		
Date	Time	Leq30min	Façade Correction	
3-Mar-23	13:17	60.2	NA	
9-Mar-23	13:09	63.5	NA	
15-Mar-23	11:00	60.1	NA	
21-Mar-23	9:27	61.0	NA	
27-Mar-23	9:25	59.8	NA	

 Table 5-3
 Daytime Construction Noise Impact Monitoring Results at CNMS-5

Data	Time	Measurement Result (dB(A))		
Date	Time	Leq30min	Façade Correction	
3-Mar-23	10:25	63.0	NA	
9-Mar-23	10:31	61.9	NA	
15-Mar-23	9:38	63.0	NA	
21-Mar-23	11:00	61.6	NA	
27-Mar-23	11:00	64.1	NA	

5.2.2 As shown in *Table 5-1* to *Table 5-3*, all the measured results were below 75dB(A) of the acceptance criteria. No adverse weather condition which may affect the monitoring result was encountered during the course of noise monitoring in the reporting period.



6. WATER QUALITY MONITORING

6.1 GENERAL

- 6.1.1 According to the approved EM&A Manual Section 7.6.1, the impact marine water quality monitoring work shall be carried out during the CBL piling and pile excavation works (marine construction activity) of the Project. Impact marine water quality monitoring was commenced in December 2018 when CBL piling and pile excavation works started.
- 6.1.2 As confirmed, all the marine piling and piling excavation work were completed in January 2020 and all pile cap installation work was completed in mid-March 2020. Due to the marine construction works that requires marine water quality monitoring as stated in the EM&A Manual were completed, the impact water quality monitoring was ceased with effect from 1 May 2020 and IEC has no particular comment on this arrangement.
- 6.1.3 No impact water quality monitoring was therefore carried out in the reporting period.



7. WASTE MANAGEMENT

7.1 GENERAL WASTE MANAGEMENT

7.1.1 Waste management would be carried out by an on-site Environmental Officer or an Environmental Consultant from time to time.

7.2 **RECORDS OF WASTE QUANTITIES**

- 7.2.1 All types of waste arising from the construction work are classified into the following:
 - Construction & Demolition (C&D) Material;
 - Chemical Waste; and
 - General Refuse
- 7.2.2 According to the information provided by Contractor of Contract 1 and Contract 2, waste disposal was made in the Reporting period are summarized in *Tables 7-1* and *7-2*.

	Contract 1		Contract 2	
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location
Total C&D Materials (Inert) ('000m ³)	0.006	-	0.014	-
Reused in this Contract (Inert) ('000m ³)	0	-	0	-
Reused in other Projects (Inert) ('000m ³)	0	-	0	-
Disposal as Public Fill (Inert) ('000m ³)	0.006	TKO 137	0.014	TKO 137
Imported Fill ('000m ³)	0	-	0	-

Table 7-1Summary of Quantities of Inert C&D Materials

Table 7-2Summary of Quantities of C&D Wastes

	Cont	ract 1	Cont	ract 2
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location
Recycled Metal ('000kg)	0	-	0	-
Recycled Paper / Cardboard Packing ('000kg)	0.215	Collected by paper recycling company	0	-
Recycled Plastic ('000kg)	0	-	0	-
Chemical Wastes ('000kg)	0	-	0	-
General Refuses ('000m ³)	0.243	NENT	0.020	NENT

7.2.3 The Monthly Summary Waste Flow Table of the Contracts 1 and Contract 2 are shown in *Appendix K*.



8. SITE INSPECTION

8.1 **REQUIREMENTS**

8.1.1 According to the approved EM&A Manual, the environmental site inspection shall be formulation by ET Leader. Weekly environmental site inspections should carry out to confirm the environmental performance.

8.2 FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH Contract 1

- 8.2.1 In this Reporting Month, weekly joint site inspection to evaluate site environmental performance for the *Contract 1* was carried out by the Project Consultant, ET and the Contractor on 1, 8, 16, 22 and 28 March 2023. Moreover, the Independent Environmental Checker (IEC) monthly site inspection was conducted on 8 March 2023.
- 8.2.2 The findings / deficiencies of *Contract 1* that observed during the weekly site inspection are listed in *Table 8-1* and the site layout plan was provided in Appendix A.

Date	Findings / Deficiencies	Follow-Up Status
1 March 2023	• No adverse environmental issue was observed.	• NA
8 March 2023	• No adverse environmental issue was observed.	• NA
16 March 2023	• No adverse environmental issue was observed.	• NA
22 March 2023	• No adverse environmental issue was observed.	• NA
28 March 2023	• No adverse environmental issue was observed.	• NA

Site Observations of the Contract 1 (Contract No. NE/2017/07) Table 8-1

Contract 2

- 8.2.3 In this Reporting Month, weekly joint site inspection to evaluate site environmental performance for the *Contract 2* were carried out by the Project Consultant, ET and the Contractor on 1, 8, 16, 22 and 28 March 2023. Moreover, the Independent Environmental Checker (IEC) monthly site inspection was conducted on 8 March 2023.
- 8.2.4 The findings / deficiencies of *Contract 2* that observed during the weekly site inspection are listed in *Table 8-2* and the site layout plan was provided in Appendix A.

Date	Findings / Deficiencies	Follow-Up Status
1 March 2023	• No adverse environmental issue was observed.	• NA
8 March 2023	• No adverse environmental issue was observed.	• NA
16 March 2023	• No adverse environmental issue was observed.	• NA
22 March 2023	• No adverse environmental issue was observed.	• NA
28 March 2023	• No adverse environmental issue was observed.	• NA

T 11 0 **A** Site Oh fthe Contro at 2 (Cantura at No. NE/2017/09)

8.3 IMPLEMENTATION STATUS OF SURFACE RUNOFF MITIGATION MEASURES

8.3.1 During the inspection of the reporting month, implementation of surface runoff mitigation measures were observed in both Contracts. The surface runoff mitigation measures observed



during the weekly site inspection of Contract 1 and Contract 2 are summarized below and the photo recorded was provided in **Appendix L**.

Contract 1 (Contract No. NE/2017/07)

8.3.2 The surface runoff mitigation measures of Contract 1 implemented in this Reporting Period are:Treatment facilities was installed at site to treat the site generated water prior discharge.

Contract 2 (Contract No. NE/2017/08)

- 8.3.3 The surface runoff mitigation measures of Contract 2 implemented in this Reporting Period are:Treatment facilities was installed at site to treat the site generated water prior discharge.
- 8.3.4 Overall, the surface runoff mitigation measures of Contract 1 and Contract 2 observed during the inspection of the reporting period are efficient.



9. LANDFILL GAS MONITORING

9.1 GENERAL REQUIREMENT

- 9.1.1 Pursuant to Section 13 of the Project's EM&A Manual, landfill gas monitoring shall perform during excavation work within the 250m Consultation Zone of Tseung Kwan O Stage II & III Landfill. For landfill gas monitoring requirements, pre entry and routine measurement shall be undertaken in accordance with the *Factories and Industrial Undertaking (Confined Spaces) Regulation.*
- 9.1.2 According to Environmental Mitigation Implementation Schedule (EMIS) S14.7.6, portable monitoring equipment can be used to conduct landfill gas monitoring. Moreover, the frequency and areas to be monitored should be set down prior to commencement of the works either by the Safety Officer or by an appropriately qualified person.

9.2 LIMIT LEVELS AND EVENT AND ACTION PLAN

9.2.1 In event of the trigger levels specified in Table 14.6 of the EIA report being exceeded, a person, such as the Safety Officer, shall be nominated, with deputies, to be responsible for dealing with any emergency which may occur due to LFG. In an emergency situation the nominated person, or his deputies, shall have the necessary authority and shall ensure that the confined space is evacuated and the necessary works implemented for reducing the concentrations of gas. The Limit levels and relevant Action Plans for landfill gas detected in utilities and any on-site areas following construction is listed in *Table 9-1*.

Parameter	Limit Level	Actions
	>10% LEL (i.e.	Post "No Smoking" signs
	>0.5% by volume)	Prohibit hot works
Methane Ventilate to restore methane to		• Ventilate to restore methane to <10% LEL
Wiethalle	>20% LEL (i.e.	Stop excavation works
	>1% by volume)	 Evacuate personnel/prohibit entry
		• Increase ventilation to restore methane to <10% LEL
	>0.5%	• Ventilate to restore carbon dioxide to <0.5%
Carbon	>1.5%	Stop excavation works
dioxide		Evacuate personnel/prohibit entry
		• Increase ventilation to restore carbon dioxide to <0.5%
	<19%	Ventilation to restore oxygen >19%
Ovugan	<18%	Stop excavation works
Oxygen		Evacuate personnel/prohibit entry
		 Increase ventilation to restore oxygen to >19%

 Table 9-1
 Actions in the Event of Landfill Gas Being Detected in Excavations

9.2.2 In the event of the trigger levels specified in Table 9-1 being exceeded, the Safety Officer shall be responsible for dealing with any emergency which may occur due to landfill gas.

9.3 LANDFILL GAS MONITORING

9.3.1 In the Reporting Period, no landfill gas monitoring was conducted as all the excavation work of Contract 2 was completed.



10. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

10.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

- 10.1.1 In the Reporting Period, no environmental complaint was received for the Project. Besides, no summons and prosecution under the EM&A Programme was lodged for the project.
- 10.1.2 The statistical summary table of environmental complaint is presented in *Tables 10-1, 10-2* and *10-3*.

Table 10-1 Statistical Summary of Environmental Complaints

Ī	Reporting	Contract	Enviro	nmental Compl	aint Statistics	Related with the
	Period	Contract	Frequency	Cumulative	Complaint Nature	Works Contract(s)
ſ	1 – 31 March	1	0	33	NA	NA
	2023	2	0	26	NA	NA

Table 10-2 Statistical Summary of Environmental Summons

Reporting	Reporting Contract Environmental Summons Statis			atistics
Period	Contract	Frequency	Cumulative	Summons Nature
1 – 31 March	1	0	0	NA
2023	2	0	0	NA

Table 10-3 Statistical Summary of Environmental Prosecution

Reporting	Contract	Enviro	nmental Prosecution St	tatistics
Period	Contract	Frequency	Cumulative	Prosecution Nature
1-31 March	1	0	0	NA
2023	2	0	0	NA



11. IMPLEMENTATION STATUS OF MITIGATION MEASURES

11.1 GENERAL REQUIREMENTS

- 11.1.1 The environmental mitigation measures that recommended in the Implementation Schedule for Environmental Mitigation Measures (ISEMM) in the approved EM&A Manual covered the issues of dust, noise, water and waste and they are summarized presented in *Appendix M*.
- 11.1.2 The Contractors had been implementing the required environmental mitigation measures according to the Environmental Monitoring and Audit Manual subject to the site condition. Environmental mitigation measures generally implemented by the Contractors in this Reporting Month are summarized in *Table 11-1* and photo record of water mitigation measure was provided in Appendix L.

Issues	Environmental Mitigation Measures				
Construction	· Regularly to maintain all plants, so only the good condition plants were used				
Noise	on-site ;				
	• If possible, all mobile plants onsite operation has located far from NSRs;				
	• When machines and plants (such as trucks) were not in using, it was switched off;				
	• Wherever possible, plant was prevented oriented directly the nearby NSRs;				
	• Provided quiet powered mechanical equipment to use onsite;				
	• Weekly noise monitoring was conducted to ensure construction noise meet the				
Air Quality	criteria.				
All Quality	 Stockpile of dusty material was covered entirely with impervious sheeting or sprayed with water so as to maintain the entire surface wet; 				
	 The construction plants regularly maintained to avoid the emissions of black 				
	smoke;				
	• The construction plants switched off when it not in use;				
	• Water spraying on haul road and dry site area was provided regularly;				
	• Where a vehicle leaving the works site is carrying a load of dusty materials, the				
	load has covered entirely with clean impervious sheeting; and				
	• Before any vehicle leaving the works site, wheel watering has been performed.				
Water Quality	Debris and refuse generated on-site collected daily;				
	Oils and fuels were stored in designated areas;				
	The chemical waste storage as sealed area provided;				
	• Site hoarding with sealed foot were provided surrounding the boundary of working				
	site to prevent wastewater or site surface water runoff get into public areas; and				
	· Portable chemical toilets were provided on-site. A licensed contractor was				
	regularly disposal and maintenance of these facilities.				
	Silt curtain was installed and maintained in accordance with EP condition				
Waste and	• Excavated material reused on site as far as possible to minimize off-site disposal.				
Chemical	• Scrap metals or abandoned equipment should be recycled if possible;				
Management	• Waste arising kept to a minimum and be handled, transported and disposed of in a suitable manner;				
	• Disposal of C&D wastes to any designated public filling facility and/or landfill				
	followed a trip ticket system; and				
	• Chemical waste handled in accordance with the Code of Practice on the Packaging,				
	Handling and Storage of Chemical Wastes.				
General	• The site is generally kept tidy and clean.				
e enviu	 Mosquito control is performed to prevent mosquito breeding on site. 				

 Table 11-1
 Environmental Mitigation Measures in the Reporting Month

11.2 NOISE MITIGATION MEASURE DURING OPERATION OF THE PROJECT

11.2.1 According to Environmental Permit EP-459/2013 Condition 3.4, noise mitigation measures such as low noise surfacing and semi-enclosure noise barrier shall be implemented at CBL main bridge and Road D9 to mitigate traffic noise impact arising from the operation of Project. The details of the mitigation measures are shown in Table 11-2. An as-built drawing of the low noise surfacing and semi-enclosure noise barrier at CBL main bridge Road D9 was shown in **Appendix O**. All the locations and dimensions of the required mitigation measures are complied with Table 1 and Figure 2 of the EP.



No.	Required Mitigation Measures	Actual Mitigation Measures Implemented
N1	Approx. 300m long low noise surfacing	400m long low noise surfacing
N2	Approx. 960m long low noise surfacing	1060m long low noise surfacing
N3	Approx. 220m long 6m height + 17m width semi-enclosure	220m long 6.6m height + 17m width semi-enclosure
N4	Approx. 245m long 6m height + 10.5m width semi-enclosure	245m long 6.3m height + 10.7m width semi-enclosure
N5	Approx. 22m long 6m height +13.2m width semi-enclosure	22m long 6.3m height + 13.7m width semi-enclosure
N6	Approx. 33m long 6m height + 17.4m width semi-enclosure	33m long 6.3m height + 17.4m width semi-enclosure
N7	Approx. 90m long 6m height + 13.5m width semi-enclosure	90m long 6.3m height + 13.7m width semi-enclosure
N8	Approx. 55m long low noise surfacing	55m long low noise surfacing

Table 11-2Noise Mitigation Measures during Operation of the Project

11.3 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

11.3.1 Tentative construction activities to be undertaken in March 2023 should be included:-

Contract 1

- Removal of temporary support at Pier W2 and E2;
- Top coating of steel deck
- Pier head lighting installation
- T&C for SCADA system

Contract 2

- Remedial work for SEND
- Remedial work for footpath paving
- Other outstanding work

11.4 IMPACT FORECAST

- 11.4.1 Potential environmental impacts arising from the works of the Contracts 1 and Contract 2 include:
 Construction waste generated from the outstanding works
 - Dust impact generated from handling of earth material
 - Dust impact generated from handling of earth material
 Construction noise generated from plants and vehicles;
 - Potential water quality impact from unmanaged site runoff.
- 11.4.2 Environmental mitigation measures shall be properly implemented and maintained as per the Mitigation Implementation Schedule in Appendix M to ensure site environmental performance is acceptable.



12. CONCLUSIONS AND RECOMMENDATIONS

- 12.1 CONCLUSIONS
- 12.1.1 This is the monthly EM&A report as presented the monitoring results and inspection findings for the reporting period from *1* to *31 March 2023*.
- 12.1.2 In this Reporting Period, no 1-Hour TSP and 24-Hr TSP air quality monitoring, and no construction noise monitoring exceedance was recorded. No NOE or the associated corrective actions were therefore issued.
- 12.1.3 In the Reporting Period, no environmental complaint were recorded for the Project with respect to noise nuisance suspected arising from the Project. Investigation for complaints were undertaken by ET and indicated that the noise complaint was not related to Project.

12.2 RECOMMENDATIONS

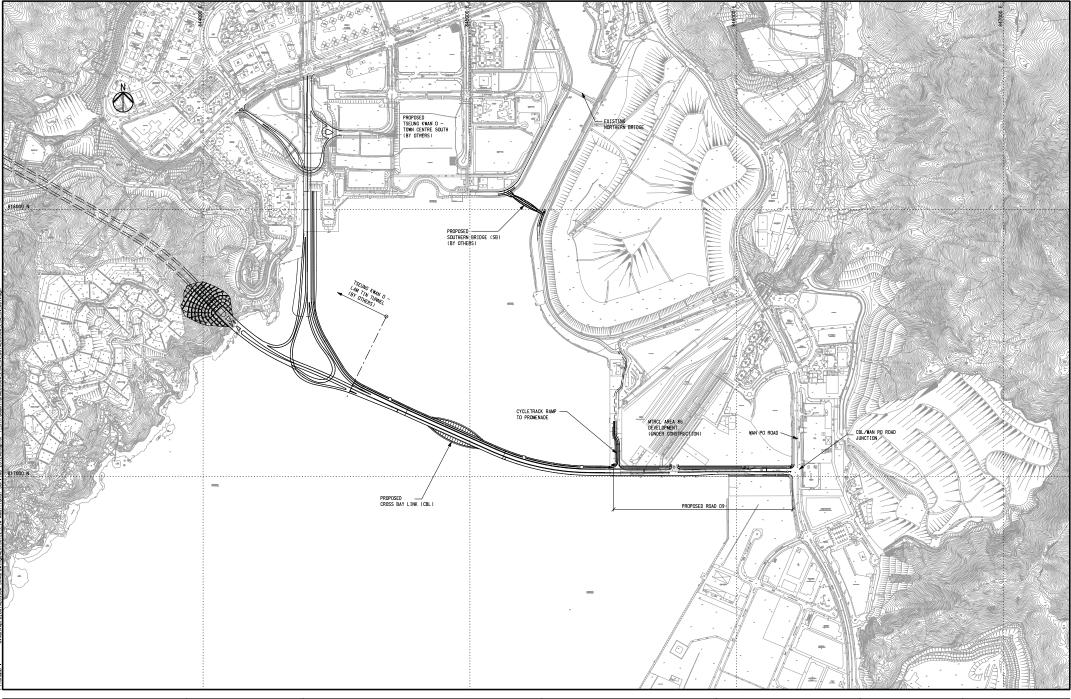
- 12.2.1 Due to wet season is approaching, the Contractor was reminded that all the works being undertaken must fulfill environmental statutory requirements and to paid attention to water quality mitigation measures to prevent surface runoff into nearby water bodies or public areas.
- 12.2.2 Although opening of Cross Bay Link was held in early December 2022, construction noise from the remaining work of the Project would be the key environmental issue as the work areas are located near Lohas Park. Noise mitigation measures such as use of quiet plants and installation of temporary noise barrier at the construction noise predominate area should be fully implemented in accordance with the EM&A requirement.



Appendix A

Project Layout Plan

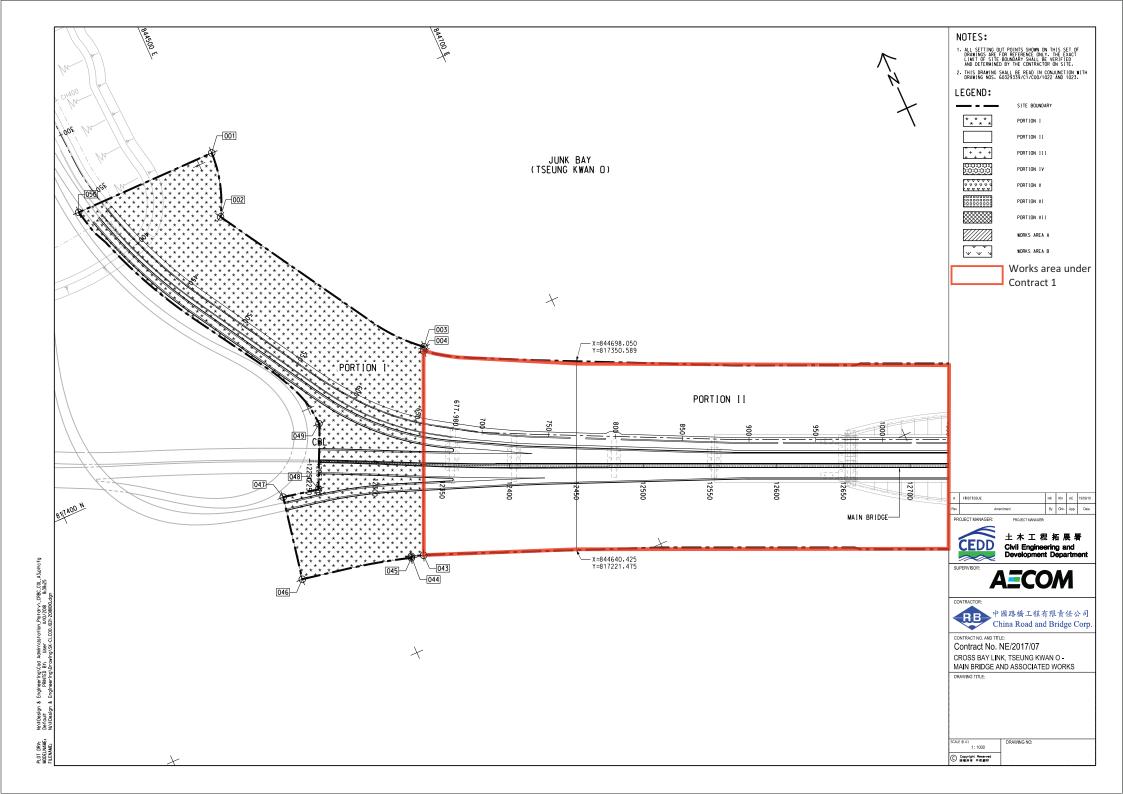
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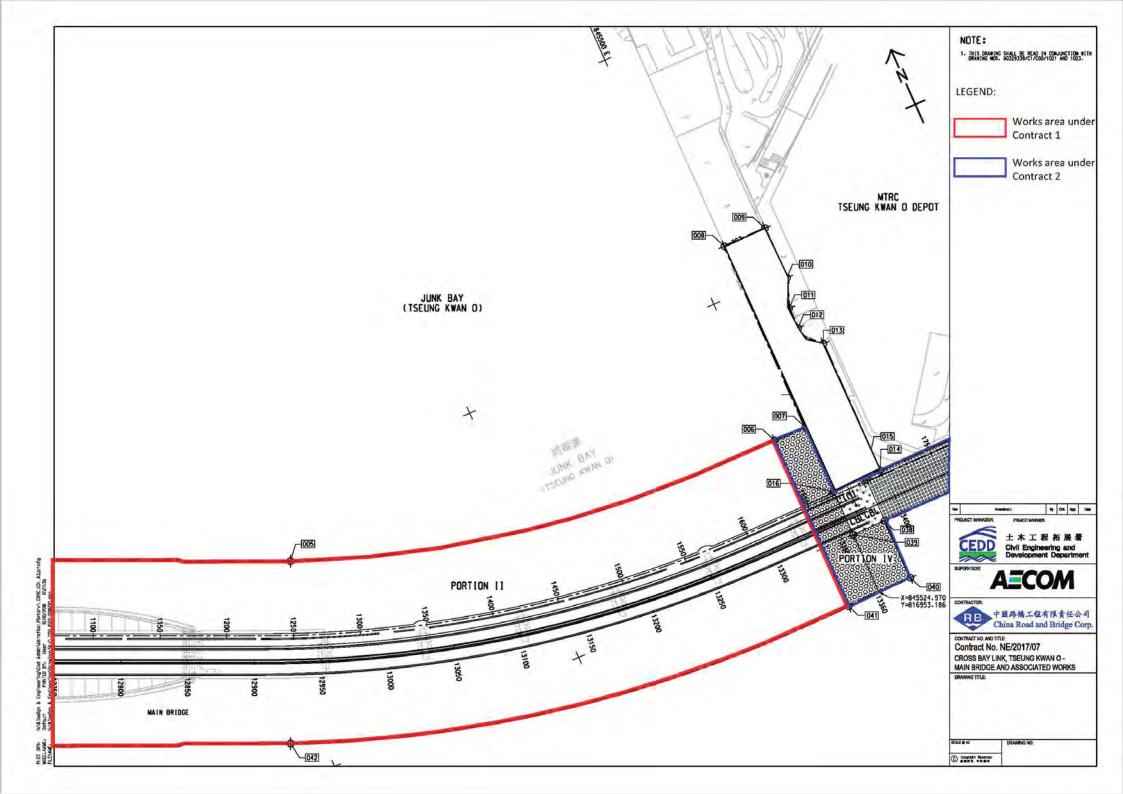


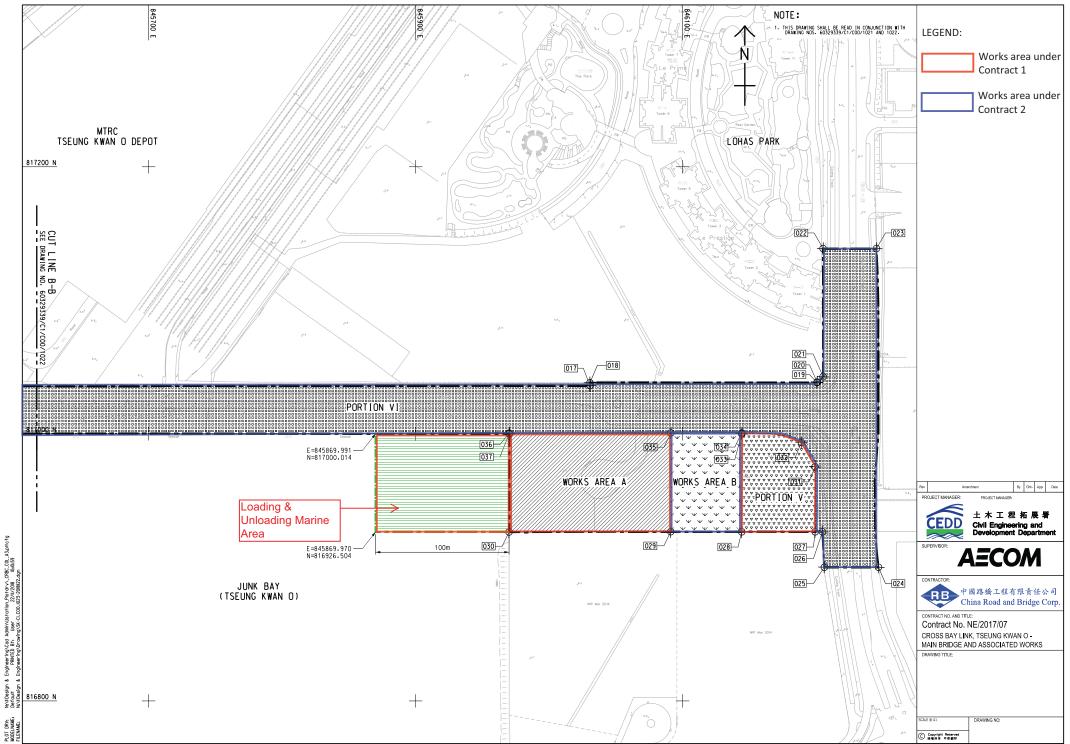
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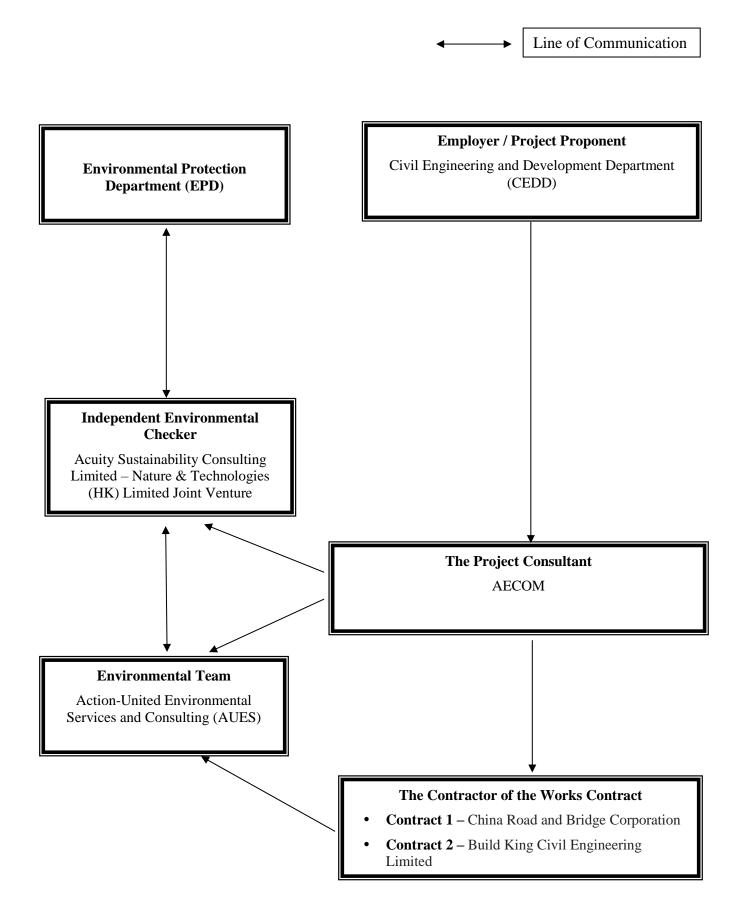


Appendix B

Project Organization Chart & Contact Details of Key Personnel for the Project



Project Organization Structure





Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Project Proponent	CK Lam	2301 1398	2714 5174
CEDD	Project Proponent	Sheri Leung	2301 1398	2714 5174
AECOM	Senior Resident Engineer	Jackie Chan	3595 8045	3596 6118
AECOM	Resident Engineer	Kingman Chan	3595 8045	3596 6118
ASC – N&T JV	Independent Environmental Checker	Kevin Li	2698 6833	2698 9383
ASC – N&T JV	Senior Environmental Consultant	Tandy Tse	2698 6833	2698 9383
AUES	Environmental Team Leader	T. W. Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Ben Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Martin Li	2959 6059	2959 6079
CRBC	Site Agent	Raymond Suen	9779 8871	2283 1689
CRBC	Environmental Officer	Sedo Sze	9724 6254	2283 1689
CRBC	Environmental Supervisor	Janice Poon	9148 5688	2283 1689
Build King	Site Agent	Stephen Leung	9071 7657	NA
Build King	Environmental Officer	Louisa Fung	9271 5370	NA
Build King	Environmental Supervisor	Kenneth Hung	6170 9304	NA

Contact Details of Key Personnel for the Project

Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Project Consultant) – AECOM Asia Co. Ltd.

ASC – N&T JV (IEC) – Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture

AUES (ET) – Action-United Environmental Services & Consulting

CRBC (the Main Contractor of the Works Contract 1) – China Road and Bridge Corporation

Build King (the Main Contractor of the Works Contract 2) - Build King Civil Engineering Limited



Appendix C

3-Month Rolling Construction Programme



Contract 1

Contract No. NE/2017/07 Cross Bay Link, Tseng Kwan O - Main Bridge and Associated Works

Activity	D	Activity Name	Original Duration	Remaining	Start	Finish	Physical %	February 2023		March 2023
				Duration			Complete 22 29		26 05	12
(Cross Bay Link,Tse	ung Kwan O Main Bridge and Associated Works	369	17	08-Jan-22 A	25-Feb-23			Cross Bay Link, Tseung	g Kwan O Main Bridge
	Section 2 of Works	-All Works within Portion II,III,IV and VI	369	17	08-Jan-22 A	25-Feb-23			Section 2 of Works-All	Works within Portion
	CBL Main Bridge a	and Marine Viaduct	214	15	08-Jan-22 A	25-Feb-23			CBL Main Bridge and	Marine Viaduct
	Steel Bridge		214	15	08-Jan-22 A	25-Feb-23			Steel Bridge	
	Welding & Painting	g Works	214	15	08-Jan-22 A	25-Feb-23			Welding & Painting W	orks
	Painting of the R	ting Weld	214	15	08-Jan-22 A	25-Feb-23			Painting of the Ring W	eld
	S2-SB2072	Top coating of the steel deck (east span) (NCE No.181)	75	1	08-Jan-22 A	09-Feb-23	90%	Top coating of the steel deck (ea	st span) (NCE No.181)	
	S2-SB2076	Top coating of the steel deck (west span) (NCE No.181)	75	6	08-Jan-22 A	15-Feb-23	90%	Top coating of the st	eel deck (west span) (N	ICE No.181)
	S2-SB2080	Top coating of the steel deck (main span) (NCE No.181)	98	15	08-Jan-22 A	25-Feb-23	80%		Top coating of the steel	deck (main span) (NC
	S2-SB2105	Painting repair of the arch rib (External) (south rib)	25	0	06-Sep-22 A	07-Feb-23 A	100%	Painting repair of the arch rib (Exter	nal) (south rib)	
	S2-SB2300	Painting repair of the arch rib (External) (north rib)	20	0	02-Aug-22 A	07-Feb-23 A	100%	Painting repair of the arch rib (Exter	nal) (north rib)	
	E&M Works		156	1	03-Oct-22 A	09-Feb-23		E&M Works		
	E&M Works in Port	tion II,III & IV	156	1	03-Oct-22 A	09-Feb-23		 E&M Works in Portion II,III & 	V	
	Pier Head Lighting	Installation at Piers W5-EA	30		03-Oct-22 A	09-Feb-23		 Pier Head Lighting Installation a 	Piers W5-EA	
	S2-EM3040	Pier Head Lighting Installation at Piers W2-W5 (potiential PMI)	30	1	03-Oct-22 A	09-Feb-23	0%	Pier Head Lighting Installation a	Piers W2-W5 (potient	ial PMI)
	S2-EM3060	Pier Head Lighting Installation at Piers E2-EA (potiential PMI)	30	1	03-Oct-22 A	09-Feb-23	0%	Pier Head Lighting Installation a	Piers E2-EA (potientia	l PMI)
	S2-EM3080	Pier Head Lighting Installation at Piers W1-E1 (potiential PMI)	30	1	03-Oct-22 A	09-Feb-23	0%	Pier Head Lighting Installation a	Piers W1-E1 (potienti	al PMI)
	Fixed Red Lighting	g Installation at Piers W1-E1	156	0	03-Oct-22 A	07-Feb-23 A		Fixed Red Lighting Installation at Pi	ers W1-E1	
	S2-EM3100	Installation of Pier Head Lighting	30	0	03-Oct-22 A	06-Feb-23 A	100%	Installation of Pier Head Lighting	- - -	
	S2-EM3120	Testing & Commissioning	1	0	07-Feb-23 A	07-Feb-23 A	100%	 Testing & Commissioning 		
			I				:		1	

Actual Work

 Milestone Summary

19 26	02		April 2 09	023 16		23		30	May 2023	
19 26 ge and Associated W	orks									
II,III,IV and VI										
E No.181)										
	:						:			
Date		Revis	ion			hecke	ed.	Α	pprove	ed
Date	BMRP (M	Revis ar 23 -	ion Jun 23		C	hecke	ed	Α	pprove	ed



Contract 2

	Activity Name	Original A Duration Dura	ctual Rema ation Dur	aining Calendai ration	r Start	Finish	Late Start Late Finish	Total TR Float	A Activity % Complete		ov Dec	lan Ea	o Mar	Apr	lou hu	2022	Aug	Con	0.4	Nou	Dee	lon 1	Eab M	2	2023 May	hup	_
2017/08 Programme	Undate (Nov 2021)	1399	899	504	31-Oct-18 A	25-Jul-23	19-Jul-21 30-Sep-23	58			ov Dec	Jan Fe	o Mar	Apr IV	ay Ju	in Jui	Aug	Sep	υα	NOV	Dec	Jan F	•eb ive	Jr Apr	May	Jun	JL
roject Key Dates		1399	488	484	31-Oct-18 A	25-Jul-23	27-Aug-21 30-Sep-23	58					_				_					<u> </u>	—	—		\vdash	+
SD1000	Starting Date	0	0	0 017/08(7	31-Oct-18 A		27-Aug-21	0	100%																		
Access Dates		243	243	0 017/08(7	01-Nov-18 A	02-Jul-197	27-Aug-21 27-Aug-21																				
POS1010	Possession of Portion I	0	0		02-Jul-19 A		27-Aug-21	0	100%									<u> </u>									<u> </u>
POS1020	Possession of Portion II	0	0		01-Nov-18 A		27-Aug-21	0	100%											1							
POS1030	Possession of Portion III	0	0		01-Nov-18 A		27-Aug-21	0	100%																	1 /	
POS1040	Possession of Portion IV	0	0		01-Nov-18 A		27-Aug-21	0	100%																	1 /	
	er Revised Contract Key Dates under CEs	1070	0		25-Jun-20 A	30-May-23	18-Mar-22 30-Sep-23	123	1000/																	🔻 30-May	¥-23
PC1010	Planned Completion of Key Date 1	0	0	0 017/08(7		25-Jun-20	30-Sep-23	0	100%									b								ļ	÷
PC1020	Planned Completion of Key Date 2 Planned Completion of Key Date 3	0	0	0 017/08(7		19-May-22	18-Mar-22	-62 0 -76 0	0%								tion of Key ned Comp										
PC1030 PC1040	Planned Completion of Key Late 3 Planned Completion of Sectional Completion S1	0	0	0 017/08(7		29-Jun-22 24-Jun-22	14-Apr-22 30-Mar-22	-76 0	0%								ed Comple			anlation	64						
PC1040 PC1050	Planned Completion of Sectional Completion S1 Planned Completion of Sectional Completion S2	0	0	0 017/08(7	,	24-Jun-22 29-Jun-22	30-ivar-22 14-Apr-22	-86 0	0%								ined Comple									1 1	
PC1060	Planned Completion of Sectional Completion S2 Planned Completion of Sectional Completion S3	0	0	0 017/08(7	,	30-May-22	14-Apr-22	-46 0	0%								pletion of \$				102,						
PC1070	Planned Completion of Sectional Completion S4	0	0	0 017/08(7	,	30-May-22 30-May-23	14-Apr-23	-46 0	0%			<u>}</u>			+			Jectional	ompletion							Planne	ed (
PC1080	Planned Completion of Sectional Completion 55	0	0	0 017/08(7	,	18-Jun-22	14-Apr-22	-64 0	0%							Planner	d Completic	n of Secti	onal Comp	letion St	5				-+7	1	1
	er Possible Contract Key Dates under CEs	1070	0		25-Jun-20 A	30-May-23		123	- /*							1					-,	<u> </u>	<u> </u>	<u> </u>	÷	🕈 30-May	w-23
PCP1010	Planned Completion of Key Date 1	0	0	0 017/08(7		25-Jun-20	30-Sep-23	0	100%																	1 7	1
PCP1020	Planned Completion of Key Date 2	0	0	0 017/08(7		19-May-22	18-Mar-22	-62 0	0%						Plann	ed Comple	tion of Key	Date 2,									
PCP1030	Planned Completion of Key Date 3	0	0	0 017/08(7	'	25-Jul-22	25-Jul-22	-1 0	0%			[Planned	Complet	on of Key I	Date 3,						· · · · · · · · · · · · · · · · · · ·	ſ
PCP1040	Planned Completion of Sectional Completion S1	0	0	0 017/08(7	'	24-Jun-22	04-Apr-22	-82 0	0%							Plar n	ed Comple	tion of Se	tional Con	npletion	S1,					1 1	
PCP1050	Planned Completion of Sectional Completion S2	0	0	0 017/08(7	'	25-Jul-22	25-Jul-22	-1 0	0%								Planned	Completi	on of Secti	ional Co	mpletion S	2,					
PCP1060	Planned Completion of Sectional Completion S3	0	0	0 017/08(7	'	30-May-22	25-Jul-22	56 0	0%						** 11	r ned Con	pletion of \$	Sectional C	ompletion	S3,							
PCP1070	Planned Completion of Sectional Completion S4	0	0	0 017/08(7		30-May-23	25-Jul-23	56 0	0%									L							-	🔶 Planne	d (
PCP1080	Planned Completion of Sectional Completion S5	0	0	0 017/08(7		18-Jun-22	25-Jul-22	37 0	0%		1		1111			Planne	d Completic	n of Secti	pnal Comp	letion S	5,					1	ſ
	tes and Sectional Completion Dates under CEs	1024	0	392 017/08(7		14-Apr-23	18-Mar-22 30-Sep-23	169									-		-	_	_	—	—		14-Apr-23, F	Revised C	\$or
CD1010	S1 - Completion of All Works within Portion I	0	0	0 017/08(7		30-Mar-22*	30-Mar-22	0 0	0%				•	S1 - Comp	letion of A	I Works wi	thin Portion										
CD1020	S2 - Completion of All Works within Portion II, III & IV and remainder of the W	0	0	0 017/08(7	'	14-Apr-22*	14-Apr-22	0 0	0%										V and rei	mainder	of the Wo	rks not co	overed by o	ther Sectic	uns,		
CD1030	S3 - Completion of All Landscape Softworks	0	0	0 017/08(7	'	14-Apr-22*	14-Apr-22	0 0	0%					🗢 S3-0	ompletion	of All Land	iscape Soft	works,								<u> </u>	Ļ
CD1040	S4 - Completion of Establishement Works	0	0	0 017/08(7	·	14-Apr-23*	14-Apr-23	0 0	0%							. 9				_				•••	S4 - Comple	ation of E	sta
CD1050	S5 - Completion of Preservation and Protection of Existing Trees	0	0	0 017/08(7		14-Apr-22*	14-Apr-22	0 0	0%					\Rightarrow S5 - O	omplétion	of Preserv	ation and F	otection	of Exisitng	Trees,							
KD0001	Key Date 1 - Completion of Eastern Abutment in Portion II	0	0	0 017/08(7		25-Jun-20	30-Sep-23	0	100%																		
KD0002	Key Date 2 - Completion of Works within Portion I,II,II & IV for TCSS of all E&	0	0	0 017/08(7		18-Mar-22*	18-Mar-22	0 0	0%				T Ke	/ Date 2 - D	ompletion	of Works	within Porti	on tiitii & i	v for ICSS	oralite	SIM Works,	Street Lig	ghting, T&C	÷.		/	
KD0003	Key Date 3 - Completion of All Works within Portion I, II, III & N	0	0	0 017/08(7	25. Jun-20 A	14-Apr-22* 25-Jul-23	14-Apr-22 18-Mar-22 30-Sep-23	0 0	0%					 Key Lis 	ate 3 - Co	r pletion p	All Works	within Port	ion I, II, III-8	IV,						<u></u>	÷
Possible Key Dates and S KDP0001	ectional Completion Dates under CEs Key Date 1 - Completion of Eastern Abutment in Portion II	0	0	0 017/08(7	23-3011-20 A	25-Jun-20	30-Sep-23	0	100%															_			T
KDP0001	Key Date 2 - Completion of Works within Portion I.II.III & IV for TCSS of all E&	0	0	0 017/08(7	,	18-Mar-22*	18-Mar-22	0 0	0%					(Data 2		f Words	uithin Dorti		1 for TOPS	of all B	e M Mordio	Street Li	ghting, T&C	~			
KDP0003	Key Date 3 - Completion of All Works within Portion I, II, II & V	0	0	0 017/08(7	,	25-Jul-22*	25-Jul-22	0 0	0%				•		OIIIDIBUDI		 Key Dat 							<u>`</u>			
SCP0001	S1 - Completion of All Works within Portion I	0	0	0 017/08(7	,	04-Apr-22*	04-Apr-22	0 0	0%					S1 - Com	pletion of	All Works	within Portio	di l								1 /	
SCP0002	S2 - Completion of All Works within Portion II, III & IV and remainder of the W	0	0	0 017/08(7		25-Jul-22*	25-Jul-22	0 0	0%					01 001			 \$2 - Co 	mpletion of	f All Works	within P	ortion II III	& M and	remainder	of the Wor	ks not cover	end by o	the
SCP0003	S3 - Completion of All Landscape Softworks	0	0	0 017/08/7	,	25-Jul-22*	25-Jul-22	0 0	0%								 \$3 - Co 										1
SCP0004	S4 - Completion of Establishement Works	0	0	0 017/08(7	,	25-Jul-23*	25-Jul-23	0 0	0%																		
SCP0005	S5 - Completion of Preservation and Protection of Exisitng Trees	0	0	0 017/08(7	,	25-Jul-22*	25-Jul-22	0 0	0%								🔶 S5 - Co	mpletion d	f Preservat	tion and	Protection	of Exisitr	ng Trees,			1 /	
Access requirement for A	coeleration	75	0	75	30-Nov-21	04-Mar-22	15-Dec-21 18-Mar-22	12			-		04-Mar	22, Access	requirem	nt for Aco											
HO1010	Complete all neccessary works for E&M and TCSS installation	0	0	0 017/08(7	,	04-Mar-22	18-Mar-22	14 0	0%				Comple	te all nece	es ary wo	ks for E8N	and TCSS	installatio	n,	·····						1	Ť
HO1020	Provision of vehicular access to the contractor of C1	0	0	0 017/08(6	6	30-Nov-21	15-Dec-21	13	0%		Provisi	on of vehicula	access to the	contracto	of C1												
sign and Method S	tatement, Material Submissions	1242	1104	138 017/08(7	31-Oct-18 A	25-Mar-22	19-Jul-21 30-Sep-23	554						5-Mar-22, C			statement,	Material Si	ubmissions							1 /	
Contractor's Design		1223	850	63 017/08(7	12-Jan-19 A	25-Mar-22	27-Aug-21 26-May-22	62		_			- 2	5-Mar-22, 0	Contractor	s Design											
AIP Submission		247	208	0 017/08(7	/ 12-Jan-19 A	07-Aug-15	27-Aug-21 27-Aug-21											1									
AD1010	Alternative Designs - Prepare AIP Submission	14	33	0 017/08(7	' 12-Jan-19 A	13-Feb-19	27-Aug-21 27-Aug-21	0	100%											1							1
AD1020	Alternative Designs - Review and Comment of AIP by PM	21	19			04-Mar-19	27-Aug-21 27-Aug-21	0	100%																	1 1	
AD1110	Alternative Designs - Review and Comment of AIP by HyD	21	66		05-Mar-19 A	09-May-19	27-Aug-21 27-Aug-21	0	100%																	1 1	
AD1190	Alternative Designs - Prepare AIP Submission (Rev.A)	14	33		10-May-19 A	11-Jun-19	27-Aug-21 27-Aug-21	0	100%																	1	
AD1200	Alternative Designs - Review and Comment of AIP by PM	21	24			05-Jul-19		0	100%				444					ļ								Ļ)	÷
AD1210	Alternative Designs - Review and Comment of AIP by HyD	21	33	0 017/08(7	06-Jul-19 A	U7-Aug-19	27-Aug-21 27-Aug-21	0	100%																		
DDA Submission	trough	381	392	0 017/08(7	29-Jan-19 A	24-Feb-20	27-Aug-21 27-Sep-21																				
AD1030	Alternative Designs - Prepare DDA Submission to Relevant Authorities (Eleva	220	50	0 017/08/7	29-Jan-19 A 29-Jan-19 A	19-Mar-19	27-Aug-21 27-Aug-21 27-Aug-21 27-Aug-21	0	100%																		
AD1035	Alternative Designs - Review and Comment of DDA (Elevated Deck and U-trc	7	1					0	100%				11													1	
AD1036	Alternative Designs - Prepare DDA Submission (Elevated Deck and U-trough	16	20			09-Apr-19	27-Aug-21 27-Aug-21	0	100%		1111		++			1		†								·	÷
AD1037	Alternative Designs - Review and Comment of DDA Submission (Rev.A)	7	1					0	100%				11													1 1	
AD1038	Alternative Designs - Prepare DDA Submission (Elevated Deck and U-trough	14	9	0 017/08(7	10-Apr-19 A	18-Apr-19	27-Aug-21 27-Aug-21	0	100%		1 11										1					1 1	
AD1039	Alternative Designs - Review and Acceptance of DDA Submission (Rev.B)	7	1	0 017/08(7	18-Apr-19 A		27-Aug-21 27-Aug-21	0	100%				11 1													1 1	
Response to CEDD	- Port Works		120	0 017/08(7	19-Apr-19 A		27-Aug-21 27-Aug-21																				1
AD1230	Alternative Designs - Review and Comment of DDA (ED and UT) (21D for CE	21	56	0 017/08(7	' 19-Apr-19 A	13-Jun-19	27-Aug-21 27-Aug-21	0	100%			1	11		I ITI										T	1 7	1
AD1250	Alternative Designs - Prepare DDA Submission (ED & UT, Response to CEDI	21	11				27-Aug-21 27-Aug-21	0	100%																	1 1	
AD1270	Alternative Designs - Review and Comment of DDA (ED&UT, 21D from CEDE	21	25				27-Aug-21 27-Aug-21	0	100%																	1 1	
AD1300	Alternative Designs - Prepare DDA Submission (ED&UT, Reponse to CEDD)	21	6				27-Aug-21 27-Aug-21	0																			
AD1310	Alternative Designs - Review and Acceptance of DDA (ED&UT, 21D from CEL	21	22				27-Aug-21 27-Aug-21	0	100%			ļļ	444			- ų.		Ļ	l.							Ļ)	<u>∔</u>
Response to HyD - I			104				27-Aug-21 27-Aug-21		100																		
AD1040	Alternative Designs - Review and Comment of DDA (ED and UT) (21D for Hyl	21	22	0 017/08(7	19-Apr-19 A	10-May-19	27-Aug-21 27-Aug-21	0	100%				11 1	1		1.8	1							<u> </u>		<u> </u>	<u>_</u>
																Data				Revis	ion			Chi	ockod	A.	-
 Actual Level of Et 	ffort Milestone					Contra	ct No.: NE/2017	//08			-				6.5	Date		4.1 =							ecked	Ap	hb
	summary summary	工程拓	日里				Link, Tseung k			1					08-	Mar-21	Mor	nthly Pro	ogramm	ne Upc	tate (Ma	ar 2021)	TL		StL	
Actual Work																											
Actual Work						•	. 0				-				08-1	May-21	Mor	nthy Pro	gramm	e Upd	ate (Ma	y 2021)	CkT		StL	
Actual WorkRemaining Work	CEDD civil	Engineerin lopment D	ng and			•	and Associated				D.	uilo		-	08-	May-21 Jul-21			ogramm ogramm					CkT CKT		StL StL	_

017/08 Monthly Pr	Programme Update	Original Actual	Contr Remaining Calence	act No.: NE/2017/	08 - Cross Bay Li	-	an U - Ro	ad D9 a	and Associated Works		2022					[2023	
	Politike Politike	Duration Duration			Late Start Late	Float	Complete C	Dot No	ov Dec Jan Feb Mar Apr	May J	un J	ul Aug	Sep C	Oct No	ov Dec	Jan Feb	Mar Apr	May	Jun
NCE130	NCE130 - Extra Length of PBSH at Portion I	0 0	D 0 017/08	(7 11-Sep-20 A	30-Sep-23	0	100%												
NCE131	NCE131 - Extra Length of PBSH at Portion II	0 0		(7 11-Sep-20 A	30-Sep-23	0	100%												
NCE132	NCE132 - Additional Works for Left-in Steel Casing for PBSH at Cycle Track F	0 0		(7 11-Sep-20 A	30-Sep-23	0	100% 0		p20A										
NCE133	NCE133 - Additional Works for Left-in Steel Casing for PBSH at Lift and Stair	0 0		(7 11-Sep-20 A	30-Sep-23	0	100%02	20, 11-Sep	p 20 /4										
NCE134	NCE134 - Additional Works for Left-in Steel Casing for PBSH at Wan O Road	0 0		(7 11-Sep-20 A	30-Sep-23	0	100% A												
NCE135	NCE135 - Additional Point Load Test for Proof Drill Hole no. PC9,10-PD1	0 0		(7 16-Sep-20 A	30-Sep-23	0	100%												
NCE136	NCE136 - Indement Weather for the Period of 9 July 2020 to 8 August 2020	0 0		(7 16-Sep-20 A	30-Sep-23	0	100%												
NCE137	NCE137 - Special Arrangement for Concrete Testing Services from the Public	0 0		(7 08-Oct-20 A	30-Sep-23	0	100%0	A				1							
NCE138	NCE138 - Inclement Weather for the Period of 9 August 2020 to 8 Septemb	0 0		(7 16-Oct-20 A	30-Sep-23	0	100%												
NCE139 NCE140	NCE139 - Works affected by the Tropical Cyclone Warning Signal No. No. 8 ' NCE140 - Uncharted Steel Materials Found at Pre-Bored Socketed H-Pile Nc	0 0		(7 16-Oct-20 A (7 28-Oct-20 A	30-Sep-23 30-Sep-23	0	100% 1 100% a												
NCE140		0 0		(7 28-Oct-20 A	30-Sep-23	0	100%a												
NCE141	NCE141 - Uncharted Steel Materials Found at Pre-Bored Socketed H-Pile Nc NCE142 - Extra Length of Dra Reard Socketed H Diles at Life and Stairages in	0 0		(7 28-Oct-20 A (7 28-Oct-20 A	30-Sep-23	0	100% a	ia, 28-UCF	418										
NCE142 NCE143	NCE142 - Extra Length of Pre-Bored Socketed H-Piles at Lift and Staircase i NCE143 - Additional Works for Left-in Steel Casing for 610mm PBSH at Lift :	0 0		(7 28-Oct-20 A	30-Sep-23	0		0, 28 Oct-2											
NCE144		0 0		(7 28-Oct-20 A	30-Sep-23	0		0, 28001-2 3-Oct-20 A											
NCE145	NCE144 - Additional Works for Left-in Steel Casing for 610mm PBSH at War NCE145 - Works affected by the Tropical Cyclone Warning Signal No. No. 8	0 0				0		2020.30-0											
NCE145		0 0		(7 30-Oct-20 A (7 05-Nov-20 A	30-Sep-23 30-Sep-23	0	100%	2020.30-0											
NCE148	NCE146 - Indement Weather for the Period of 9 September 2020 to 8 Octol	0 0		(7 24-Nov-20 A	30-Sep-23	0	100%2	020 24 14											
NCE149	NCE148 - Additional Works for Left-in Steel Casing for 610mm PBSH at War	0 0		(7 25-Nov-20 A	30-Sep-23	0	100%2												
	NCE149 - Extra Length of Pre-Bored Socketed H-Piles at Wan O Road in Pc	0 0				0													
NCE150 NCE151	NCE150 - Indement Weather for the Period of 9 October 2020 to 8 Novemb	0 0		(7 08-Dec-20 A	30-Sep-23 30-Sep-23	0	100% E		Road in Nov 2020, 09-Feb-21 A										
NCE152	NCE151 - Additional Works for Left-in Steel Casing for 610mm PBSH at War NCE152 - Linexpected Obstruction to Manhole po. SMH011 at Poad D9 in P	0 0		(7 09-Feb-21 A (7 07-Jan-21 A	30-Sep-23	0	100%a		n21 A	╆╬╍┿╇						-			
	NCE152 - Unexpected Obstruction to Manhole no. SMH011 at Road D9 in P	0 0				0			021.07-Jan-21 A										
NCE153 NCE154	NCE153 - Extra Works for Carry Out Laboratory Testings for Gully Formers up NCE154 - Lineyroacted Obstruction to Manhola po. SMI-012 at Poad D9 in P	0 0		(7 07-Jan-21 A (7 18-Jan-21 A	30-Sep-23 30-Sep-23	0			3-Jan-21 A										
NCE154 NCE155	NCE154 - Unexpected Obstruction to Manhole no. SMH012 at Road D9 in P NCE155 - Works affected by COVID-19 - Additional Cost for Supply of Agare	0 0		(7 18-Jan-21 A (7 18-Jan-21 A	30-Sep-23 30-Sep-23	0	100% o		-Jan-21 A Couring CNY, 18-Jan-21 A										
NCE155	NCE155 - Works affected by COVID-19 - Additional Cost for Supply of Aggrey NCE155 - Movement Joint Construction at 2nd Partice of Abutment 2P	0 0		(7 18-Jan-21 A (7 18-Jan-21 A	30-Sep-23	0	100% ga		A CONT, ID-Gall-21 A										
NCE156 NCE157	NCE156 - Movement Joint Construction at 2nd Portion of Abutment 2B	0 0				0	100% a		suts for General Fill, 18-Jan-21 A	╊╬╍┿╇						<u> </u>			
NCE157 NCE158	NCE157 - Delay in Backfilling Works along At-Grade Road due to Repeated NCE158 - Coeffict between Evicting Manhole No. SMH/046896 and Die Car	0 0		(7 18-Jan-21 A (7 18-Jan-21 A	30-Sep-23 30-Sep-23	0			at Elevated Deck, 18-Jan-21 A										
	NCE158 - Conflict between Existing Manhole No. SMH4046896 and Pile Car NCE159 - Delay in Using Imported General Fill from ND/2018/01 Due to Una	0 0		(7 18-Jan-21 A (7 20-Jan-21 A	30-Sep-23 30-Sep-23	0			s Result of Sulphate Content, 20-Jan-21 A										
NCE159		0 0		(7 20-Jan-21 A (7 05-Feb-21 A		0		7. 05 Feb											
NCE160	NCE160 - Additional Point Load Test for Proof Drill Hole no. PD-1 at PC77	0 0			30-Sep-23	0													
VCE161	NCE161 - Additional Material Testing for Steel Works of Semi-Enclosure Nois			(7 01-Mar-21 A	30-Sep-23		100%10	sosure noi	ise Barriers after Hot Bend Treatment, 01-Mar-21 A Instruction Sites, 05-Mar-21 A							ļ			
VCE162	NCE162- Compulsory Valid Negative COVID-19 Test Result for Entry of Cons	0 0		(7 05-Mar-21 A	30-Sep-23	0	100%E	ntry of Co	e Noise Barrier at Elevated Deck, 19-Mar-21 A										
NCE163	NCE163 - Revision of Spacing of Movement Joints for Semi-Enclosure Noise	0 0		(6 19-Mar-21 A	30-Sep-23		100% h	i-Enclosure	e volse Barner at Elevated Deck, 19-Mar-21 A 21, 29: Mar-21 A										
NCE164	NCE164 - Inclement Weather Period of 9 Feb 2021 to 8 March 2021	0 0		(6 29-Mar-21 A	30-Sep-23														
NCE165	NCE165 - Unexpected CLP Power Cables at XYZ Junction near Manhole no	0 0		(6 08-Apr-21 A	30-Sep-23		100% n		r Manhole no. SMH009, 08-Apr-21 A										
NCE166	NCE166 - Delay in Procurement of Watermain Pipes due to Revised Waterm	0 0		(6 08-Apr-21 A	30-Sep-23		100% d		vised Watermain Layout and Lonitudinal Profile, 08	Apr 21 A									
NCE167	NCE167 - Ground Settlement Issue at Portion I	0 0		(6 08-Apr-21 A	30-Sep-23		100% p		.∭8L.J. I. D. I I				1						
NCE168	NCE168 - Additional Coating fo Sub-Frame of the Semi-Enclosure Noise Bar	0 0		(6 19-Apr-21 A	30-Sep-23				losure Noise Barriers, 19-Apr-21 A										
NCE169	NCE169 - Lighting works for Traffic Sign	0 0		(6 29-Apr-21 A	30-Sep-23		100% or												
NCE170	NCE170 - Revised Landscape Softworks and Hardworks	0 0		(6 30-Apr-21 A	30-Sep-23		100% H		31 Apr 21 A										
NCE171	NCE171 - Extra Works for Carry Out Laboratory Testings for Precast Concrete	0 0		(6 03-Jun-21 A	30-Sep-23		100% L		/ lestings for Precast Concrete Pipes, 03-Jun-21 A							ļļ			
NCE172	NCE172 - Extra Works for Carry Out Laboratory testings for Impact Resistant	0 0		(6 26-May-21 A	30-Sep-23		100% at		estings for Impact Resistance Test and Heat Reversi	on Test of I	FVG Pip	is, 26-May-21 A							
NCE173	NCE173 - Electric Suspension for Semi-Enclosure Noise Barrier Factory	0 0		(6 28-Jun-21 A	30-Sep-23			for Semi-	Endosure Nolse Barrier Factory, 28-Jun-21 A										
NCE174	NCE174 - Inclement Weather for the Period of 9 May 2021 to 8 June 2021	0 0		(6 29-Jun-21 A	30-Sep-23	ep-23 562	100% er		enord of 9 May 2021 to 8 June 2021, 29 Jun-21 A										
rly Warning (EW				10-Dec-18 A 08-Nov				- N '	08-Noi-21, Early Warning (EW)										
EW001	Temporary Discharges from LOHAS Park Development MTRC Contractors In	0 0				·	100%												
EW002	Construction Debris and Domestic Waste Left Behind by MTRC's Contractors	0 0					100%												
EW003	Maintenance of EVA at Portion II and II for MTRC's Depot along Road D9	0 0					100%												
EW004	Diversion of Existing Fire Service Main along D9 Road upon Possession of P	0 0					100%						1						
EW005	Severe Cracks and Abnormal Movement Observed on the Existing Road D9	0 0					100%												
EW006	Uncharted Utilities (Hong Kong Broadband and CLP) identified at Road D9, 1	0 0				ep-23 0	100%			.									
EW007	Additional Works for Determination of Bond Properety of Steel Reinforcing B	0 0					100%												
EW008	Additional Works for Laying Concrete Blocks on Top of the Existing Seawall t	0 0					100%												
EW009	Existing Public Lighting Columns Removal by Others	0 0				-	100%												
EW010	Unexpeced CLP Cables Identified at Wan O Road	0 0					100%												
W012	Obstruction of Construction of Elevated Deck and U-Trough by Unexpected (0 0		•			100%		-##########	┟╢╌┼┥	-								
EW014	Unregistered Tree No. A0001 found at Wan O Road and obstruct the UU div	0 0					100%												
EW015	Constraints on TTA Scheme for Full Enclosure in Wan O Road	0 0				ep-23 0	100%												
EW016	Accumiation of Settlement Values with the Existing Data	0 0					100%												
EW017	Additional Works for Disposal of Unsuitable Materials to NENT in Lieu of TKC	0 0				ep-23 0	100%												
EW018	Unexpected Traxcomm Cable Ducts at Portion I	0 0					100%		-################	↓ ↓ ↓	.								
EW019	Obstruction of Construction of Elevated Deck and U-Trough by Unexpected (0 0					100%												
EW023	Extra Length of Bored Pile No. PL131, 132, 133, 107, 110, 113, 149, 152	0 0					100%												
EW024	Unexpected WTT and HKT Ducts Identified at Wan O Road	0 0					100%												
W025	Uncertain Information of the Existing DN1800 drainage Pipe	0 0		-			100%												
W026	Delay in Response from HyD on Submission of Alternative Foundation desig	0 0		· · · ·			100%			14-44									
W027	Maintenance of EVA at Portion I for MTRC's Depot	0 0				ep-23 0	100%												
W028	Unexpected Gas Main at Extent of Portion I	0 0				ep-23 0	100%												
EW029	Discrepancy of Finish Ground Level in Portion I	0 0				ep-23 0	100%												
EW030	Insufficiency of Information for Construction of Drainage works in U-Trough in	0 0				ep-23 0	100%												
	Potential of Excessive Concrete Loss at Bored Piles No. PL132, PL133, P6,	0 0				ep-23 0	100%			 	.								
EW031	Extra Length of Pre-Bored Socketed H-Pile No. UP06, 11, 16, 21, 26, 31-38,	0 0	0 0 017/08	(7 09-Sep	-19 30-Si	ep-23 0	100%												
EW031 EW032											D :			-					,
	1					01 = 100				1	Date	1		Re	levision		I Ch	ecked	Appr
EW032	of Effort Milestone		- CT - 1	Con	tract No.: NE/2	017/08													
Actual Level o		工程作品	-		tract No.: NE/2			1		08-	Mar-21	Month	ly Progr		Update (N	/lar 2021)	TL		StL
Actual Level o Actual Work	www.summary constant	工程拓展			tract No.: NE/2 ay Link, Tseun			1			Mar-21			ramme I	Update (N		TL	s	StL
Actual Level o	vork summary CEDD 生木	Engineering	and	Cross B		ng Kwan O		1	Duild		Mar-21 May-2	1 Month	y Progra	ramme I amme L	Update (N Update (N	lay 2021)	TL CkT	s	StL StL
Actual Level o Actual Work	Vork summary CEDD 土木		and	Cross B	ay Link, Tseun	ng Kwan O			Build King		Mar-21	1 Month Month	iy Progra ily Progr	ramme I amme L	Update (N Update (N Update (J	lay 2021)	TL	s	5tL 5tL 5tL

	Activity Name	Original	Actual Remainin		Finish Late S	Start Late Finish Te	Total TRA Activity %								2022								2023		
		Duration	Duration Duratio	'n		F	Roat Complete	oct Nov	Dec	Jan	Feb	Mar Ap	r May	Jur	ı Jul	Aug	Sep	Oct	Nov	Dec	Jan F	eb Mar	Apr N	ay Jun	ı J
PMI037	Request for Quotation - Additional Road Marking and Traffic Sign Poles	0		0 017/08(7	03-Jan-20	30-Sep-23	0 100%																		-
PM038	Request for Quotation - Works affected by Strike Event, Riots and Blockage	0		0 017/08(7	08-Feb-20	30-Sep-23	0 100%			<u> </u>							<u> </u>								
PMI039	Request for Quotation - Enhancement Measures for TTA at Wan Po Road	0	0	0 017/08(7	08-Feb-20	30-Sep-23	0 100%																		
PMI040	Request for Quotation - Works affected by Spreading of Novel Coronavirus	0	0	0 017/08(7	13-Feb-20	30-Sep-23	0 100%			1															
PMI041	Request for Quotation - Extra Length of PBSH PC24-P1, PC25-P3, PC26-P1	0	0	0 017/08(7	20-Feb-20	30-Sep-23	0 100%																		
PMI042	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile No	0	0	0 017/08(7	20-Feb-20	30-Sep-23	0 100%																1		
PMI043	Provision of Additional Computer Equipment	0	0	0 017/08(7	26-Feb-20	30-Sep-23	0 100%			1							1						1 1		
PMI044	Request for Quotation - Revised Details of Type D Semi-enclosure Noise Bar	0	0	0 017/08(7	04-Mar-20	30-Sep-23	0 100%			++-					- 11		+							+++++++++++++++++++++++++++++++++++++++	
PMI045	Request for Quotation - Revised Drainage Details at Eastbound of D9 Road	0	0	0 017/08(7	28-Feb-20	30-Sep-23	0 100%										1						1		
PM046	Request for Quotation - Additional Works for Laying Concrete Blocks on Top	0		0 017/08(7	03-Mar-20	30-Sep-23	0 100%			1 1		1					1			1			1 1		1
PMI047	Laying of Cable Duct and Earthing Conductor at Portion II	0		0 017/08(7	10-Mar-20	30-Sep-23	0 100%																		
		0																					1		
PMI048	Request for Quotation - Revised the Extent and Details of the Stem Wall for	0		0 017/08(7	13-Mar-20	30-Sep-23	0 100%										L								
PMI049	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile	0	0	0 017/08(7	16-Mar-20	30-Sep-23	0 100%			1 1							1 1	1 1			1		1 1		
PMI051	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile	0	0	0 017/08(7	22-Apr-20	30-Sep-23	0 100%																		
PMI052	Request for Quotation - Revised Drainage Details at Portion I and Western P	0	0	0 017/08(7	25-Apr-20	30-Sep-23	0 100%			1															
PMI053	Request for Quotation - Uncharted Mass Concrete Conflict with Proposed PE	0	0	0 017/08(7	04-May-20	30-Sep-23	0 100%																		
PMI054	Request for Quotation - Low Noise Road Surfacing	0	0	0 017/08(7	06-May-20	30-Sep-23	0 100%																		
PMI055	Engaging a HOKLAS Laboratory for Impact Resistance Test and Heat Rever	0		0 017/08(7	06-May-20	30-Sep-23	0 100%		Hi-H	++-							+	·+	·····		·····		-++	+++++++++++++++++++++++++++++++++++++++	
	Request for Quotation - Additional E&M Facilities in the enclosed area under	0			07-May-20		0 100%			1 1							1						1		
PM056		0		0 017/08(7		30-Sep-23																			
PMI057	Request for Quotation - Extra Length of Pre-Bored Socketed H-Piles for Pile	0	0	0 017/08(7	20-May-20	30-Sep-23	0 100%			1													1 1		
PM058	Request for Quotation - Extra Length of Pre-Bored Socketed H-Piles for Pile	0	0	0 017/08(7	20-May-20	30-Sep-23	0 100%																		
PMI059	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile No. PC2	0	0	0 017/08(7	20-May-20	30-Sep-23	0 100%			1						1								1.1	
PMI060	Additional Material Testing & Concrete Coring	0	0	0 D17/08(7	08-Jun-20	30-Sep-23	0 100%			1		1					T	[]	1	1			1	T	1
PMI061	Request for Quotation - Revised Seawall Modification Works and Revision of	0	0	0 017/08(7	12-Jun-20	30-Sep-23	0 100%			1							1							1	
PMI062	Point Load Test for Proof Drilling Works of Pre-bored Socketed H-pile No. PC	0		0 017/08(7	10-Jul-20	30-Sep-23	0 100%																	11	
PMI062		0		0 017/08(7	27-Jul-201	30-Sep-23	0 100%																		
	Request for Quotation - Extra Length of Pre-Bored Socketed H-Piles	-								1							1	1		1			1	11	
PMI064	Request for Quotation - Delay in PMMA Panel Production for Noise Barrier Di	0		0 017/08(7	27-Jul-20	30-Sep-23	0 100%		H.	l.							Ļ	ļļ	į.					+	
PMI065	Engaging an Independent HOKLAS Accredited Laboratory for Testing of Sta	0		0 017/08(7	10-Aug-20	30-Sep-23	0 100%			1							1							1	
PMI066	Request for Quotation - Details for Abutment 2B	0	0	0 017/08(7	18-Aug-20	30-Sep-23	0 100%			1													1		
PMI067	Request for Quotation - Revised Fresh Water Main Layout and Details	0	0	0 017/08(7	27-Aug-20	30-Sep-23	0 100%																		
PMI068	Request for Quotation - Cancellation of Preservation and Protection of Existi	0	0	0 017/08(7	01-Sep-20	30-Sep-23	0 100%																		
PMI069	Request for Quotation - Revised Power Cable Ducting Layout and Civil Provi	0	0	0 017/08/7	02-Sep-20	30-Sep-23	0 100%			1 1		1				1	1 1				1	1	1 1		- 1
PMI070	Request for Quotation - Revised Details for Abutment 2A for the Installation c	0		0 017/08(7	10-Sep-20	30-Sep-23	0 100%		Hi-H	++-		·					+	·+	·····÷				··++	+-+	·+
PMI071		0		0 017/08(7	06-Oct-20		0 100%																1 1		
	Request for Quotation - Revised of U-Trough structure and Abutment 2B					30-Sep-23																			
PMI072	Request for Quotation - Additional Lightning Protection System for Semi-enc	0		0 017/08(7	16-Sep-20	30-Sep-23	0 100%																1		
PMI073	Removal of 5 nos. of Uncharted Trees at Wan O Road and Wan Po Road	0		0 017/08(7	16-Sep-20	30-Sep-23	0 100%			1 1		1				1	1 1				1	1	1 1		- 1
PMI074	Request for Quotation - Extra Length of PBSH No. PC72-P1 and PC79-P1 a	0	0	0 017/08(7	17-Sep-20	30-Sep-23	0 100%			1 1							1				1		1		
PMI075	Request for Quotation - Extra Length of PBSH at Lift and Staircase in Portio	0	0	0 017/08(7	17-Sep-20	30-Sep-23	0 100%			1	1														
PM076	Request for Quotation - Extra Length of PBSH at Elevated Cycle Track in Po	0	0	0 017/08(7	17-Sep-20	30-Sep-23	0 100%			1													1		
PM077	Point Load Test for Proof Drill Hole no. PC9.10-PD1	0	0	0 017/08/7	07-Oct-20	30-Sep-23	0 100%			1 1							1 1	1 1			1		1 1		
PMI078	Request for Quotation - Revised Drainage Details near Abutment 2A	0	0	0 017/08(7	16-Oct-20	30-Sep-23	0 100%																		
PMI079	Request for Quotation - Tropical Cyclone Warning Signal No. 8 on 19 August	0	0	0 017/08(7	22-Oct-20	30-Sep-23	0 100%			1															
PMI080	Engaging a HOKLAS Lab for Compression Tests of Concrete Cubes during 1	0		0 017/08(7	27-Oct-20	30-Sep-23	0 100%	20 10 20 10	N 2020.	·+·····+·		····+····				+	+	·+	·····+		····-		-++	+-+	+
	Revised Landscape Details at Wan O Road and Wan Po Road	0		0 017/08(7	27-Oct-20		0 100%	20 (0,2 0 30	y 2020,	1							1						1 1		
PMI081		-				30-Sep-23																			
PMI082	Request for Quotation - Top Level of the Concrete Blocks for the Proposed V	0	-	0 017/08(7	04-Nov-20	30-Sep-23	0 100% r	is top Portic	n 5 :														1		
PMI083	Request for Quotation - Extra Length of PBSH at Lift and Staircase in Portio	0		0 017/08(7	04-Nov-20	30-Sep-23	0 100%			1 1		1				1	1 1				1	1	1 1		
PMI084	Request for Quotation - Seawall Modification Works Along MTROL Promena:	0	0	0 017/08(7	10-Nov-20	30-Sep-23	0 100%			1 1							1				1		1 1		
PMI085	Request for Quotation - Works affected by the Tropical Cyclone Warning Sign	0	0	0 017/08(7	13-Nov-20	30-Sep-23	0 100% k	a" on 13 Oc	tober 202),		1					1					1	- T		1
PMI086	Request for Quotation - Revised the Type of Steel Vehicle Parapet and Tran	0	0	0 017/08(7	19-Nov-20	30-Sep-23	0 100% t	ne Interiace	with C1,																
PMI087	Request for Quotation - Unexpected Rock Sample Retrieved from Interface (0	0	0 017/08(7	24-Nov-20	30-Sep-23	0 100% e	no PI 104																	
PM088	Request for Quotation - Revised Design for Lift Internal Panels and Door fror	0		0 017/08(7	25-Nov-20	30-Sep-23	0 100%			1 1		1				1	1 1				1	1	1 1		- 1
		-			25-Nov-20		0 100%			1 1							1				1		1		
PM089	Request for Quotation - Revised Design for Lift Internal Panels and Door fror	0		0 017/08(7		30-Sep-23			 ;-; 						- <u>8</u>		÷		·····-					+	
PMI090	Request for Quotation - Revised Drainage Details at Westbound of Road D9	0		0 017/08(7	02-Dec-20	30-Sep-23	0 100%																		
PMI091	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile at Wan (0		0 017/08(7	04-Dec-20	30-Sep-23	0 100%			1							1						1		
PMI092	Request for Quotation - Additional Footpath Pavement Underneath Elevatec	0	0	0 017/08(7	08-Jan-21	30-Sep-23	0 100% в	ж,		1		1								1	1		1		- 1
PMI093	Request for Quotation - Revision of M.J. Detail	0	0	0 017/08(7	11-Jan-21	30-Sep-23	0 100%																1		
PMI094	Removal of Uncharted Tree Nos. A0006 and A0008 at Wan O Road and Wa	0	0	0 017/08(7	14-Jan-21	30-Sep-23	0 100%	Po Road,									1			1			1		
PMI095	Request for Quotation - Revision of Interface Structure and Associated Detai	0	0	0 D17/08(7	15-Jan-21	30-Sep-23	0 100%			1							1	[1	TT	11
PMI096	Request for Quotation - Clarification of Detail for Wall Opening	0	0	0 017/08(7	28-Jan-21	30-Sep-23	0 100%			1							1							11	
PMI097	Request for Quotation - Revision of the Extent and Detail of Concrete Profile	0		0 017/08(7	28-Jan-21	30-Sep-23	0 100% f	le Barrier																1	
PMI098	Engaging a HOKLAS Accredited Independent Laboratory for Testing of Gully	0		0 017/08(7			0 100%			huan and	11	1											1		
					03-Feb-21	30-Sep-23				buary 2021,							1	: 1					1	1.1	
PMI099	Additional R.C. Corbel and Structural Steelwork Connection for Sign Gantry of	0		0 017/08(7	09-Feb-21	30-Sep-23	0 100%			ignal at U-Tr								ļļ						.	
PMI100	Request for Quotation - Conflict between Existing Manhole No. SMH404689	0		0 017/08(7	10-Feb-21	30-Sep-23	0 100%0	46896 and	Pile Cap I	lo. PC20 at E	Elevated I	Deck,								1			1		
PMI101	Point Load Test for Proof Drill Hole no. PD-1 at PC77	0		0 017/08(7	25-Feb-21	30-Sep-23	0 100%																	1	
PMI102	Provision of Temporary Concrete Pavement at the Access to the E&M Plant	0	0	0 017/08(7	31-Mar-21	30-Sep-23	100%	ss to he E8	M Plant R	oom,		1					1	. 1					1	11	
PMI103	Request for Quotation - Update Details of Semi-Enclosed Noise Barrier and :	0	0	0 D17/08(7	13-Apr-21	30-Sep-23	100% c		Barner an	d Shifting the	e Sigh Ga	antry at At-gra	ade Road	. 1 🛙			1	: 1					1	14	
PMI104	Request for Quotation - Additional TCSS Civil Provisions for Full Closure of C	0	0	0 017/08(7	14-Apr-21	30-Sep-23	100% s	ons for Full	Closure of	CBL und er A	Adverse V	Veather Con	ditions.				1							1.1	
PMI105	Risk Assessment for Lightning Protection System of the Semi-Enclosed Nois	0		0 017/08(7	22-Apr-21	30-Sep-23	100%	of the Sem	nonser	Noise Endo	sure	Veather Con			1		÷	·+	·····÷					+	÷
PMI106	Request for Quotation - Additional Civil Provisions of Lighting Pillar Box Foun	0		0 017/08(7	18-Jun-21	30-Sep-23	100%			anting Dillor	Box	dation and F	Poor Inter	line to	dation									1	
							100%			young ⊏ille¢ b		cast Concre	way ug		Generation		1	: 1				1		1.1	
PMI107	Engaging a HOKLAS Accredited Independent Laboratory for Testing of Prec	0		0 017/08(7	24-Jun-21	30-Sep-23		u incepend	ent Habor	nory for Testi	ung of Pre	Juast Goncre	чө мрөэ	2110 1681	19. 1		1					1	1	1.1	
PMI113	Acceleration for the access for C1	0		0 017/08(6	15-Dec-21	15-Dec-21	0 0%		: 🏲 /	cceleration f	for the ac	cess fdr C1,					1							1.1	
equest for Information	ation (RFI)	125	125	0 24-De	c-18 A 31-May-1\$ 27-Au	g-21 27-Aug-21				1		1								1			1		
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				-			1							r	Data				Povés	nion			Chooles		An
 Actual Level or 	of Effort Milestone				Contract N	o.: NE/2017/08			-						Date				Revis				Checke		App
		T 104	789					1						08-N	lar-21	Mor	hthly Pro	ogramn	ne Upc	date (Ma	ar 2021)		TL	StL	
Actual Work	summary 土木	上程于	石展署		Cross Bay Linl	k, Tseung Kwan	n U							00 1	lay-21			-	<u> </u>		ay 2021)		CkT	StL	
		Enginee	bring and	1. C	Road D0 and	Associated Wor	·ks		-			10		0010		_	<u> </u>	<u> </u>	<u> </u>	<u>``</u>				_	
 Remaining Wo Critical Remaining 	ork CEDD Civil I		ering and t Departme			Associated Wor 12 of 26	·ks		D	ril.	d	Kir	20	08-Ji		_	<u> </u>	<u> </u>	<u> </u>	date (Ju			CKT	StL	

RPI001REP RPI002_SUB RPI002_SUB10 RPI002_SUB10 RPI002_SUB10 RPI001_SUB RPI001_SUB RPI011_SUB RPI012_SUB	Activity Name Submission of RF001 - Discrepancy between the Seawall Finished Ground Level Submission of RF002 - Top Level of Pile Cap for the Eavated Section Reply on RF002 - Top Level of Pile Cap for the Eavated Section Submission of RF006 - confirmation of Top Level of Pile Caps and Pile Cap Reply on RF006 - confirmation of Top Level of Pile Caps and Pile Caps Reply on RF006 - Confirmation of Top Level of Pile Caps and Pile Caps of A Submission of RF001 - Confirmation of Top Level of Pile Caps and Pile Caps of A		Ouration Dur 0 0 0	0 D17/08(7 24-Dec-18 A 0 D17/08(7	- and t	Late Start 27-Aug-21	Late Finish	Total TRA Float 0	Activity % Complete 100%	Nov	Dec	Jan Feb	Mar Apr	May	Jun	Jul Aug Sep	Oct	Nov De	Dec Ji	lan Feb	o Mar	Apr May	Jun	Ju
RPI001REP RFI002.SUB RFI002.SUB10 RFI002.SUB10 RFI002.SUB10 RFI001.SUB RFI001.SUB RFI011.SUB RFI011.SUB RFI011.SUB RFI011.SUB RFI011.SUB RFI011.SUB RFI012.SUB RFI012.SUB RFI013.REP RFI016.SUB RFI016.SUB RFI016.SUB RFI05.SUB RFI05.SUB </th <th>Repty on RFID01 - Discrepancy between the Seawall Finished Ground Level Submission of RFID02 - Top Level of Pile Cap for the Elevated Section Repty on RFID02 - Top Level of Pile Cap for the Elevated Section Submission of RFID06 - Confirmation of Top Level of Pile Caps and Pile Cap Repty on RFID06 - Confirmation of Top Level of Pile Caps and Pile Caps of A</th> <th>0 0 0 0 0 0 0 0</th> <th></th> <th>0 017/08(7</th> <th></th> <th>27-Aug-21</th> <th></th>	Repty on RFID01 - Discrepancy between the Seawall Finished Ground Level Submission of RFID02 - Top Level of Pile Cap for the Elevated Section Repty on RFID02 - Top Level of Pile Cap for the Elevated Section Submission of RFID06 - Confirmation of Top Level of Pile Caps and Pile Cap Repty on RFID06 - Confirmation of Top Level of Pile Caps and Pile Caps of A	0 0 0 0 0 0 0 0		0 017/08(7		27-Aug-21																		
RFI022.SUB1 RFI022.SUB10 RFI025.SUB10 RFI025.SUB RFI026.SUB RFI027.SUB RFI0107.SUB RFI01178EP RFI012.SUB RFI012.SUB RFI012.SUB RFI013.SUB RFI013.SUB RFI013.SUB RFI015.SUB RFI016.SUB	Submission of RF002 - Top Level of Pile Cap for the Elevated Section Repty on RF002 - Top Level of Pile Cap for the Elevated Section Submission of RF006 - Confination of Top Level of Pile Caps and Pile Caps Repty on RF006 - Confirmation of Top Level of Pile Caps and Pile Caps of A	0 0 0 0 0	0																	1				1
RFI022 SUB10 RFI066 SUB RFI067 SUB RFI010 SUB RFI011 SUB RFI011 SUB RFI011 SUB RFI011 SUB RFI012 SUB RFI012 SUB RFI013 SUB RFI013 SUB RFI013 SUB RFI016 SUB RFI016 SUB RFI025 SUB	Submission of RF002 - Top Level of Pile Cap for the Elevated Section Repty on RF002 - Top Level of Pile Cap for the Elevated Section Submission of RF006 - Confination of Top Level of Pile Caps and Pile Caps Repty on RF006 - Confirmation of Top Level of Pile Caps and Pile Caps of A	0	0		14-Mar-19		27-Aug-21	0	100%		: I :		1 1							1				1
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RF006.SUB RF006.SUB RF0010.SUB RF010.SUB RF011REP RF011REP RF012.SUB RF012.SUB RF013.REP RF013.REP RF013.REP RF013.REP RF015.SUB RF015.SUB RF015.SUB On5.SUE Onstruction Works Onstruction Works	Submission of RFI006 - Confirmation of Top Level of Pile Caps and Pile Cap Reply on RFI006 - Confirmation of Top Level of Pile Caps and Pile Caps of A	0	0	0 017/08(6	14-Mar-19	-	27-Aug-21	0	100%															
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RPI0108EP RP011.SUB RP011REP RP101REP RP1012.SUB RP1012.SUB RP1013REP RP1013REP RP1015.SUB RP1015.SUB RP1015.SUB RP105.SUB	Submission of reading to rot commission of top Eevel of the Caps at Lit Shart	0	0	0 017/08(7 01-Feb-19 A	07 110 10	27-Aug-21	Li riug Li	0	100%															1
RFI011.SUB RF011REP RF012.SUB RF012.SUB RF012.SUB RF013.SUB RF013.SUB RF013.SUB RF014.SUB RF015.SUB RF016REP RF016REP RF025.SUB RR055REP Onstruction Works Preliminaries	Reply on RFI010 - Confirmation of Top Level of Pile Cpas at Lift Shaft	0	0	0 017/08/7	04-Mar-19	27-509-21	27-Aug-21	0	100%															
RPI011REP RPI012.SUB RPI012.SUB RPI012.SUB RPI013.SUB RPI013.SUB RPI013.SUB RPI013.SUB RPI013.SUB RPI0167EP RPI0167EP RPI0167EP RPI025.SUB RPI025.SUB PRIDETCON Works Preliminaries		0	0		04-110	07 4	27-Aug-21	0	100%				1				1 1	1	1	1	1 1		1	1
RFI012.SUB RR012REP RR013.SUB RF013.SUB RF015.SUB RR016.SUB RR016.SUB <td< td=""><td>Submission of RFI011 - Confirmation of Top Level of Pile Caps at Cycle Ram</td><td>U</td><td>0</td><td>0 017/08(7 04-Feb-19 A</td><td></td><td>27-Aug-21</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Submission of RFI011 - Confirmation of Top Level of Pile Caps at Cycle Ram	U	0	0 017/08(7 04-Feb-19 A		27-Aug-21											1							
RF012REP RF013SUB RF013REP RF015SUB RF016REP RF025SUB RF025REP Onstruction Works Preliminaries	Reply on RFI011 - Confirmation of Top Level of Pile Caps at Cycle Ramp	0	0	0 017/08(7	04-Mar-19		27-Aug-21	0	100%															
RFI013.SUB RFI013.SUB RFI016.SUB RFI016.REP RFI025.SUB RFI025REP onstruction Works Preliminaries	Submission of RFI012 - Confirmation of Top Level of Pile Caps at At-Grade F	0	0	0 017/08(7 04-Feb-19 A		27-Aug-21		0	100%				1				1 1		1					1
RFI013REP RFI016.SUB RFI016REP RFI025.SUB RFI025REP Construction Works Preliminaries	Reply on RFI012 - Confirmation of Top Level of Pile Caps at At-Grade Road	0	0	0 017/08(7	04-Mar-19		27-Aug-21	0	100%				1				1 1	1			1			1
RFI016.SUB RFI016REP RFI025.SUB RFI025REP construction Works Preliminaries	Submission of RFI013 - Grid Line Origin	0	0	0 017/08(7 08-Feb-19 A		27-Aug-21		0	100%															
RFI016REP RFI025.SUB RFI025REP construction Works Preliminaries	Reply on RFI013 - Grid Line Origin	0	0	0 017/08(7	03-Mar-19		27-Aug-21	0	100%				1				1 1	1	1	1	1 1		1	1
RFI025.SUB RFI025REP construction Works Preliminaries	Submission of RFI016 - Unexpected Tree at Wan O Road	0	0	0 017/08(7 16-Feb-19 A		27-Aug-21		0	100%								1 1							
RFI025.SUB RFI025REP construction Works Preliminaries	Reply on RFI016 - Unexpected Tree at Wan O Road	0	0	0 017/08(7	13-Mar-19		27-Aug-21	0	100%				1											
RFI025REP construction Works Preliminaries	Submission of RFI025 - Cycle Track Ramp Portion Ground Level	0	0	0 017/08(7 06-May-19 A		27-Aug-21	-	0	100%															
onstruction Works Preliminaries	Reply on RFI025 - Cycle Track Ramp Portion Ground Level	0	0	0 017/08/7	31-May-19		27-Aug-21	0	100%															
Preliminaries		1093	888	209 13-Nov-18 A	25-Jul-22	18-Aug-21	30-Sep-23	353								25-Jul-22, Cons	struction Work	re i						
			004			07.4							1	1 1										
PREL1010		1093	884	209 13-Nov-18 A	25-Jul-22	27-Aug-21	30-Sep-23	353			·					V 25-Jul-22, Preli	minanes							
	1st Independent Safety Audit Scheme Audit	2	2	0 017/08(6 14-Dec-18 A		30-Sep-23	30-Sep-23	0	100%				1				1			1				1
	Initial Survey	7	7	0 017/08(6 13-Nov-18 A	20-Nov-18	27-Aug-21	27-Aug-21	0	100%															
PREL1017	Initial Hydrographic Survey	7	7	0 017/08(6 21-Nov-18 A	28-Nov-18	27-Aug-21	27-Aug-21	0	100%				1											1
PREL1020	Tree Survey	7	7	0 017/08(6 27-Nov-18 A	04-Dec-18	27-Aug-21	27-Aug-21	0	100%				1				1 1			1	1		1	1
PREL1030	Utilities Detection and Trial Pit at MTRC's Development Area	37	24	0 017/08(6 17-Jan-19 A	16-Feb-19	30-Sep-23	30-Sep-23	0	100%								1							
	Installation of Utilities/ Ground Settlement Moniroting Points at MTRC's Devel	28	28	0 017/08(6 12-Jan-19 A	16-Feb-19	30-Sep-23	30-Sep-23	0	100%	1.1.1														
	Installation of Ground Settlement Monitoring Points at MTRC Development P	20	17	0 017/08(6 23-Feb-19 A	14-Mar-19	30-Sep-23	30-Sep-23	0	100%								1						1	1
	Erection of Contractor Site Office	74	76	0 D17/08(6 14-Jan-19 A	16-Apr-19	30-Sep-23	30-Sep-23	0	100%				1				1							
	General Site Clearance (Tree Feling, Formation of Tempoary Working Acces	26	36	0 017/08(6 02-Jan-19 A			27-Aug-21	0	100%															
		30	30				27-Aug-21	0	100%															
	Erection of Chain Link Fence and Gates at MTRC's Development Area			0 017/08(6 27-Dec-18 A		-	-				į .					÷		·····					- {	÷
	Pre-Construction Condition Survey	15	15	0 017/08(6 28-Nov-18 A	14-Dec-18	30-Sep-23	30-Sep-23	0	100%															
PREL1110	Installation of Monitoring on Exisiting Structure/ Buildings/Utilities	28	28	0 017/08(6 12-Jan-19 A	16-Feb-19	30-Sep-23	30-Sep-23	0	100%															
PREL1115	Construction of Temporary Wheel Washing Facilities	6	6	0 017/08(7 18-Mar-19 A	23-Mar-19	30-Sep-23	30-Sep-23	0	100%								1 1							
PREL1120	Construction of Wheel Washing System (CE005, 007, 009)	22	42	0 017/08(6 26-Apr-19 A	17-Jun-19	30-Sep-23	30-Sep-23	0	100%				1				1 1	1	1		1			1
PREL1130-01	Late Delivery of Steel Material for Fabrication of Structural Members at Pre-fa	60	154	0 017/08(7 29-Jan-20 A	30-Jun-20	23-Sep-21	23-Sep-21	0	100%															
PREL1130-02	Sample Selection and Testing for Structural Steels for Pre-fabrication of Nois	33	185	0 017/08(6 02-Jul-20 A	10-Feb-21	23-Sep-21	23-Sep-21	0	100% of No	ise Enclos	ure		1										1	1
PREL1130-12	Fabrication of Structural Elements for At-grade Road Noise Enclosure (Type	90	204	21 017/08(6 02-Mar-21 A	01-Dec-21	28-Oct-21	20-Nov-21	-9 0	76.67%		Fabricatio	on of Structure	Elements for At	grade Roa	I Nose E	riclosure (Type B)	1 1		1	1	1			
	Delivery of Structural Elements for At-grade Road Noise Enclosure (Type B)	60	60	0 017/08(6 13-Mar-21 A	28-May-21	10-Jan-22	10-Jan-22	0	100% grade	Road Noi		e (Type B)												
PREL1130-32	Fabrication of Structural Elements for Noise Enclosure for Elevated Deck, U4	90	51	38 017/08(6 06-Sep-21A	21-Dec-21	18-Oct-21	30-Nov-21	-18 0	57.78%				uctural Elements	for Noise F	nclosure	for Elevated Deck, U-trou	unti (Type A							
PREL1130-42	Delivery of Structural Elements for Elevated Deck, U-trough (Type A)	60	0	60 017/08(6 08-Nov-21	19-Jan-22	24-Sep-21	04-Dec-21	-36 0	0%							eck, J-trough (Type A)			1		1			1
PREL1130-52		45	0	45 D17/08(6 08-Nov-21	31-Dec-21	10-Dec-21	08-Feb-22	29	0%		(Eabrication of	Structural Eleme	to for Nois	-	re for Wan O Road (Type								÷
	Fabrication of Structural Elements for Noise Enclosure for Wan O Road (Type	30	0						0%				tructural Elemen			ile ici vian o reap (rype	10, 0)							
PREL1130-62	Delivery of Structural Elements for Wan O Road (Type C, D)			30 D17/08(6 30-Nov-21	06-Jan-22	05-Jan-22	12-Feb-22	29	100% nd Pt				ouccular Bernen	SICINATI	nua (ypec, by	1 1							
PREL1140-01	Fabrication of Sub-frame and PMMA Panels for Noise Enclosure	60	60	0 017/08(6 20-Apr-21 A	02-Jul-21	23-Sep-21	23-Sep-21	0		vive Pane		Enclosure					1							
	Delivery of Sub-frame and PMMA Panels for Noise Enclosure	30	121	11 017/08(6 15-Jun-21 A	19-Nov-21	23-Sep-21	06-Oct-21	-37 0	63.33%				PMMA Panels fo	Noise Enc	osuie		1 1							1
	Procurement, factory acceptance test for Lift	60	0	0 017/08(6 15-Oct-21 A	15-Oct-21	20-Nov-21	20-Nov-21	0	100%	Theurerhe		cceptance tes				ļ								Ļ
PREL1150-01	Delivery for Lift and Associated	44	0	44 017/08(6 08-Nov-21*	30-Dec-21	20-Nov-21	13-Jan-22	11 0	0%			Delivery for Lif	and Associated				1 1							
	FSD's agreement and confirmation on the arrangement and schedules of FS	48	0	48 017/08(6 19-Nov-21	17-Jan-22	17-Feb-22	14-Apr-22	71 0	0%	. ⊢ ∰		📕 F\$D's ag	réement and cor	firmation o	n the arra	rige nent and schedules	of FS inspec	iton to the E	E&M work	ks for the lift	ft		1	1
PREL1170	Environmental baseline monitoring (by others)	48	48	0 017/08(6 17-Dec-18 A	16-Feb-19	30-Sep-23	30-Sep-23	0	100%								1 1							
PREL1180	Removal of Exisitng Lighting Columns (by others)	3	3	0 017/08(6 09-Apr-19 A	11-Apr-19	27-Aug-21	27-Aug-21	0	100%								1 1							
	Laying of Permanent Power Cable (by others)	48	0	48 017/08(6 25-Mar-22	26-May-22	24-Mar-22	26-May-22	-1 0	0%				: - -		Layrg d	Permanent Power Cab	le (by others)							
	Civil provision of TCSS	48	0	48 017/08(6 08-Nov-21	05-Jan-22	19-Jan-22	18-Mar-22	59 0	0%		(the second sec	Civil provisio	of TCSS		-11-		ŕ							1
	Installation of Permanent Street Lighting (by others)	49	0	49 017/08(6 27-May-22	25-Jul-22	26-May-22	25-Jul-22	-1 0	0%		1 T.					Installation of P	erinanent Str	reet Lighting	na (by hthe	ers)				
PREL1240	Laying of Irrigation (Portion I, II, III)	49	0	49 017/08(6 27-May-22	25-Jul-22	26-May-22	25-Jul-22	-1 0	0%							Laying of Irrigat			-5 (0) 0/10		1			1
		49 80	365	0 017/08(7 14-Jan-20 A	25-Jui-22 13-Jan-21	20-Way-22 02-Sep-21	25-Jul-22 02-Sep-21	-1 0	100%							Laying or ingat								
	Procurement, Factory Acceptance Test and Delivery of Bearing			0 017/00(7 14-0aft-20 A		02-08p-21	02-08p-21	U	100%	+							1							
Ground Investigation	Ground Investigation Rombole (NERH1) (Rig4) (10D/bole+ED TR4)	30	23	0 017/08(6 13-Jun-19 A 0 017/08(6 02-Jul-19 A	10-Jul-19, 10-Jul-19,	27-Aug-21 27-Aug-21	27-Aug-21 27-Aug-21	5	100%	·ŀ·ŀ··₩	÷∰+++		++		-+++	+	-++			+			-+	÷
GI1010	Ground Investigation Borehole (NEBH1) (Rig4) (10D/hole+5D TRA)	15	9				27-Aug-21 27-Aug-21	5	100%								1 1							
-	Ground Investigation Borehole (NEBH2) (Rig1) (10D/hole+5D TRA)		-	0 017/08(6 13-Jun-19 A		-											1							1
	Ground Investigation Borehole (NEBH3) (Rig1) (10D/hole+5D TRA)	15	8	0 017/08(6 24-Jun-19 A		27-Aug-21	2/-Aug-21	5	100%									!		1				
Construction Works of Portio		866	700	164 02-Jul-19 A	24-Jun-22	18-Aug-21	30-Sep-23	378								24-Jun-22, Construction	works of Por	tion I		1				
	Provide Access to MTRC P10 at Elevated Cycle Track Area	274	274		31-Mar-20		27-Aug-21	0	100%	. 														<u>.</u>
	Provide Access to MTRC P10 at U-trough Section	214	188	0 017/08(7 01-Apr-20 A	05-Oct-20	09-Sep-21	09-Sep-21	0	100%								I I							
Cycle Track - U-trough		821	659	165 19-Aug-19 A	01-Jun-22	09-Sep-21	14-Apr-22	-36		***			+ +		7 D - Jur	22, Cycle Track - U-troug	gh				1			
	vel(+5.0mPD to +4.4mPD) (700m3)	446	398	0 19-Aug-19 A	17-Dec-20	09-Sep-21	09-Sep-21				: : :						1			1			1	1
	Excavation to U-trough Founding Level for Construction of Bay 6-9 (+5.0mPl	5	3	0 017/08(6 19-Aug-19 A	21-Aug-19	09-Sep-21	09-Sep-21	0	100%								1		1	1				
	Plate Load Test	7	5	0 D17/08(7 22-Aug-19 A			09-Sep-21	0	100%															L
PORLUT.EX1030	Excavation to U-trough Founding Level for Construction of Bay 3-5 (+5.0mPl	10	13	0 017/08(6 09-Mar-20 A	23-Mar-20	09-Sep-21	09-Sep-21	0	100%								1 1						-	1
PORLUT.EX1040	Liaision with Towngas and TranxComm and Utilities Diversion for Bay 3 (EWC	60	235	0 017/08(6 17-Jan-20 A	02-Nov-20	09-Sep-21	09-Sep-21	0	100%															
	Excavation to U-trough Founding Level for Construction of Bay 2 (+5.0mPD	4	5	0 017/08(6 19-Nov-20 A	24-Nov-20	09-Sep-21	09-Sep-21	0	100%								1							1
	Excavation to U-trough Founding Level for Construction of Bay 1 (+5.0mPD	4	5	0 017/08(6 12-Dec-20 A			09-Sep-21		100% PD)															
	Utilities Diversion for Bay 1-2	30	22	0 017/08(6 21-Sep-20 A				0	100%								1			1				
	Structure (9 Bays, 27D/Bay, 1 Team)	697	556	45 017/08/6 07 Aug 40 A	31.000-20	00 See 24	03 Nov 21	48	10070	· [·] · ·] ·	i <mark>s</mark> hdani - j	31.Dec 21	netruction of 111			vs, 27D/Bay, 1 Team)	-++						-+	÷
	Construction of Blinding Layer for Bay 6-9	697	4	45 J17/08(6 27-Aug-19A 0 D17/08(6 27-Aug-19A	30-Aug 11	09-560p-21	09-Sec 21	-48	100%			JI-DBU-21, C	aduation of U-tr	agnisiud	16 B R9	yo, arunday, Tileami)	1							
	Construction of Bilinding Layer for Bay 6-9 Construction of U-trough Structure Bay 6-9 Base Slab (14D/bay, 1 team)	56	4 34	0 017/08(6 27-Aug-19A				0	100%															
- FORLOI.STIUIU	conaracion or o-rough Structure bay 6-9 Base Stab (14Erbay, 1 team)	00	34	0 011/00(0 27-Aug-19A	00-UCI-19	09-08P-21	09-96h-51	U	100%								<u> </u>	:	:			:	:	<u>:</u>
Actual and a free	t A Milastan				<u> </u>			0			-				Da	ate		Revision	on			Checked	A	ppi
 Actual Level of Effort 					Contra	ict No.: N	E/2017/0	8		1				E.			Dec are			-2024)			-	
Actual Work	summary / + th	工程托	属翼	C	ross Rov	Link To	eung Kw	an O						-)8-Mai				-		TI		StL	
	CEDD -		H /1 K 1				-				-	100		0)8-May	/-21 Monthy P	Programm	e Update	te (May	/2021)	C	kТ	StL	
Remaining Work	CEDU Civil I	Engineer	ring and	R	load D9	and Asso	ciated Wo	orks			D		Kir		8-Jul						C	КТ	StL	
Critical Remaining W	Vork Devel	opment	Departn	nent		Page 13 of	26				DU			2	6-Sep		<u> </u>		- (2012			KT	St	

ctivity ID	amme Update			Contract No.: NE	/2017/08 -	Cross Ba	ay Link, Ts	eung Kwa	an O - Roa	d D9 a	nd Ass	ociated W	/orks													
and to	Activity Name	Original Actua Duration Duratio	al Remainin n Duratio		Finish	Late Start	Late Finish	Total TRA Float	Activity % Complete Od	1	1					2022					_		1	2023		
PORLUT.ST1010-01	Construction of U-trough Structure Bay 9 Wall Stem	14 1		0 017/08/6 06-Mar-20 A	17-Mar-20	09-Sep-21	09-Sep-21	0	100%	t Nov	/ Dec	Jan F	eb Mar	Apr N	lay Ju	un Ju	I Aug	Sep	Oct	Nov	Dec Ja	lan Feb	o Mar	Apr Ma	y Jun	Jul
PORLUT.ST1010-01		14 3	-	0 017/08(6 19-Mar-20 A		09-Sep-21	09-Sep-21	0	100%									1	1 1							
PORLUT.ST1010-03		14 1		0 017/08(6 06-Mar-20 A	-	09-Sep-21	09-Sep-21	0	100%		***	++	-++		.			†	++	+-						††
PORLUT.ST1010-13		14 2		0 017/08(6 11-Apr-20 A		09-Sep-21	09-Sep-21	0	100%										1 1							
PORLUT.ST1020	Access Road Modification to Seaside	14	9	0 017/08(6 27-Feb-20 A	07-Mar-20	09-Sep-21	09-Sep-21	0	100%																	
PORLUT.ST1030	Construction of Blinding Layer for Bay 4-5	2		0 017/08(6 24-Mar-20 A		09-Sep-21	09-Sep-21	0	100%										1 1							
PORLUT.ST1040-01	Construction of U-trough Structure Bay 5 Base Slab	14 1:	2	0 017/08(6 25-Mar-20 A	08-Apr-20	09-Sep-21	09-Sep-21	0	100%										1 1							1
PORLUT.ST1040-11	Construction of U-trough Structure Bay 4 Base Slab	14 2	5	0 017/08(6 28-Mar-20 A	02-May-20	09-Sep-21	09-Sep-21	0	100%							1			1 1							1
PORLUT.ST1040-15	Construction of Blinding Layer for Bay 3	4	2	0 017/08(6 03-Nov-20 A	04-Nov-20	09-Sep-21	09-Sep-21	0	100%										1 1							
PORLUT.ST1040-21	Construction of U-trough Structure Bay 3 Base Slab	14 1	2	0 017/08(6 11-Nov-20 A	24-Nov-20	09-Sep-21	09-Sep-21	0	100%										1 1							
PORLUT.ST1040-31	Construction of U-trough Structure Bay 5 Wall Stem	14 1	6	0 017/08(6 27-Jul-20 A	13-Aug-20	09-Sep-21	09-Sep-21	0	100%										1 1							
PORLUT.ST1040-41	Construction of U-trough Structure Bay 4 Wall Stem	14 2	8	0 017/08(6 22-Jun-20 A	25-Jul-20 i	09-Sep-21	09-Sep-21	0	100%										1 1							1
PORLUT.ST1040-51	Construction of U-trough Structure Bay 3 Wall Stem	14 1	4	0 017/08(6 18-Feb-21 A	05-Mar-21	09-Sep-21	09-Sep-21	0	100%									1						[1
PORLUT.ST1060	Construction of Blinding Layer for Bay 2	2	1	0 017/08(6 25-Nov-20 A	25-Nov-20	09-Sep-21	09-Sep-21	0	100%																	
PORLUT.ST1065	Construction of Blinding Layer for Bay 1	2	1	0 017/08(6 18-Dec-20 A	18-Dec-20	09-Sep-21	09-Sep-21		100%										1 1							1
PORLUT.ST1070	Construction of U-trough Structure Bay 2 Base Slab	14 1	4	0 017/08(6 26-Nov-20 A	11-Dec-20	09-Sep-21	09-Sep-21	0	100%										1 1							
PORLUT.ST1070-01	Construction of U-trough Structure Bay 1 Base Slab	14 1		0 017/08(6 21-Dec-20 A		09-Sep-21	09-Sep-21	0	100%			<u> </u>						<u> </u>	<u> </u>							<u> </u>
PORLUT.ST1070-02		14 10		0 017/08(6 01-Mar-21 A		09-Sep-21	09-Sep-21	0		tru tu e E	av: Walls	tem							1 1							
PORLUT.ST1070-12		14 3		0 017/08(6 18-Dec-20 A		09-Sep-21	09-Sep-21	0	100%										1 1							
PORLUT.ST1070-42		45	0 4	5 017/08(6 08-Nov-21	31-Dec-21	09-Sep-21	03-Nov-21	-48	0%			R.C Coping	for Balustrade						1							
Backfilling to Interim For	rmation Level (2 Layers, 5D/layer)	70 5	5 2	0 017/08(6 01-Sep-21 A	30-Nov-21	09-Sep-21	08-Dec-21	7			poly boly	v-21, Backfillin	for Balustrade g to Interim For	mation Le	el (2 Laye	n, 50/la	er)	1	1							
PORLUT.BF1010	Backfilling to Interim Formation Level (2 Layers, 5D/Layer)	10		0 017/08(6 08-Nov-21		26-Nov-21	08-Dec-21	17 0	0%									ļ						ļļ	 	
PORLUT.BF1020	Backfilling inside U-trough Structure (14 Layers, 5D/layer)	70 5		0 017/08(6 01-Sep-21A	30-Nov-21	09-Sep-21	04-Oct-21	-48 0 -36	71.43%		Balcel	inng inside U-t	rough Structure	(14 Layers	, o∪/layei		De marte 1 a 1 a		1							
Remaining Works	Construction of Drainage for SMH101 to SMH102	503 25 35 1		5 017/08(6 16-Sep-20 A 0 017/08(6 16-Sep-20 A	01-Jun-22 06-Oct-20	26-Oct-21 26-Nov-21	14-Apr-22 26-Nov-21	-36	100%						T P	-jun-22,	Remaining V	works	1							1
PORLUT.1050 PORLUT.1055	Review and Acceptance of Design for ELS for Drainage	35 1		0 017/08(6 16-Sep-20 A 0 017/08(6 08-Oct-20 A		26-Nov-21 26-Nov-21	26-Nov-21 26-Nov-21	U	100%			1						1	1							
PORLUT.1060		35 5				26-Nov-21	26-Nov-21	0	100% for	50 402									1 1							1
PORLUT.1070	Construction of Drainage for SMH102 to SMH103 Construction of Drainage for SMH103 to SMH104	35 5		0 017/08(6 08-May-21 A 0 017/08(6 21-Jun-21 A		26-Nov-21 26-Nov-21	26-Nov-21	0	100% for 100% nag		to SNH103 + Ošto SN	6104			H +-	+		÷	++					<u> </u>		+
PORLUT.1080	Construction of Drainage for SMH103 to SMH104 Construction of Drainage for SMH104 to SMH105	35 3		0 017/08(6 03-May-21A 0 017/08(6 03-May-21A		26-Nov-21 26-Nov-21	26-Nov-21 26-Nov-21	0	100% nag		1001031	1104							1 1							
PORLUT.1090.00	Construction of Drainage for SwiF104 to SwiF105 Construction of Planter, Lighting & Drawpit	80		0 017/08(6 03-May-21A 0 017/08(6 01-Dec-21		26-NOV-21 08-Dec-21	26-NOV-21 18-Mar-22	7 0	0%					nuction of		Hine 8	tideuco	1								
PORLUT.1090.00	Construction of Planter, Lighting & Drawpit Construction of U Channel			0 017/08(6 01-Dec-21 0 017/08(6 08-Nov-21		08-Dec-21 06-Nov-21	18-Mar-22 14-Feb-22	-1	0%		181	1 1	Const Construction	oflichan		1.00	awpit		1							
PORLUT.1090.02	Concrete Barrier, Cable Duct and Road Pavement			5 D17/08(6 03-Jan-22	30-Apr-22	17-Dec-21	14-Peb-22 14-Apr-22	-11	0%	IE		; <u> </u>	Construction	or or calain	adamata D	- Co	h Dust and I	 Bood Do	L							1
PORLUT.1090.02	Balustrade Installation			0 017/08(6 03-Jan-22		04-Nov-21	14-Apr-22 30-Mar-22	-11	0%						o crete B	aner, ca	nstallation	Road Pa	vement							+
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Elevated Cycle Track	Construction of Drainage SMH601 to SMH604	826 68	-	4 017/08(6 23-Jul-19 A	31-DeC-21	20-00-21	10-D80-21	418	0%			Constitutio	n or Drainage o		06-May 2	Cislant.	d Ovde Trad)	1 1							1 1
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Predrilling Works for Alte	ternative PBSH at MTRC Development Zone (10nos, 10D/pile+5D TRA, 1 to 4rig:	240 23	2	0 017/08(6 23-Jul-19 A	05-May-20	27-Aug-21	30-Sep-23												1 1							1
Rig 2		128 12		0 017/08(6 04-Dec-19 A	05-May-20	27-Aug-21	27-Aug-21												1 1							
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PORLED.PD1120	Predriling for Alternative PBSH at Portion I (PD01A)	10	7	0 017/08(6 25-Apr-20 A	05-May-20	27-Aug-21	27-Aug-21	5	100%																	
Rig 3		15 1		0 017/08(6 05-Sep-19A		27-Aug-21	27-Aug-21												1 1							1
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Rig 4		15 1		0 017/08(6 17-Aug-19A	-	27-Aug-21	27-Aug-21		1000/										1 1							
PORLED.PD1040	Predrilling for Alternative PBSH at Portion I (PD98)	15 1		0 017/08(6 17-Aug-19A			27-Aug-21	5	100%															<u>↓</u> ↓		
PORLED.PD1050	Predrilling for Alternative PBSH at Portion I (PD02)	23 1 15		0 017/08(6 10-Oct-19 A 0 017/08(6 10-Oct-19 A		27-Aug-21	27-Aug-21 27-Aug-21	5	100%										1 1							1
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E. Pin 6		60 5		D D17/08(6 19-Oct-19 A	_		27-Aug-21	5	100%																	
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	PORLED.PC1060	Construction of PC5 (incl. Installation of Capping plate)	14	26	0 017/08(6 30-Nov-20/	A 31-Dec-20	09-Sep-21	09-Sep-21	0	100%															
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	PORLED.PC1080	Construction of PC3 (incl. Installation of Capping plate)	14	19	0 017/08(6 14-Dec-20/	A 07-Jan-21	09-Sep-21	09-Sep-21	0	100%															
	PORLED.PC1090	Construction of PC2 (incl. Installation of Capping plate)	14	16	0 017/08(6 17-Dec-20/	A 07-Jan-21	09-Sep-21	09-Sep-21	0	100%															
	PORLED.PC1100	Construction of PC1 (incl. Installation of Capping plate)	14	10	0 017/08(6 20-Jan-21 A	A 30-Jan-21	21-Oct-21	21-Oct-21	0	100%															
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Remaining Work CEUD Civil Engineering and Development Department Road D9 and Associated Works Read D9 and Associated Works								Couna V	won A									,	<u> </u>			,		^	
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NE/20)17/08 Monthly Program	nme Update		Contract No.: NE/2	2017/08	- Cross B	ay Link, T	seung Kwan O - Road	D9 and As	sociated Work	s						
Activity ID		Activity Name	Original Actual Remaining Duration Duration Duration	Calendar Start	Finish	Late Start	Late Finish	Total TRA Activity % Float Complete Oct	Nov De	a lan Eah	Max Anx M	2022	d Aug Con	Ort Ney Dee Jap Eah	2023	hun	hil Aug
	PORII.ED.GD.0190	2nd Drainage Diversion of Existing 1500mm pipe from SMH011 ELS to SMH	14 15 0	D17/08(6 06-Oct-20 A	22-Oct-20	02-Sep-21	02-Sep-21	0 100%		c Jan Feb	Mai Api N	ely Juli J	ai Aug Sep	Oct Nov Dec Jan Feb	iviai Api iviai	Jun	Jui Aug
	PORII.ED.GD.0210	Further Excavation and Installation of ELS (lagging) to +0.83mPD for SMH01	18 9 0	017/08(6 23-Oct-20 A	03-Nov-20	02-Sep-21	02-Sep-21	0 100% MI052	2								
	PORII.ED.GD.0220	Further Excavation and Installation of ELS (lagging) to +0.31mPD for SMH01			20-Jan-21	02-Sep-21	02-Sep-21	0 100% 12 inc	cliding Blinding	(NCE108, PM052)							
	PORII.ED.GD.0230	Construction of Manhole SMH011 (1st Portion) (below +2.9mPD) (PMI052)			29-Dec-20	02-Sep-21	02-Sep-21	0 100%									
	PORII.ED.GD.0240	Construction of Manhole SMH012 (1st Portion) (below +2.9mPD) PMI052)				02-Sep-21	02-Sep-21	0 100%.9mPl	D FMICS2)	.							
	PORII.ED.GD.0250 PORII.ED.GD.0250-01	Backfilling for SMH011 to +2.3mPD (PM052)			04-Jan-21 09-Jan-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0 100%									
	PORILED.GD.0250-01	Excavation to +2.3mPD for PC30 (PMI052) Removal of Struts in ELS for SMH011 and Cutting of Sheet Piles at +2.3mPl		017/08(6 04-Jan-21 A	11-Jan-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0 100% PMD									
	PORII.ED.GD.0270	Backfilling for SMH012 to +2.3mPD (PMI052)			23-Mar-21	02-Sep-21	02-Sep-21	0 100%	T1								
	PORII.ED.GD.0270-01	Excavation to +2.3mPD for PC18 (PMI052)		017/08(6 24-Mar-21 A	27-Mar-21	02-Sep-21	02-Sep-21	0 100%									
	PORII.ED.GD.0280	Removal of Struts in ELS for SMH012 and Cutting of Sheet Piles at +2.3mP	4 4 0	017/08(6 29-Mar-21 A	01-Apr-21	02-Sep-21	02-Sep-21	0 100% heet	Ples a +2.3m	PD (PMI052)							
	PORII.ED.GD.0310	Excavate to +2.3mPD for Grid 3			13-Mar-21	02-Sep-21	02-Sep-21	0 100%									
		Installation of Capping Plate for PC22, PC24 (4nos, 4D/no, 2teams) (PMI052			25-Nov-20		27-Aug-21	0 100%									
		Installation of Capping Plate for PC30 (4nos, 4D/no, 2teams) (PMI052)			19-Jan-21	02-Sep-21	02-Sep-21	0 100%									
		Installation of Capping Plate for PC18, 20 (4nos, 4D/no, 2teams) (PM052)		017/08(6 07-Apr-21 A 017/08(6 16-Jan-21 A	15-Apr-21 21-Jan-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0 100% D/no, 0 100%	2teams)(FMC	×2)						-++-	
		Installation of Capping Plate for PC14, 16 (4nos, 4D/no, 2 teams) (PM052) Installation of Capping Plate for PC26, PC28 (4nos, 4D/no, 2 teams)			21-Jan-21 21-Nov-20		27-Aug-21	0 100%									
	PORILED.GD.1020	Construction of PC30 (PMI052)				02-Sep-21	02-Sep-21	0 100%									
	PORILED.GD.1021	Construction of PC28 (PMI052)			05-Dec-20	27-Aug-21	27-Aug-21	0 100%									
	PORIILED.GD.1022	Construction of PC26 (PMI052)	9 9 0	017/08(6 26-Nov-20 A	05-Dec-20	27-Aug-21	27-Aug-21	0 100%									
	PORIILED.GD.1023	Construction of PC24 (PMI052)	9 10 0	017/08(6 25-Nov-20 A	05-Dec-20	27-Aug-21	27-Aug-21	0 100%									
	PORIILED.GD.1024	Construction of PC22 (PMI052)			05-Dec-20		27-Aug-21	0 100%									
	PORII.ED.GD.1025	Construction of PC20 (PMI052)			27-May-21	02-Sep-21	02-Sep-21	0 100%									
	 PORII. ED. GD. 1026 PORII. ED. GD. 1027 	Construction of PC18 (PMI052) Construction of PC16 (PMI052)				02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0 100%									
	PORII.ED.GD.1027	Construction of PC16 (PMI052) Construction of PC14 (PMI052)				02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0 100%	· <mark>╊</mark> ╋╌╋╋╋╋	-		╋╍┾╋╋╍				-++-	
	PORII.ED.GD.1030	Backfilling to Interim Formation Level by Rolling (7 Layers, 1.5D/Layer) (Grid		017/08(6 05-May-21 A	17-May-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0 100% Rolling	g 7 Layers 1.5	D/Layer) (Grid D)							
	PORII.ED.GD.1050	Construction of Column at PC30			09-Apr-21	02-Sep-21	02-Sep-21	0 100%									
	PORIILED.GD.1060	Construction of Column at PC28	10 20 0	017/08(6 19-Jan-21 A	10-Feb-21	02-Sep-21	02-Sep-21	0 100%									
	PORIILED.GD.1070	Construction of Column at PC26		017/08(6 19-Jan-21 A	29-Jan-21	02-Sep-21	02-Sep-21	0 100%									
	PORIILED.GD.1080	Construction of Column at PC24			29-Jan-21	07-Sep-21	07-Sep-21	0 100%									
	PORII.ED.GD.1090	Construction of Column at PC22			23-Jul-21		07-Sep-21	0 100% nn at	PO22								
	PORII.ED.GD.1100	Construction of Column at PC20				07-Sep-21	07-Sep-21	0 100% nn at 0 100%	8020								
	PORII.ED.GD.1110 PORII.ED.GD.1120	Construction of Column at PC18 Construction of Column at PC16			08-May-21 25-Mar-21	07-Sep-21 07-Sep-21	07-Sep-21 07-Sep-21	0 100%									
	PORILED.GD.1130	Construction of Column at PC14			25-Mar-21		07-Sep-21	0 100%									
	Construction of PC42 (16E	0) + Abutment 2B (28D) + Bearing Installation (14D)	292 292 0	017/08(6 15-Apr-20 A	09-Apr-21	08-Sep-21	30-Sep-23	t 28 ((280) + Bearing	nstallation (14D)							
	PORII.AB2B.1000	Excavation to Pile Cap Founding Level (Abutment 2B)			12-Jun-20	08-Sep-21	08-Sep-21	0 100%									
	PORII.AB2B.1002	Trimming of Bored Pile Head (3nos) (Abutment 2B)			24-Jun-20	08-Sep-21	08-Sep-21	0 100%									
	PORII.AB2B.1005	Construction of PC42			09-Jul-20	08-Sep-21	08-Sep-21	0 100%									
	PORII.AB2B.1007 DOBILAB2B.1010	Backfilling to Interim Formation Level (7 Layers, 5D/Layer) (Abutment 2B)			31-Jul-20	30-Sep-23 08-Sep-21	30-Sep-23 08-Sep-21	0 100%									
	PORII.AB2B.1010 PORII.AB2B.1010-01	Construction of Abutment 2B (1st pour) Construction of Abutment 2B (2nd pour)		017/08(6 13-Jul-20 A 017/08(6 01-Dec-20 A	10-Aug-20 16-Dec-20	08-Sep-21 08-Sep-21	08-Sep-21	0 100%									
	PORII.AB2B.1010 01	Bearing Installation at Abutment 2B				08-Sep-21	08-Sep-21	0 100%									
	Construction of Beam/Slat	b (11bays, 30D/bay incl. topping, 6 teams)	330 190 188	017/08(6 23-Mar-21 A	29-Jun-22	02-Sep-21	14-Apr-22	-59			┥┽┿	29	Jun 22, Construction of	f Beam/\$lab (11bays, 30D/bay incl. topping, 6	i teams)		
	PORII.ED.PB1009	Scaffolding Erection for Beam+Slab Bay 4			29-May-21	02-Sep-21	02-Sep-21	100% ay 4									
	PORII.ED.PB1010	Construction of Beam+Slab Bay 4			08-Jul-21,	02-Sep-21	02-Sep-21	0 100% ab Ba	311 10 301								
	PORILED.PB1011	Construction of 1m wall & parapet at deck at Bay 4		017/08(6 27-Sep-21 A	09-Dec-21	02-Sep-21	06-Oct-21	-54 0%		Construction of 1m wal	l & parapet at deck al	thay4					
	PORII.ED.PB1019 PORII.ED.PB1020	Scaffolding Erection for Beam+Slab Bay 3				07-Sep-21 07-Sep-21	07-Sep-21 07-Sep-21	0 100% am+		0							
	PORILED.PB1020	Construction of Beam+Slab Bay 3 Construction of 1m wall & parapet at deck at Bay 3			05-Nov-21		07-Sep-21 07-Oct-21	100%101		p of 1m wall & narane	t at deck at Bay 3	****				-++-	
	PORILED.PB1029	Scaffolding Erection for Beam+Slab Bay 1		017/08(6 16-Aug-21A		07-Sep-21	07-Sep-21	100% S	deficiding Bred	n of 1m wall & parape on for Beam+Slab Ba	y 1						
	PORII.ED.PB1030	Construction of Beam+Slab Bay 1			08-Nov-21	07-Sep-21	07-Sep-21	-50 0 96.43%		on of Beam+Slab Bay							
	PORILED.PB1031	Construction of 1m wall & parapet at deck at Bay 1		017/08(6 09-Nov-21	10-Dec-21	08-Sep-21	12-Oct-21	-50 0%	F	Construction of 1m wa	ll & parapet at deck a	ttBay 1					
	PORIILED.PB1039	Scaffolding Erection for Beam+Slab Bay 2		017/08(6 19-Aug-21 A	12-Oct-21	08-Sep-21	08-Sep-21	100% Sc	affolding Electric	on for Beam+Slab Bay	2						
	PORILED.PB1040	Construction of Beam+Slab Bay 2		017/08(6 13-Oct-21 A	12-Nov-21	08-Sep-21	08-Sep-21	0 100%		tion of Beam+Slab Ba	y 2						
	 PORII.ED.PB1042 PORII.ED.PB1050 	Construction of 1m wall & parapet at deck at Bay 2			21-Dec-21 07-Feb-22	08-Sep-21	12-Oct-21 29-Nov-21	-59 0%			wall & parapet at dec g of Concrete Barrier						
	PORILED.PB1050	Laying of Concrete Barrier & Cable Duct Drawpit and Cable duct laying for TCSS and Lighting		017/08(6 10-Dec-21	07-Feb-22 18-Feb-22		29-Nov-21 18-Mar-22	-54 0%					nd Liahtina				
	PORII.ED.PB1060	MU Installation		017/08(6 22-Dec-21	12-Feb-22	13-Oct-21	29-Nov-21	-59 0%			installation	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	PORILED.PB1070	WaterProofing			28-Apr-22	30-Nov-21	14-Feb-22	-59 0%	<u>╆</u> ╞╌╫┋╫	۳.		alerPropfing					
	PORILED.PB1080	Road Pavement	50 0 50	017/08(6 29-Apr-22	29-Jun-22	15-Feb-22	14-Apr-22	-59 0%				R	ad Pavement				
	Drainage Works		253 173 95	017/08(6 16-Nov-20 A	04-Mar-22	20-Nov-21	14-Apr-22	34			04-Mar-22, Drainag	ge Works					
		Construction of Drainage SMH109 to SMH012 Construction of Manhala SMH011 (2nd Particip) (above +2.0mPD) (DM052)		017/08(6 16-Nov-20 A	17-Apr-21	20-Nov-21	20-Nov-21	0 100% 0 100% (2nd F									
		Construction of Manhole SMH011 (2nd Portion) (above +2.9mPD) (PMI052) Construction of Manhole SMH012 (2nd Portion) (above +2.9mPD) (PMI052)		017/08(6 27-May-21 A 017/08(6 08-Jun-21 A		20-Nov-21	20-Nov-21 20-Nov-21		1	+2.9mPD) (PMI052) ove +2.9mPD) (PMI052	2)	₩ -++- + -8					
		Construction of Mannole SWH012 (2nd Ponion) (above +2.9mPD) (PWi052) Construction of Drainage Pipe between SMH012 and SMH011			21-Jun-21 11-Dec-21		20-INOV-21 28-Dec-21	0 100%)12 (2		Construction of Draina		H012 and SMH011					
		Laying of Water Main			09-Feb-22		23-Feb-22	12 0 0%			ng of Water Main						
	PORII.ED.DRA1150	Civil Provision for TCSS		017/08(6 10-Feb-22	04-Mar-22		18-Mar-22	12 0%			Givil Provision for T						
	PORIILED.DRA1160	Laying of Ducting for Road Lightings			04-Mar-22	23-Feb-22	18-Mar-22	12 0%			Laying of Ducting f						
	PORII.ED.DRA1170	Road Paving	40 0 40	017/08(6 08-Nov-21	23-Dec-21	26-Feb-22	14-Apr-22	89 0%		Road Paving							
		e Enclosure (CH13360.1 to CH13482.1) (Portion II + III) Construction of Semi-Noise Enclosure CH13376.082 to CH13482.101 Main I	82 0 82	017/08(6 19-Nov-21	01-Mar-22	05-Jan-22	14-Apr-22	37			0 -Mar-22, Construct	ction of Semi Noise	Endosure (CH13360.	to CH13482.1) (Portion II + III) rame			
	PORII.ED.NE1020	Construction of Semi-Noise Enclosure CH13376.082 to CH13482.101 Main 1	41 0 41	017/08(6 19-Nov-21	08-Jan-22	05-Jan-22	24-Feb-22	37 0 0%		Construction	r Semi-Noise Endosi		p CH13482.101 Main F	rame		1 1	
_	Actual Level of Effor	t Milestone			Contro	ot No · '	NE/2017	0.9				Date		Revision	Checked	Арр	proved
			T 10 +T E 99				NE/2017/		1			08-Mar-21	Monthly Pro	ogramme Update (Mar 2021)	TL	StL	
	Actual Work		工程拓展署		-		seung Ky					00.14		gramme Update (May 2021)	CkT	StL	
	Remaining Work		ingineering and		oad D9 a	and Asso	ociated V	Vorks	D	المازرر	Vin	08-Jul-21		ogramme Update (Jul 2021)	CKT	StL	
	Critical Remaining V	Vork Devel	opment Departmer	st	1	Page 19 of	26		D	uild	NINE	16-Sep-2		n Programme	CKT	St	
	5			-							G	2 10-Seh-2	Acceleiato			3	
		I						I									

	Activity Name	Original Actual Rem	Contract No.: NE	Finish	Late Start	Late Finish	Total TRA	A Activity %							2	2022								2023		_
			uration				Float	Complete C	ct Nov	/ Dec	: Jan	Feb	Mar Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec .	Jan Feb	o Mar	Apr I	May J	lun .
Rig 6	ve PBSH (40nos, 7D/ pile, 1-2 rips)	0 0	0 017/08/6 27-Aug-19 A	17-Apr-20	27-Aug-21	03-Sep-21	0																			
PORILUT.HP1010	Alternative PBSH (7D/pile, UP40,35,38,33,36,31,26,21,28,16,11,15,10,13,6	28 93	0 017/08(6 27-Aug-19A	16-Dec-19	27-Aug-21	27-Aug-21	0	100%																1		
PORIILUT.HP1020	Alternative PBSH (7D/pile, UP30,37,32,23,25,20,18,27,22,17,12,14,19,24,2	45 82	0 017/08(6 15-Oct-19 A	21-Jan-20	03-Sep-21	03-Sep-21	0	100%																		
PORILUT.HP1410	Pile Loading Test (28D Concrete Cube + 14D Setup)	33 8	0 017/08(6 06-Apr-20 A	17-Apr-20	03-Sep-21	03-Sep-21	0	100%																		
Construction of U-trough	Structure	637 488	187 16-Mar-20 A	28-Jun-22	28-Aug-21	30-Sep-23	375					1				🗸 28 Ju	n-22, Const	uction a	f U-trough	Structure						
PORILUT.ST1010 PORILUT.ST1025	Excavation to Pile Cap Founding Level (+4.4mPD to +3.8mPD)(2000m3) Trimming of Pile Head and Installation of Capping Bate	15 72 60 50	0 017/08(6 16-Mar-20 A 0 017/08(6 06-May-20 A			03-Sep-21 03-Sep-21	0	100%								ų			-							
PORILUT.ST1025	Review Design on U-trough Structure due to Additional Design Requirement	60 50	0 017/08(6 06-May-20 A	21-Oct-20		03-Sep-21 03-Sep-21	0	100%																		
PORILUT.ST1100	Construction of Base Slab Bay 1	18 16	0 017/08(6 03-Sep-20 A			03-Sep-21	0	100%																		
PORILUT.ST1105	Site Clearance for U-trough Bay 2 to Bay 5 (NCE119)	4 4	0 017/08(6 22-Oct-20 A	27-Oct-20		30-Sep-23	0	100%			ור															
PORILUT.ST1107	Excavation to Revised Formation Level and Construction of New Blinding for	10 15	0 017/08(6 28-Oct-20 A	13-Nov-20	03-Sep-21	03-Sep-21	0	100%																		
PORILUT.ST1110	Construction of Base Slab Bay 2	18 14	0 017/08(6 14-Nov-20 A	30-Nov-20	03-Sep-21	03-Sep-21	0	100%								Î										
PORILUT.ST1115	Excavation to Revised Formation Level, Construction of New Blinding for Bay	10 30	0 017/08(6 30-Oct-20 A	03-Dec-20	03-Sep-21	03-Sep-21	0	100%				1												1		
PORILUT.ST1117	Re-construction of Capping Plate for Bay 3	10 10	0 017/08(6 02-Dec-20 A	14-Dec-20	03-Sep-21	03-Sep-21	0	100%				1					1							1		
PORILUT.ST1120	Construction of Base Slab Bay 3	18 12	0 017/08(6 15-Dec-20 A	30-Dec-20		03-Sep-21	0	100%			-	1												1		
PORILUT.ST1125	Re-construction of Capping Plate for Bay 4	10 13	0 017/08(6 15-Dec-20 A	31-Dec-20		03-Sep-21	0	100%								<u>.</u>			ļļ.					ļļ		
PORILUT.ST1130	Construction of Base Slab Bay 4	18 9	0 017/08(6 07-Jan-21 A	16-Jan-21		03-Sep-21	0	100%			-	1														
PORILUT.ST1150	Construction of Internal Wall Stem Bay 1	14 12	0 017/08(6 14-Apr-21 A	28-Apr-21		03-Sep-21	0	100%				1					1									
PORILUT.ST1160	Construction of Internal Wall Stem Bay 2 Construction of Internal Wall Stem Bay 3	14 14 14 14	0 017/08(6 22-Feb-21 A 0 017/08(6 18-May-21 A	09-Mar-21 03-Jun-21		03-Sep-21 03-Sep-21	0	100% 100% a	v3			1												1		
PORILUT.ST1170	Construction of Internal Wall Stern Bay 3	14 14	0 017/08(6 01-Apr-21 A	17-Apr-21		03-Sep-21 03-Sep-21	0	100% a	, , , , , , , , , , , , , , , , , , , ,		11															
PORILUT.ST1180	Construction of Internal Wall Stern Bay 5	14 23	0 017/08(6 01-Apr-21 A	11-May-21		03-Sep-21 03-Sep-21	0	100%		╟╊╋	1	+	1			<u> </u>								·		
PORILUT.ST1200	Construction of External Wall Stern Bay 1 (Sea Side)	14 151	6 017/08(6 08-May-21A			03-Sep-21	-58 0	60%		Construct	ion of Exte	mal Wall St	m Bay 1 (Sea	a Sice)												
PORIILUT.ST1210	Construction of External Wall Stern Bay 2 (Sea Side)	14 20	0 017/08(6 26-May-21 A		-	04-Sep-21	0	100%	m Biy2 (S	ea Side)			T	11												
PORIILUT.ST1220	Construction of External Wall Stern Bay 3 (Sea Side)	14 0	14 017/08(6 29-Nov-21		25-Sep-21	12-Oct-21	-53 0	0%			Constructio	on of Extern	l Wal Stem E	Bay 3 (Sna	a Side)											
PORIILUT.ST1230	Construction of External Wall Stern Bay 1 (Land side)	14 14	0 017/08(6 03-May-21 A	18-May-21	04-Sep-21	04-Sep-21	0	100%	Lanteide			J														
PORIILUT.ST1240	Construction of External Wall Stern Bay 2 (Land side)	14 114	2 017/08(6 23-Jun-21 A	16-Nov-21		06-Sep-21	-58 0	85.71%	الإ	Consrue			em Bay2 (La		TT								1		TT	
PORIILUT.ST1241	Construction of External Wall Stern Bay 3 (Land side)	4 0	4 017/08(6 16-Nov-21	20-Nov-21		10-Sep-21	-58	0%	-++-	Çonstr	ution of Ex	demal Wall	item Bay3 (L	and side)								1			
PORIILUT.ST1242	Excavation to Revised Formation Level, Construction of New Blinding for Bay	10 10	0 017/08(6 09-Mar-21 A	19-Mar-21		03-Sep-21	0	100% sv	Blinding f	br Bay €																
PORILUT.ST1243	Construction of Base Slab Bay 5	18 0	18 017/08(6 08-Nov-21	27-Nov-21		24-Sep-21	-53 0	0%		, Papies		Base Slab E					1 1							1		
PORILUT.ST1244	Construction of Internal Wall Stem Bay 6 Backfilling from +5.9mPD to +8.2mPD (8lavers, 5D/laver)	14 0 80 111	14 017/08(6 29-Nov-21 4 017/08(6 26-Jun-21A	14-Dec-21 07-Dec-21		12-Oct-21 28-Sep-21	-53 0 -58 0	0% 95%		H H H			Wall Stem B to +8.2mPD		EDAus	<u> </u>			-					· · · · · · · · · · · · · · · · · · ·		
PORILUT.ST1250	Concrete Barrier and Laying of Cable Duct	60 0	4 J17/08(6 26-Jun-21A 60 D17/08(6 04-Jan-22		24-Sep-21 26-Oct-21	28-Sep-21 06-Jan-22	-58 0	95%			apprining fro	m +5.9mPL	Concrete	(diayers :	Schayen	ofCubi	aburt									
PORII.UT.ST1270	Road Paving	80 0	80 017/08(6 18-Mar-22		07-Jan-22	14-Apr-22	-58	0%	П				Concrete	o Ganio a	and taying	Road	Paving									
Drainage Works		229 152	97 017/08(6 07-May-21 A	01-Apr-22	15-Dec-21	14-Apr-22	11						01-A	vpr-22, 1	ainage W	orks										
PORIILUT.DRA2020	Construction of Drainage SMH011 to SMH010	45 130	0 017/08(6 07-May-21 A	12-Oct-21	15-Dec-21	15-Dec-21	0	100%	Construct	an of Dra	iinage SM⊩	1011 to SMH	0 0													
PORIILUT.DRA2030	Construction of Drainage SMH010 to SMH009	45 59	7 017/08(6 27-Aug-21 A	10-Dec-21	15-Dec-21	22-Dec-21	11 0	85%					SMH010 to s	SMH00			1		1	1				1		
PORIILUT.DRA2050	Laying of Watermains	45 0	45 017/08(6 10-Dec-21	08-Feb-22	23-Dec-21	19-Feb-22	11 0	0%		1111		Laying	of Watermai	ns												
PORIILUT.DRA2060	Laying of Ducting for Power Cable	45 0	45 017/08(6 10-Dec-21		23-Dec-21	19-Feb-22	11	0%				Laying	of Ducting fo	r Power (Cable	<u>.</u>										
PORIILUT.DRA2070	Road Paving	45 0	45 017/08(6 08-Feb-22	01-Apr-22	21-Feb-22	14-Apr-22	11	0%				-	Road	d Paving												
Construction of Semi-Noi PORILUT.NB1020	ise Enclosure (CH13482.1 to 13580.3), Sign Gantry and Directional Sign Construction of Semi-Noise Enclosure CH13482.101 to 13576.309 Main Fra	133 0 75 0	133 017/08(6 07-Dec-21 75 017/08(6 07-Dec-21	25-May-22 11-Mar-22	29-Sep-21 29-Sep-21	14-Apr-22 29-Dec-21	-30 -58 0	0%				· · · · · · ·	Contetructio	n of Ser	2:-May	/22, Con	CH13482.1	Semi-No	se Enclos	ure (CH13	482.1 to 1	13580;3), Si	gn Gantry	and Direction	al Sign	
PORILUT.NB1030	Construction of Semi-Noise Enclosure CH13482.101 to 13576.309 Sub Fran	75 0	75 017/08(6 14-Dec-21	18-Mar-22		06-Jan-22	-58 0	0%			:	: -					re CH13482					nel				
PORILUT.NB1040	Excavation and Construction of Directional Sign Footing DS1	14 0	14 D17/08(6 11-Mar-22	28-Mar-22		21-Feb-22	-30 0	0%				-					Directional S			Gubrian	ino dina i d			1		
PORILUT.NB1050	Backfilling to Formation Level	20 0	20 017/08/6 11-Mar-22	04-Apr-22		21-Mar-22	-12 0	0%				L.			Fornatio			girroot	ing bot							
PORILUT.NB1060	Installation of Directional Sign and Steel Frame	10 0	10 017/08(6 04-Apr-22	20-Apr-22		01-Apr-22	-12 0	0%						Installati	ion of Dire	ectional S	ign and Ste	el Frame								
PORILUT.NB1070	Excavation and Construction of Directional Sign Footing DS2	14 0	14 017/08(6 28-Mar-22	14-Apr-22	22-Feb-22	09-Mar-22	-30 0	0%						Excavatio	n and Co	ristrucior	ign and Ste n of Direction	al Sign	Footing D	52				· · · · · ·		
PORIILUT.NB1080	Backfilling to Formation Level	20 0	20 017/08(6 14-Apr-22	13-May-22	10-Mar-22	01-Apr-22	-30 0	0%									tion Level									
PORIILUT.NB1090	Installation of Directional Sign and Steel Frame	10 0	10 017/08(6 13-May-22	25-May-22	02-Apr-22	14-Apr-22	-30 0	0%				1		ᆞԿ柳	Installat	tion of Di	rectional Sig	n and S	teel Frame			1		1		
ee Protection Works (Port		88 70	0 017/08(6 02-May-19 A	25-Jul-19	14-Apr-22	14-Apr-22											1 1							1		
TP1020	Tree Transplant Works	88 70	0 017/08(6 02-May-19 A			14-Apr-22	0	100%								<u> </u>			ļļ.					l		
odification of Seawall (Po Weather Protection System	rtion II and III)	857 868 48 119	67 017/08(6 01-Dec-18 A 0 017/08(6 01-Dec-18 A		23-Sep-21	30-Sep-23 30-Sep-23	495					27-Jan-22	Modification	or Seave	all (Portior	n I and III	9									
Weather Protection System SW1010	Site Trial for Weather Protection System	48 119	0 017/08(6 01-Dec-18 A 0 017/08(6 01-Dec-18 A	30-Apr-19 03-Dec-18	30-Sep-23 30-Sep-23	30-Sep-23 30-Sep-23	0	100%																		
SW1010	Installation of Temporary Wave Form Wall for Weather Protection (1st layer)	48 48	0 017/08(6 01-Beb-19 A			30-Sep-23	0	100%																1		
SW1030	Installation of Temporary Wave Form Wall for Weather Protection (2nd layer)	14 21	0 017/08(6 02-Apr-19 A	30-Apr-19		30-Sep-23	0	100%																1		
Seawall Modification Type 1		247 172	67 017/08(6 13-Apr-21 A	27-Jan-22	06-Nov-21	27-Jan-22	-1	i i i i i i i i i i i i i i i i i i i				7 27-Jan-22	Seawall Moo	lification	Type 1		11							11		
SW.WWI.1010	Break Concrete Copping for Bay 1	14 14	0 017/08(6 13-Apr-21 A	28-Apr-21		06-Nov-21		100%				1														
SW.WWI.1020	Break Concrete Copping for Bay 2	14 14	0 017/08(6 16-Apr-21 A	03-May-21		06-Nov-21		100%				1														
SW.WWI.1030	Break Concrete Copping for Bay 3	14 14	0 017/08(6 22-Apr-21 A	08-May-21		10-Nov-21		100%				1												1		
SW.WWI.1040	Break Concrete Copping for Bay 4	14 14	0 017/08(6 19-Apr-21 A	05-May-21		10-Nov-21		100%		╟┊╢┼		·+				∦ 			ļļ					ļļ		
SW.WWI.1050	Break Concrete Copping for Bay 5	14 14 14 14	0 017/08(6 17-Apr-21 A	04-May-21 12-May-21		10-Nov-21 10-Nov-21		100%				1														
SW.WWI.1060	Break Concrete Copping for Bay 6 Break Concrete Copping for Bay 7	14 14	0 017/08(6 26-Apr-21 A 0 017/08(6 05-May-21 A			10-Nov-21 10-Nov-21		100%																		
SW.WWI.1070	Break Concrete Copping for Bay 7 Break Concrete Copping for Bay 8	14 14	0 017/08(6 05-May-21A 0 017/08(6 14-May-21A			10-Nov-21		100%																		
SW.WWI.1000	Break Concrete Copping for Bay 9	14 14	0 017/08(6 24-May-21A			24-Nov-21	+ +-	100%																		
SW.WWI.1100	Break Concrete Copping for Bay 10	14 0			03-Dec-21		23	0%		Break	Concrete 0	opping for l	lay 10				+							·	-++-	
SW.WWI.1110	Construction of Seawall Modification Type I Bay 1 (1st Pour)	12 40	0 017/08(6 08-May-21A					100% lic	ation Type	Bay 1 (Ist Pour)	Copping for I														
SW.WWI.1111	Construction of Seawall Modification Type 1 Bay 1 (2nd Pour)	12 20	0 017/08(6 28-Jun-21 A	21-Jul-21	06-Nov-21	06-Nov-21		100% al	Monificati	hii Tyniel 1	Báy 1 (2n)	diPour) i														
SW.WWI.1112	Construction of Seawall Modification Type 1 Bay 1 (Coping)	6 36	6 017/08(6 24-Sep-21A	13-Nov-21	13-Nov-21	20-Nov-21	6	0%		Construct	iort of Sea	wall Modifica	tion Type 1 B	ay 1 (Cop	oing)							1				
SW.WWI.1120	Construction of Seawall Modification Type I Bay 2 (1st Pour)	12 16	0 017/08(6 28-Jun-21 A			06-Nov-21		100%	Vod	Type I B	ion of Sear ay 2 (1st P uction of Se	our)	.			<u>.</u>			<u> </u>					ļļ.		
SW.WWI.1121	Construction of Seawall Modification Type I Bay 2 (2nd Pour)	12 49	12 017/08(6 08-Sep-21 A	20-Nov-21	06-Nov-21	20-Nov-21	-1	0%		Çonsn	uction of Se	aawall Modifi	ation Type II	Bay 🕈 (Ph	nd Pour)	8							1	1		
	1															N-4				D- · ·						_
Actual Level of Effo	ort 🔶 Milestone			Contra	act No.: N	NE/2017/0)8		1	-						Date	-			Revisio				Checke	d	App
Actual Work		工程拓展署	C			seung Kw			1	/					08-Ma		Mont	hly Pro	ogramn	ne Upda	ate (Ma	r 2021)	1	rL	St	L
				•					1						08-Ma		Mont	hy Pro	ogramm	e Upda	ate (May	(2021)		CkT	St	L_
Remaining Work		Engineering and		load D9	and Asso	ociated W	orks			D			Kir	0	08-Ju	I-21	Mont	hly Pro	ogramn	ne Upda	ate (Jul:	2021)		CKT	St	Ĺ
	Mork Deve	lopment Depart	ment		Page 21 of	26									16-Se			-	-			/				
Critical Remaining	WUIK		052013		1 450 21 01	20									16-50	n-21	Anna	eratio	n Progr	amme			11	CKT	St	

	Activity Name		Actual Remaining	g Calendar Start	Finish	Late Start	Late Finish	Total TR/	A Activity %							2022								2023	
- SIMUMAN 4400	Construction of Rescuel Medification Track Drug (Partice)	Duration Du			27.101	20 No: 04	07 No. 04	Float	Complete 0%								ul Aug	Sep	Oct	Nov	Dec Ja	in Feb	Mar Apr	r May	Jun
SW.WWI.1122 SW.WWI.1130	Construction of Seawall Modification Type I Bay 2 (Coping)	12		6 D17/08(6 22-Nov-21 0 D17/08(6 16-Jul-21 A	27-Nov-21 30-Jul-21		27-Nov-21 10-Nov-21	-1	100% awall 10		Construction	of Seawall M (1st Pour)	odification	iype i Bay	2 (Coping	D									
	Construction of Seawall Modification Type I Bay 3 (1st Pour)	12								ouncauon	Type T Bay	(19(Pour)													
SW.WWI.1131	Construction of Seawall Modification Type I Bay 3 (2nd Pour)	12		0 017/08(6 30-Jul-21 A	27-Aug-21		19-Nov-21		100% in of Se	eawal woo	incation lyp	IBay 3 (2n	a Pour)	-											
SW.WWI.1132	Construction of Seawall Modification Type I Bay 3 (Coping)	6		6 017/08(6 29-Nov-21	04-Dec-21		04-Dec-21	-1	0%			n of Seawal		1 lype l La	iy 3 (Copir	ng)									
SW.WWI.1140	Construction of Seawall Modification Type I Bay 4 (1st Pour)	12		0 017/08(6 30-Jul-21 A	27-Aug-21	10-Nov-21	10-Nov-21		100% in of Se			IBay4(1s													
SW.WWI.1141	Construction of Seawall Modification Type I Bay 4 (2nd Pour)	12	19 (0 017/08(6 31-Aug-21 A	23-Sep-21	19-Nov-21	19-Nov-21		100% nstruction	on of Sea	wal Modifica	ion Type I B	ay 4 (2nd Po	our)											
SW.WWI.1142	Construction of Seawall Modification Type I Bay 4 (Coping)	6	0 6	6 017/08(6 06-Dec-21	11-Dec-21	04-Dec-21	11-Dec-21	-1	0%		Constru	ion of Seaw	all Nodificat	ion Type I	Eily 4 (Co	ping)									
SW.WWI.1150	Construction of Seawall Modification Type I Bay 5 (1st Pour)	12	7 (0 017/08(6 31-Aug-21 A	08-Sep-21	10-Nov-21	10-Nov-21		100% iction	f Seawal	Modification	iype I Bay 5	(1st Pour)												
SW.WWI.1151	Construction of Seawall Modification Type I Bay 5 (2nd Pour)	12	17 0	0 017/08(6 20-Sep-21 A	12-Oct-21	19-Nov-21	19-Nov-21		100% Co	structon	f Seawall M	dification Ty	be I Bay \$ (2	nd Pour											
SW.WWI.1152	Construction of Seawall Modification Type I Bay 5 (Coping)	6	0 6	6 017/08(6 13-Dec-21	18-Dec-21	11-Dec-21	18-Dec-21	-1	0%		Const	uction of Sea	wal Modific	ation Type	Bay 5 (C	Coping)			T			1 1			1
SW.WWI.1160	Construction of Seawall Modification Type I Bay 6 (1st Pour)	12		0 017/08(6 09-Sep-21 A		10-Nov-21	10-Nov-21		100% Construe																
SW.WWI.1161	Construction of Seawall Modification Type I Bay 6 (2nd Pour)	12		0 017/08(6 04-Oct-21 A	02-Nov-21	19-Nov-21	19-Nov-21		100%			all Modificat			Prur)										
SW.WWI.1162		6			29-Dec-21		29-Dec-21	-1	0%			struction of				6 (Conin		1	1	1		1 1			1 1
SW.WWI.1102	Construction of Seawall Modification Type I Bay 6 (Coping)	12		7 017/08(6 02-Jul-21 A 0 017/08(6 05-Oct-21 A	29-De0-21 20-Oct-21	10-Nov-21	10-Nov-21	-1	100%			Addification				d (uopin	"								
	Construction of Seawall Modification Type I Bay 7 (1st Pour)																								
SW.WWI.1171	Construction of Seawall Modification Type I Bay 7 (2nd Pour)	12		4 017/08(6 05-Nov-21 A			24-Nov-21	11	66.67%	- Hons		awall Modifi				11									
SW.WWI.1172	Construction of Seawall Modification Type I Bay 7 (Coping)	6		6 017/08(6 30-Dec-21	06-Jan-22		06-Jan-22	-1	0%			onstruction					ing)					1 1			
SW.WWI.1180	Construction of Seawall Modification Type I Bay 8 (1st Pour)	12	0 12	2 017/08(6 08-Nov-21	20-Nov-21	10-Nov-21	24-Nov-21	3	0%	Р 🔲 🗘		Seawall Mo													
SW.WWI.1181	Construction of Seawall Modification Type I Bay 8 (2nd Pour)	12	0 12	2 017/08(6 22-Nov-21	04-Dec-21	24-Nov-21	08-Dec-21	3	0%		Constructi	n of Seawal	Modification	n Type I Ba	n <mark>y</mark> B (2nd I	Pour)									
SW.WWI.1182	Construction of Seawall Modification Type I Bay 8 (Coping)	6	0 /	6 017/08(6 07-Jan-22	13-Jan-22	06-Jan-22	13-Jan-22	-1	0%		└ ⊷∎	Constructio	n of Seawall	Modificati	or Type II	Bay 6 (C	ping)								
SW.WWI.1190	Construction of Seawall Modification Type I Bay 9 (1st Pour)	12		2 017/08(6 22-Nov-21	04-Dec-21	24-Nov-21	08-Dec-21	3	0%	14		n of Seawal							+						r†
SW.WWI.1191	Construction of Seawall Modification Type I Bay 9 (2nd Pour)	12		2 017/08(6 06-Dec-21	18-Dec-21		22-Dec-21	3	0%			uction of Se													
SW.WWI.1192	Construction of Seawall Modification Type I Bay 9 (Coping)		-	6 017/08(6 14-Jan-22	20-Jan-22		20-Jan-22	-1	0%				on of Seaw				Coning)								
SW.WWI.1192		12						-1	0%																
	Construction of Seawall Modification Type I Bay 10 (1st Pour)			2 017/08(6 06-Dec-21	18-Dec-21		06-Jan-22				Const		wal Modific					1	: 1						
SW.WWI.1201	Construction of Seawall Modification Type I Bay 10 (2nd Pour)	12		2 017/08(6 20-Dec-21	05-Jan-22		20-Jan-22	13	0%	. .			f Seawall M						L						L
SW.WWI.1202	Construction of Seawall Modification Type I Bay 10 (Coping)	6		6 017/08(6 21-Jan-22			27-Jan-22	-1	0%		91 - C ¹		lction of Sea		ication Typ	pe l Bay	0 (Coping)								
SW.WWI.1212	UU & TCSS Duct Laying	28	0 2'	8 017/08(6 20-Dec-21	24-Jan-22	22-Dec-21	27-Jan-22	3	0%		: +====	UU & TO	SS Duct La	ying					1						
Seawall Modification Type	2	160	308 (0 017/08(6 23-Oct-20 A	08-Nov-21	23-Sep-21	23-Sep-21	-36		🕇 oblivio	21, Seaw	Modification	Type 2												
SW.WWII.1010	Starter Bar Construction on Seawall Coping for Seawall Modification Type 2	60	60 0	0 017/08(6 23-Oct-20 A	05-Jan-21	23-Sep-21	23-Sep-21		100%																
SW.WWII.1020	Installation of Steel Bracket at Seawall Coping for Construction of Seawall M	45		0 017/08(6 20-Nov-20 A		23-Sep-21	23-Sep-21		100% dification	TVC									1						1
SW.WWII.1020	Construction of Seawall Modification Type II Bay 1	10		0 017/08(6 22-Dec-20 A			23-Sep-21		100%		<u> </u>	+-+			H -++-	+8			}	·····		·			<u></u> +}
		10					23-Sep-21 23-Sep-21	-	100%																
SW.WWII.1040	Construction of Seawall Modification Type II Bay 2 Construction of Seawall Modification Type II Bay 3			0 017/08(6 22-Dec-20 A												18			1						
SW.WWII.1050		10		0 017/08(6 22-Dec-20 A			23-Sep-21		100%																
SW.WWII.1060	Construction of Seawall Modification Type II Bay 4	10	41 (0 017/08(6 22-Dec-20 A	10-Feb-21	23-Sep-21	23-Sep-21		100%																
SW.WWII.1070	Construction of Seawall Modification Type II Bay 5	10	29 0	0 017/08(6 22-Dec-20 A	27-Jan-21	23-Sep-21	23-Sep-21		100%													1 1			
SW.WWII.1080	Construction of Seawall Modification Type II Bay 6	10	10 0	0 017/08(6 24-Feb-21 A	06-Mar-21	23-Sep-21	23-Sep-21		100%							10		1	· · · · · ·						T
SW.WWII.1090	Construction of Seawall Modification Type II Bay 7	10	10 0	0 017/08(6 09-Mar-21 A	19-Mar-21		23-Sep-21		100%									1	1 1	1					
SW.WWII.1100	Construction of Seawall Modification Type II Bay 8	10	10 (0 017/08(6 01-Apr-21 A	16-Apr-21	23-Sep-21	23-Sep-21		100%																
SW.WWII.1110	Construction of Seawall Modification Type II Bay 9	10		0 017/08(6 17-Apr-21 A			23-Sep-21		100% y 9																
SW.WWIL1120		10		0 017/08(6 29-Apr-21 A			23-Sep-21	-36	100%													1 1			
	Construction of Remaining Seawall Modification Type II at U-trough (Bay 10-	779	667 112	2 09-Aug-19 A		27-Sep-21	30-Sep-21	450	100 %	0,0181	deaon on re	naining Sea	vialit ivio di la	Adam of a		ugif (Da)	10-13)	d'annie							
Construction of the At-gra	rainage (SMH003 to SMH008)	300		0 017/08/6 09-Aug-19 A	05 Aur 00	27-060-21	15-Dec-21	430					16	-wai-24, 5	cusupcio	in or une.		100 001111 121				1 1			
PORILAG.1010	Excavation from +5.5mPD to +3.5mPD for SMH003 to SMH007 (inlcude Der	300		0 017/08(6 09-Aug-19 A	14-Nov-19	27-Sep-21 27-Sep-21	27-Sep-21	0	100%																
		10							100%	יוור															
PORIILAG.1015	Road Diversion at XYZ Junction			0 017/08(6 14-Oct-19 A			27-Sep-21	0										1	1 1	1		1 1			
PORIILAG.1020	Excavation of Drainage Trench (maximum up to +2.0mPD) for SMH003 to SI	7		0 017/08(6 12-Sep-19 A			27-Sep-21	0	100%							ji		.1	L	l					LL
PORIILAG.1030	Manhole Construction for SMH003 to SMH006 (14D/manhole, 2 teams)	28	36 0	0 017/08(6 16-Sep-19 A	29-Oct-19	27-Sep-21	27-Sep-21	0	100%																
PORIILAG.1035	Laying of Drainage Pipe SMH003 to SMH006	14	21 0	0 017/08(6 23-Oct-19 A	15-Nov-19	27-Sep-21	27-Sep-21	0	100%									1							
PORIILAG.1040	Backfilling of Drainage Trench for SMH003 to SMH006	14	21 0	0 017/08(6 23-Oct-19 A	15-Nov-19	27-Sep-21	27-Sep-21	0	100%																
PORILAG.1042	Manhole Construction for SMH007 (14D/manhole)	14	7 (0 017/08(6 14-Nov-19 A	21-Nov-19	27-Sep-21	27-Sep-21	0	1000/																: :
									100%																
	Laving of Drainage Pine SMH006 to SMH007	7	6 (28-Nov-19	27-Sen-21	27-Sen-21	0										-+	+			++			
PORILAG.1044 PORILAG.1046	Laying of Drainage Pipe SMH006 to SMH007	7		0 017/08(6 22-Nov-19 A			27-Sep-21	0	100%						*****										
PORILAG.1046	Backfilling of Drainage Trench for SMH006 to SMH007	7	6 (0 017/08(6 22-Nov-19 A 0 017/08(6 22-Nov-19 A	28-Nov-19	27-Sep-21	27-Sep-21	0	100% 100%										: :			1 1			
 PORIILAG.1046 PORIILAG.1047 	Backfilling of Drainage Trench for SMH006 to SMH007 Confirmation of Location of Manhole and Drainage Alignment	7 14 30	6 (101 (0 017/08(6 22-Nov-19 A 0 017/08(6 22-Nov-19 A 0 017/08(6 29-Nov-19 A	28-Nov-19 01-Apr-20	27-Sep-21 15-Dec-21	27-Sep-21 15-Dec-21	0	100% 100% 100%																
 PORIILAG.1046 PORIILAG.1047 PORIILAG.1048 	Backfilling of Drainage Trench for SMH006 to SMH007 Confirmation of Location of Manhole and Drainage Alignment Sheet Piles Installation SMH008 Construction (~20m length)	7 14 30 3	6 (0 101 (0 6 (0	0 D17/08(6 22-Nov-19 A 0 D17/08(6 22-Nov-19 A 0 D17/08(6 29-Nov-19 A 0 D17/08(6 26-Jun-20 A	28-Nov-19 01-Apr-20 03-Jul-20	27-Sep-21 15-Dec-21 15-Dec-21	27-Sep-21 15-Dec-21 15-Dec-21	0	100% 100% 100% 100%																
 PORIILAG.1046 PORIILAG.1047 PORIILAG.1048 PORIILAG.1048-01 	Backfilling of Drainage Trench for SM+006 to SM+007 Confirmation of Location of Manhole and Dainage Alignment Sheet Piles Instalation SM+006 Construction (-Zom length) Excavation to Formation Level for SM+008 Construction	7 14 30 3 3	6 00 101 00 6 00 3 00	0 017/08(6 22-Nov-19 A 0 017/08(6 22-Nov-19 A 0 017/08(6 29-Nov-19 A 0 017/08(6 29-Nov-19 A 0 017/08(6 26-Jun-20 A 0 017/08(6 04-Jul-20 A	28-Nov-19 01-Apr-20 03-Jul-20, 07-Jul-20,	27-Sep-21 15-Dec-21 15-Dec-21 15-Dec-21	27-Sep-21 15-Dec-21 15-Dec-21 15-Dec-21	0 0 0 0	100% 100% 100% 100% 100%																
 PORIILAG.1046 PORIILAG.1047 PORIILAG.1048 PORIILAG.1048-01 PORIILAG.1048-02 	Baddfilling of Drainage Trench for SM+1006 to SM+1007 Confirmation of Location of Wenhole and Dianage Alignment Sheet Piles Installation SM+1008 Construction (-20m length) Exeruation to Formation Level for SM+1008 Construction Manhole Construction for SM+1008 (14D/manhole)	7 14 30 3	6 00 101 00 6 00 3 00 16 00	0 017/08/6 22-Nov-19 A 0 017/08/6 22-Nov-19 A 0 017/08/6 29-Nov-19 A 0 017/08/6 29-Nov-19 A 0 017/08/6 26-Jun-20 A 0 017/08/6 04-Jul-20 A 0 017/08/6 08-Jul-20 A	28-Nov-19 01-Apr-20 03-Jul-20, 07-Jul-20, 25-Jul-20,	27-Sep-21 15-Dec-21 15-Dec-21 15-Dec-21 15-Dec-21	27-Sep-21 15-Dec-21 15-Dec-21 15-Dec-21 15-Dec-21	0 0 0 0	100% 100% 100% 100% 100% 100%																
PORILAG.1046 PORILAG.1047 PORILAG.1047 PORILAG.1048 PORILAG.1048-01 PORILAG.1048-02 PORILAG.1048-03	Backfilling of Drainage Trench for SM+006 to SM+007 Confirmation of Location of Manhole and Dainage Alignment Sheet Piles Instalation SM+006 Construction (-Zom length) Excavation to Formation Level for SM+008 Construction	7 14 30 3 3	6 00 101 00 6 00 3 00 16 00	0 017/08(6 22-Nov-19 A 0 017/08(6 22-Nov-19 A 0 017/08(6 29-Nov-19 A 0 017/08(6 29-Nov-19 A 0 017/08(6 26-Jun-20 A 0 017/08(6 04-Jul-20 A	28-Nov-19 01-Apr-20 03-Jul-20, 07-Jul-20,	27-Sep-21 15-Dec-21 15-Dec-21 15-Dec-21	27-Sep-21 15-Dec-21 15-Dec-21 15-Dec-21	0 0 0 0	100% 100% 100% 100% 100% 100%																
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NE/2017/	08 Monthly Program	mme Update				Contract No.: N	E/2017/08	Cross B	ay Link, Ts	eung Kwar	n O - Roa	ad D9 ar	nd Assoc	iated Wo	rks											
Activity ID		Activity Name			ctual Remaining ation Duration	Calendar Start	Finish	Late Start	Late Finish	Total TRA Float	Activity % Complete	at New	L Du	In Cab			2022	tot Arre	0			las Est	2023	Maria I.	har I I	1 1 4 1 1
	PORIILAG.1060-00	Construction of Blinding for Bay NB-N1 to N1	1	10		017/08(6 14-Nov-19	A 25-Nov-19	27-Sep-21	27-Sep-21	0	100%	ct Nov	Dec	Jan Feb	Mar Ap	or May	Jun	Jul Aug	Sep	Oct	Nov Dec	Jan Feb	Mar Apr	May J	Jun J	ul Aug
		Construction of Pad Footing Bay NB-N7, 9, 1		15	19 0	017/08(6 26-Nov-19	A 17-Dec-19	27-Sep-21	27-Sep-21	0	100%															
		Construction of Pad Footing Bay NB-N5, 8, 1		15	16 0	017/08(6 06-Dec-19	A 24-Dec-19	27-Sep-21	27-Sep-21	0	100%															
		Construction of Pad Footing Bay NB-N3, 6 B		15		017/08(6 27-Dec-19			27-Sep-21	0	100%															
		Construction of Pad Footing Bay NB-N2, 4 B		15		017/08(6 02-Jan-20			27-Sep-21	0	100%															
	PORILAG.1290 PORILAG.1410	Construction of Pad Footing Bay NB-N1 Base Construction of Pad Footing Bay NB-N12 Ba		10		017/08(6 02-Mar-20 017/08(6 06-Jun-20		06-Nov-21 15-Dec-21	06-Nov-21 15-Dec-21	0	100%				·+					ļļ						
	PORILAG.1410	Construction of Pad Footing Bay NB-N12 Ba Construction of Pad Footing Bay NB-N13 Ba		10		017/08(6 19-Jun-20		15-Dec-21	15-Dec-21	0	100%															
	PORILAG.1430	Construction of Pad Footing Bay NB-N14 Ba		10		017/08(6 11-Jun-20		15-Dec-21	15-Dec-21	0	100%															
	PORIILAG.1440	Construction of Pad Footing Bay NB-N15 Ba		10	13 0	017/08(6 20-Jun-20	A 07-Jul-20	15-Dec-21	15-Dec-21	0	100%															
	PORIILAG.1450	Construction of Pad Footing Bay NB-N16 Ba	se Slab	10	29 0	017/08(6 09-Jul-20 A	11-Aug-20	15-Dec-21	15-Dec-21	0	100%															
	PORIILAG.1460	Construction of Pad Footing Bay NB-N17 Ba		12		017/08(6 05-Jul-21 /	-		27-Sep-21	0	100% io			-N17 Base Sl												
	PORIILAG.1470	Construction of Pad Footing Bay NB-N18 Ba	ise Slab	12		017/08(6 13-Sep-21		11-Dec-21	11-Dec-21	0	100% on	struction of		BarNB-N18 E	Balse Slab											
	PORILAG 1060-11(Excavation for Construction of Bay NB-N1, N	R-\$1-\$6	535 10	516 10 9 0	01-Feb-20 017/08(6 10-Feb-20		27-Sep-21 06-Nov-21	03-Dec-21 06-Nov-21	13 0	100%		18-Nov-21, S	South Bound												
		Home Quarantine due to Wuhan Pneumonia		14		017/08(7 01-Feb-20		06-Nov-21	06-Nov-21	0	100%															
		Plate Loading Test for NB-S1-S6		7		017/08(6 20-Feb-20		06-Nov-21	06-Nov-21	0	100%															
	PORIILAG.1060-113	Construction of Blinding for Bay NB-S1-S6		10	4 0	017/08(6 26-Feb-20	A 29-Feb-20	06-Nov-21	06-Nov-21	0	100%															
		Construction of Pad Footing Bay NB-S1, S3		15		017/08(6 29-Feb-20		06-Nov-21	06-Nov-21	0	100%															
	PORILAG.1300	Construction of Pad Footing Bay NB-S2 Base		10		017/08(6 10-Mar-20		06-Nov-21	06-Nov-21	0	100%															
	PORILAG.1310	Construction of Pad Footing Bay NB-S4 Base		10		017/08(6 10-Mar-20		06-Nov-21	06-Nov-21	0	100%	¦∦. ∦	;-; -;;			···÷- -	·++-++									
	PORILAG.1320	Construction of Pad Footing Bay NB-S6 Base Excavation for Construction of Bay NB-S7-S1		10		017/08(6 11-Mar-20 017/08(6 17-Mar-20		06-Nov-21 06-Nov-21	06-Nov-21 06-Nov-21	0	100%								1							
	PORILAG.1330	Construction of Blinding for Bay NB-S7-S10		5		017/08(6 28-Mar-20		06-Nov-21	06-Nov-21	0	100%															
	PORIILAG.1350	Construction of Pad Footing Bay NB-S5 Base	e Slab	10		017/08(6 19-Mar-20		06-Nov-21	06-Nov-21	0	100%															
	PORIILAG.1360	Construction of Pad Footing Bay NB-S7 Base		10	6 0	017/08(6 03-Apr-20	A 14-Apr-20	06-Nov-21	06-Nov-21	0	100%															
	PORIILAG.1370	Construction of Pad Footing Bay NB-S8 Base		10		017/08(6 16-Apr-20		06-Nov-21	06-Nov-21	0	100%															
	PORIILAG.1380	Construction of Pad Footing Bay NB-S9 Base		10		017/08(6 28-Apr-20			06-Nov-21	0	100%															
	PORILAG.1390	Construction of Pad Footing Bay NB-S10 Ba		10		017/08(6 19-May-20 017/08(6 30-May-20		06-Nov-21	06-Nov-21	0	100% 100%															
	PORILAG.1400	Construction of Pad Footing Bay NB-S11 Bas Construction of Pad Footing Bay NB-S12 Ba		10		017/08(6 30-May-20 017/08(6 19-Jun-20		06-Nov-21 06-Nov-21	06-Nov-21 06-Nov-21	0	100%															
	PORILAG. 1480	Construction of Pad Footing Bay NB-S12 Ba Construction of Pad Footing Bay NB-S13 Ba		10		017/08(6 19-Jun-20 017/08(6 30-Jun-20		06-Nov-21	06-Nov-21	0	100%	 -	H+++++		+	····	++-+									
	PORILAG.1500	Construction of Pad Footing Bay NB-S14 Ba		10		017/08(6 08-Jul-20		06-Nov-21	06-Nov-21	0	100%															
	PORIILAG.1510	Construction of Pad Footing Bay NB-S15 Ba		10		017/08(6 14-Sep-20		06-Nov-21	06-Nov-21	0	100%															
	PORIILAG.1520	Construction of Pad Footing Bay NB-S16 Ba		10		017/08(6 02-Sep-20		06-Nov-21	06-Nov-21	0	100%															
	PORIILAG.1530	Construction of Pad Footing Bay NB-S17 Ba		10		017/08(6 02-Jul-21 /			27-Sep-21	0	100%	Const	uction of Pad	l Feoting Bay	NB-S 7 Base S	ilab		.								
	PORIILAG.1540	Construction of Pad Footing Bay NB-S18 Ba	ise Slab	10	0 10	017/08(6 08-Nov-21	18-Nov-21	23-Nov-21	03-Dec-21	13 0	0%		Construction	of Pact Footin	g Bay NB-S18 I	Base Slab										
	Wall Stem South Bound			512 505	485 20 205 20	017/08(6 17-Mar-20 017/08(6 19-Mar-20	A 30-Nov-21 A 30-Nov-21	20-Oct-21	15-Dec-21 15-Dec-21	13 13			30-Nov-2	1, Val Stem 1, South Bou												
	PORILAG.1550	Construction of Pad Footing Bay NB-S1 Wal	Stem	10		017/08(6 19-Mar-20		06-Nov-21	06-Nov-21	0	100%			., opdar Bou	7											
	PORIILAG.1560	Construction of Pad Footing Bay NB-S2 Wal		10		017/08(6 24-Mar-20		06-Nov-21	06-Nov-21	0	100%															
	PORIILAG.1570	Construction of Pad Footing Bay NB-S3 Wal		10	29 0	017/08(6 20-Mar-20		06-Nov-21	06-Nov-21	0	100%								1						1	
	PORIILAG.1580	Construction of Pad Footing Bay NB-S4 Wal		10		017/08(6 24-Mar-20		06-Nov-21	06-Nov-21	0	100%															
	PORIILAG.1590	Construction of Pad Footing Bay NB-S5 Wal		10		017/08(6 12-Jun-20		06-Nov-21	06-Nov-21	0	100%															
	PORILAG.1600	Construction of Pad Footing Bay NB-S6 Wall		10		017/08(6 15-May-20		06-Nov-21 06-Nov-21	06-Nov-21 06-Nov-21	0	100% 100%															
	PORILAG.1610	Construction of Pad Footing Bay NB-S7 Wal Construction of Pad Footing Bay NB-S8 Wal		10		017/08(6 20-May-20 017/08(6 19-May-20		06-Nov-21 06-Nov-21	06-Nov-21 06-Nov-21	0	100%								-+							
	PORILAG.1620	Construction of Pad Footing Bay NB-S8 Wall		10		017/08(6 19-May-20 017/08(6 20-May-20		06-Nov-21	06-Nov-21	0	100%															
	PORILAG.1640	Construction of Pad Footing Bay NB-S10 Wa		10		017/08(6 01-Jun-20		15-Dec-21	15-Dec-21	0	100%															
	PORIILAG.1650	Construction of Pad Footing Bay NB-S11 Wa		10		017/08(6 30-Jun-20		06-Nov-21	06-Nov-21	0	100%															
	PORIILAG.1660	Construction of Pad Footing Bay NB-S12 Wa	al Stem	10	21 0	017/08(6 18-Jul-20 /	11-Aug-20	06-Nov-21	06-Nov-21	0	100%															
	PORIILAG.1670	Construction of Pad Footing Bay NB-S13 Wa		10		017/08(6 14-Jul-20 A		06-Nov-21	06-Nov-21	0	100%															
	PORILAG.1680	Construction of Pad Footing Bay NB-S14 Wa		10		017/08(6 24-Jul-20 /		06-Nov-21	06-Nov-21	0	100%															
	PORILAG.1690	Construction of Pad Footing Bay NB-S15 Wa		10		017/08(6 29-Sep-20		06-Nov-21	06-Nov-21	0	100%								1							
	PORILAG.1700	Construction of Pad Footing Bay NB-S16 Wa Construction of Pad Footing Bay NB-S17 Wa		10		017/08(6 15-Sep-20 017/08(6 08-Nov-21		06-Nov-21 23-Nov-21	06-Nov-21 03-Dec-21	0	100% 0%		Construction	of Bad Footin	g Bay NB-\$17 \	Nalisian			1							
	PORILAG.1710	Construction of Pad Footing Bay NB-S17 Wa		10		017/08(6 19-Nov-21	30-Nov-21	23-140V-21 04-Dec-21	15-Dec-21	13 0	0%		Constnuct	tion of Pad Fr	g Bay NB-\$17 \ oling Bay NB-S	18 Wal Ser			-+							
	PORILAG.1910	Backfilling to Interim Formation Level (7 Laye		35		017/08(6 17-Jun-20		15-Dec-21	15-Dec-21	0	100%				1,20				1							
	PORIILAG.1920	Backfilling to Interim Formation Level (7 Laye		35		017/08(6 15-Oct-20		15-Dec-21	15-Dec-21	0	100%															
	North Bound		-			017/08(6 17-Mar-20		20-Oct-21	15-Dec-21		-	05 4	dv-21 A, Nor	th Bound												
	PORILAG.1730	Construction of Pad Footing Bay NB-N1 Wal		10		017/08(6 17-Mar-20		15-Dec-21	15-Dec-21	0	100%	 -	H.I					.		ļļ					····-	
	PORILAG.1740	Construction of Pad Footing Bay NB-N2 Wall		10		017/08(6 31-Mar-20 017/08(6 17-Mar-20		15-Dec-21 15-Dec-21	15-Dec-21 15-Dec-21	0	100%															
	PORILAG.1750	Construction of Pad Footing Bay NB-N3 Wall Construction of Pad Footing Bay NB-N4 Wall		10		017/08(6 17-Mar-20 017/08(6 31-Mar-20		15-Dec-21 15-Dec-21	15-Dec-21 15-Dec-21	0	100%															
	PORILAG.1770	Construction of Pad Footing Bay NB-N5 Wal		10		017/08(6 31-Mar-20		15-Dec-21	15-Dec-21	0	100%															
	PORILAG.1780	Construction of Pad Footing Bay NB-N6 Wal		10		017/08(6 31-Mar-20		15-Dec-21	15-Dec-21	0	100%															
	PORIILAG.1790	Construction of Pad Footing Bay NB-N7 Wal	Stem	10	84 0	017/08(6 31-Mar-20	م 15-Jul-20	15-Dec-21	15-Dec-21	0	100%									[]						
		Construction of Pad Footing Bay NB-N8 Wal				017/08(6 02-Apr-20				0	100%															
		Construction of Pad Footing Bay NB-N9 Wal		10		017/08(6 02-Apr-20				0	100%															
	PORILAG.1820	Construction of Pad Footing Bay NB-N10 Wa				017/08(6 02-Apr-20			15-Dec-21	0	100%															
	PORILAG.1830	Construction of Pad Footing Bay NB-N11 Wa Construction of Pad Footing Bay NB-N12 Wa		10		017/08(6 02-Apr-20 017/08(6 16-Jul-20			15-Dec-21	0	100%	 - 	-		-+	····	++-+-									
	PORILAG.1840	Construction of Pad Footing Bay NB-N12 Wa Construction of Pad Footing Bay NB-N13 Wa				017/08(6 16-Jul-20 /	-			0	100%															
										-			nd I (I 1	1 1 1		8 I I 8	• · ·	1		. i				1	
	Actual Level of Effor	rt 🔶 🔶 Milestone	6			1	Contra	ct No.: N	NE/2017/0	8							Date				Revision		Check	ed	Appro	ved
	Actual Work	summary	-++	工程拓	屈翼												08-Mar-2	1 Mc	onthly Pro	ogramme	e Update (M	ar 2021)	TL	S	ťL	
		• • • ourninery					Cross Bay		-				_				08-May-2		onthy Pro	ogramme	e Update (Ma	ay 2021)	CkT	S	tL	7
	Remaining Work			Engineerin			Road D9 a			orks			Ru	ild	Ki	10	08-Jul-21	Mc	onthly Pro	ogramme	e Update (Ju	ul 2021)	CKT	S	ťL	
	Critical Remaining V	Vork	Deve	lopment D	eparatier]	Page 23 of	26		4		Du	ILU		B	16-Sep-2	1 Ao	celeratio	n Progra	mme		CKT	S	ť	
											-															

	Activity Name				ning Calendar		Finish	Late Start	Bay Link, Te	Total TRA	Activity %		ſ					2022				1			2023		_
			Duration Du							Float	Complete Od	t Nov	Dec	Jan	Feb Mar	Apr	May Ju	un Ju	ul Aug	Sep Oc	ct Nov	Dec	Jan F	eb Mar	Apr Ma	ıy Jun	Ju
PORIILAG.1860	Construction of Pad Footing Bay NB-N14 Wa		10	50	0 017/08(6		11-Sep-20		15-Dec-21	0	100%																
PORIILAG.1870	Construction of Pad Footing Bay NB-N15 Wa		10	36	0 017/08(6		26-Aug-20		15-Dec-21	0	100%											1					
PORIILAG.1880	Construction of Pad Footing Bay NB-N16 Wa		10	9		02-Sep-20 A		-	15-Dec-21	0	100%							. J				<u>.</u>				ļ.,	
PORIILAG.1890	Construction of Pad Footing Bay NB-N17 Wa	al Stem	14	14	0 017/08(6	11-Oct-21 A	27-Oct-21	20-Oct-21	20-Oct-21	0	100%	Const			Bay NB-N 7												
PORIILAG.1900	Construction of Pad Footing Bay NB-N18 Wa	al Stem	10	7	0 017/08(6	28-Oct-21 A	05-Nov-21	11-Dec-21	11-Dec-21	0	100%	-	struction of	Pad Footi	ng Bay NB N	18 Wall Stem						1			1		
Construction of Remaining S	South Drainage (SMH203 to SMH216)		112	0	112 017/08(6	08-Nov-21	24-Mar-22	08-Dec-21	24-Mar-22	-1						24-Mar-22,	Constructio	on of Ren	aining South D	ainage (SMI	H20\$ to SMI	H216)			1		
PORIILAG.1170	Construction of South Drainage SMH203 to S	SMH206	40	0	40 017/08(6	08-Nov-21	23-Dec-21	23-Dec-21	14-Feb-22	39 0	0%		i i i			ainage SMH						1			1		
PORIILAG.1171	Construction of South Drainage SMH207 to S	SMH216	65	0	65 017/08(6	08-Nov-21	25-Jan-22	08-Dec-21	01-Mar-22	27	0%			c a	onstruction o	f South Drain	age SMH20	7 to SM	216								
PORIILAG.1180	Construction of Roadworks		45	0	45 017/08(6	28-Jan-22	24-Mar-22	27-Jan-22	24-Mar-22	-1 0	0%					Constructio	on of Roadw	vorks				1				1	1
Construction of Semi-Noise	Enclosure and Directional Sign		355	265	66 017/08(6	14-Dec-20 A	26-Feb-22	06-Nov-21	14-Apr-22	39						eb 22, Constr		1.11	Enclosure and	Directional S	lign						
PORIILAG.1190	Construction of Semi-Noise Enclosure CH136	635.3 to CH13878 Main Frame	75	199	0 017/08/6	08-Mar-21 A	07-Dec-21	10-Jan-22	10-Jan-22	27 0	100%		Const	ruction of a	Semi-Noise E	ndosure CH1	13685.3 to C	13878	Main Frame			1			1		
PORIILAG.1210	Construction of Semi-Noise Enclosure CH136		60	69		16-Aug-21 A	23-Dec-21	10-Jan-22	27-Jan-22	27 0	75%								878 Sub-frame	and Panel		1 1	1	1	1 1		
PORIILAG.1235	Diversion of Haul Road		14	21		14-Dec-20 A	09-Jan-21	-	06-Nov-21	0	100%											1			1		
PORIILAG.1240	Excavation and Construction of Directional S	ian Easting DC2	14	14		22-May-21 A			15-Feb-22	0	100% ect		odting DS	·		-++-						÷				+	
		igit tooting boo	20	20					15-Feb-22	0	100 % el		i i i i i	111	1	1 1						1 1			1		
PORIILAG.1250	Backfilling to Formation Level					08-Jun-21 A	-																				
PORIILAG.1260	Installation of Directional Sign and Steel Fran		10	106		03-Jul-21 A	03-Jan-22		21-Feb-22	39 0	40%			Installati	on of Directio	nal Sign and	steel Frame	9				1			1		
PORIILAG.2010	Excavation and Construction of Directional S	ign Footing DS7	14	0	14 017/08(6	04-Jan-22	19-Jan-22	22-Feb-22	09-Mar-22	39 0	0%		1	Exc	avation and	Construction	of Directiona	al Sign Fo	oting DS7			1			1		
PORIII.AG.2020	Backfilling to Formation Level		20	0	20 017/08(6	20-Jan-22	15-Feb-22	10-Mar-22	01-Apr-22	39 0	0%			1	Backfillir	ig to Formatio	on Llevel	8				1					
PORIILAG.2021	Civil Provision for At-Grade Road South		30	0	30 017/08(6	06-Dec-21	12-Jan-22	20-Dec-21	27-Jan-22	13	0%		-	Civil F	Provision for A	t-Grade Road	d South				1	1	·····		- T		1
PORIILAG.2030	Installation of Directional Sign and Steel Fram	ne	10	0	10 017/08(6	16-Feb-22	26-Feb-22	02-Apr-22	14-Apr-22	39 0	0%				• 🔲 İnsta	lation of Dire	cional Sign	and Stee	Frame								
n O Road	-		898	735		20-May-19 A	30-May-22		30-Sep-23	399				_					Wan O Road			1			1		
Footpath Excavation Permit			65	63		20-May-19 A			27-Sep-21				11 1			1	III Î	10			1	1 1		1		1.1	
Eootpath North Bound			63	63	0 017/08/6	20-May-19.A	02-Aug-16	27-Aug-21	27-Aug-21												1	1					
TTA Phase 1 (TTA Dia	G: Q1004/WAOR/002A)		21	17	0 017/08/6	20-May-19 A	08-Jun-19	27-Aug-21 27-Aug-21	27-Aug-21 27-Aug-21				+++			· + · · · · · · · ·	╅╋╍┾╋╸	1				++				++	+
	G: Q1004/WAOR/002A)		42	42		10-Jun-19 A	29-Jul-19						11 1			1 1						1 1				11	
	G: Q1004/WAOR/001A)		42	42		17-Jul-19 A	02-Aug-19						11 1									1					
Footpath South Bound			58	58	0 017/08/6	20-May-19.4	27-Jul-19	27-Aug-21	27-Aug-21				11			1					1	1 1		1		1.1	1
TTA Phase 1 (TTA DW	G: Q1004/WAOR/011)		16	14	0 017/08/6	20-May-19 A	04-Jun-19	27-Aug-21	27-Aug-21							1						1					
	G: Q1004/WAOR/004A)		15	16		05-Jun-19 A										-++-		++				++-				t-:	+
	G: Q1004/WAOR/012)		15	12		25-Jun-19 A							11 1														
TTA Phase 4 (TTA DW			16	16		10-Jul-19 A							11 1			1						1 1		1	1		
Other Works			21	18	0 017/08/7	16-Jul-19 A	02-Aug-15	27-Sen-21	27-Sep-21													1					
Carriage Way Excavation P	tmre		832	669	163	07-Aug-19A	30-May-22	27-Aug-21	30-Sep-23	399							10	-May-22,	Camage Way E	xcavation B	ermit	1 1			1		
TTA Stage 1			186	436	0	07-Aug-19A	22-Jan-21	27-Aug-21	30-Sep-23									-2				++-					+
TTA Stage 2			745	582	163	20-Nov-19 A	30-May-22	27-Aug-21	30-Sep-23	399	_						30	100-22	TTA Stage 2			1					
WO.CA.TTA2010	Implementation of TTA Stage 2		1	1		05-Jan-20 A	05-Jan-20	27-Aug-21	27-Aug-21	0	100%		11 1			1			l intolugo 2			1			1		
Northern Portion			686	563	123	12-Dec-19 A	07-Apr-22		30-Sep-23	439						07-00	r 22 North or	r Dortion			1	1			1		
	4nos, 10D/hole + 5D TRA, 1-3 rigs)		36	27	0 017/08/6	02-Mar-20 A	01-Apr-20	27-Aug-21	30-Sep-23	439						01-40	122, NUTURE					1 1			1		
	Inspection Pit for Predrilling Works at Norther	n Roundabout	4	4		11-Mar-20 A	14-Mar-20	-	27-Aug-21	0	100%											++					
							-	-		5	100%											1					
	Predrilling at Northern Roundabout of Wan C		15	8		02-Mar-20 A	10-Mar-20			-												1			1		
	Predrilling at Northern Roundabout of Wan C	и коао (PD77)(Ng5)	15	6		11-Mar-20 A	17-Mar-20		30-Sep-23	5	100%					1						1 1					
	Demobilization of Rig 5 off site		1	1		18-Mar-20 A				0	100%											1					
WO.CA.TTA2NP	Predrilling at Northern Roundabout of Wan C	0 Road (PD76) (Rig3)	15	7	0 017/08(6	25-Mar-20 A	01-Apr-20	27-Aug-21	27-Aug-21	5	100%											1l.					
PBSH Works			245	297	0	12-Dec-19 A	11-Dec-20	27-Sep-21	08-Oct-21				11 1		1	1 1						1 1			1		
WO.CA.TTA2NP	Liasion with CLP and Shifting of CLP cables	at Wan O Road Northern Footp	4	138	0 017/08(7	12-Dec-19 A	27-Apr-20	27-Sep-21	27-Sep-21	0	100%																
WO.CA.TTA2NP	Late Delivery of H-pile due to COVID-19 (NCE	E083)	30	81	0 017/08(7	29-Jan-20 A	18-Apr-20	27-Sep-21	27-Sep-21	0	100%		11 1			1						1			1		
WO.CA.TTA2NP	Review Design on PC60-64 (PMI044)		4	56	0 017/08(6	04-Mar-20 A	14-May-20	27-Sep-21	27-Sep-21	0	100%																
	Discovery of Uncharted CLP Concrete Surrou	und. Liasion with CLP and Revie	30	94		11-Jun-20 A	30-Sep-20		27-Sep-21	0	100%					1 1						1			1		
	Construction of PBSH (23nos, Rig 2) (PC60,		76	199		15-Apr-20 A		27-Sep-21	27-Sep-21	0	100%		+++			-++						++-			-++		+
		01, 03-03)	60	50		11-Mar-20 A			27-Sep-21 27-Sep-21	0	100%														1		
	Review Design on PC57 & PC58 (PMI048)							27-Sep-21														1					
	Construction of PBSH (7nos, Rig 2) (PC57-58		30	76		04-Sep-20 A			27-Sep-21	0	100%																
	Construction of PBSH (8nos, Rig 1) (PC66-69		31	168	0 017/08(6	12-May-20 A	28-Nov-20	08-Oct-21	08-Oct-21	0	100%					1						1			1		
WO.CA.TTA2NP	Construction of PBSH (8nos, Rig 1) (PC70-72	2)	46	90	0 017/08(6	29-Apr-20 A	15-Aug-20	08-Oct-21	08-Oct-21	0	100%				1	1 1					1	1	1				1
WO.CA.TTA2NP	Construction of PBSH (14nos, Rig 1) (PO66-F	PC72)	60	118	0 017/08(6	24-Jul-20 A	11-Dec-20	08-Oct-21	08-Oct-21	0	100%																[
Excavation and Co	Instruction of RC Structure		157	252	4 017/08(6	31-Dec-20 A	11-Nov-21	27-Sep-21	12-Oct-21	-25		━╋╋	Nov-21, E	xcavation a	and Construc	tion of RC Str	ucture					1		1	1		
	Installation of Sheet pile at PC58		12	4	0 017/08(6	31-Dec-20 A	06-Jan-21	27-Sep-21	27-Sep-21	0	100%											1					
	Installation of Struts and Excavation to Pile C	Cap Level at PC58	13	7		09-Mar-21 A	17-Mar-21		27-Sep-21	0	100% 58											1					
	Construction of Pile Cap PC58		14	46		09-Mar-21 A			27-Sep-21		100%															11	
	Backfill & removal of Waling, Strut & Sheet P	le for PC58	20	20		22-May-21 A			27-Sep-21		100% ut 8		e for PC58				╅╋╍┊╇╸	18				+				+-+	÷
			3	3		16-Jun-21 A			27-Sep-21 27-Sep-21		100%	TT	1		1							1	1				
WO.CA.TTA2NP		to the standard to the		-									ji i			1						1 1				1	
	Concrete Block Installation as Lateral Support	rt on top of Box Culvert	25	25		09-Mar-21 A			08-Oct-21	0	100% o d		n,									1				11	
	Construction of ELS (PC60-PC72)		120	124		15-Mar-21 A			08-Oct-21	0		LS(PC60															
WO.CA.TTA2NP	Construction of Pile Caps (PC60-PC72, 14D/	cap, 3teams)	90	151	4 017/08(6	08-May-21 A	11-Nov-21	08-Oct-21	12-Oct-21	-25 0	95.56%	p 📕	onstruction	of File Car	os (PO\$0-PC	2, 14D/cap	3leams)	1.8				1				LJ.	
Remaining Works			119	0	119 017/08(6	12-Nov-21	07-Apr-22	13-Oct-21	14-Apr-22	6						07-Ap	3teams) r 22, Remair	ning Wor	s		1	1	1	1		1	1
WO.CA.TTA2NP	Construction of Road and Drains (include ba	ckfilling to formation level)	45	0	45 017/08(6	29-Nov-21	22-Jan-22	20-Oct-21	10-Dec-21	-34 0	0%		(internet	-	onstruction of	Road and Dr	ains (include	e packfilli	g to formation	evel)	1	1					
	Removal of Sheet Piles (PC60-PC72)		11	0	11 017/08(6	12-Nov-21	24-Nov-21	13-Oct-21	26-Oct-21	-25 0	0%	- 14-6	Removal	of Sheel F	nies (PC60-P	C72)						1				11	
WO.CA.TTA2NP	Construction of Watermains, Irrigation, Power	r Cable Ducting, Civil Provision c	75	0	75 017/08(6	25-Nov-21	26-Feb-22	14-Dec-21	18-Mar-22	17 0	0%				Cons	truction of W	ale mains h	rigation.	Power Cable Du	cting, ἀ̈́vil Pi	rovision of T	r¢ss				11	
	Construction of Semi-Noise Enclosure CH138		45	0	45 017/08(6		24-Jan-22		02-Mar-22	29 0	0%		-		onstruction o	Semi-Noise	For Disting C	13878	to CH14021-2	Main Frame	. :	: :					
	Construction of Semi-Noise Enclosure CH138		45	0	45 017/08(6			21-Jan-22	18-Mar-22	29 0	0%		- Lei		Cohetria	ind of Sam!	Unice Education	CLH	878'6 to CH4'4	121 2 Sub E	rame and D	anel				+-+	
													1			auri ui Semiri	wise ⊆ncios		878.6 to CH14 ng and Road M g, Traffic Sign,	orling	there and P	cu IUI					
	Construction of Road Kerb, Road Paving and		30	0	30 017/08(6		02-Mar-22		18-Jan-22	-34 0	0%		1	1	Cor	suuction of F	waterverb F	vao Pav	ny and Road W	anking at Noi	unem Carria	geway					
	Construction of Road Paving, Traffic Sign, St		30	0	30 017/08(6		07-Apr-22		25-Feb-22	-34 0	0%		1	- 1		Const	ruction of Ro	ad Pavir	g, Traffic Sign,	street Lightin	ng	1					
	Make Good of Carriage Way and Road Mark	ing	14	0	14 017/08(6		01-Mar-22		14-Apr-22	37	0%		1	L L	• Mak	e Good of Ca	aniage Way :	and Roa	l Malking Southern Portic			1					
Southern Portion and			745			20-Nov-19 A			30-Sep-23	399							10	-May-22,	Southern Portic	n and Centr	al Barrier	l.				.	
	16nos, 10D/hole + 5D TRA, 1-3 rigs)		133	125					30-Sep-23																		1
WO.CA.TTA2SP	Set Back Existing Kerb along Sourthern Port	ion	30	17	0 017/08(6	09-Jan-20 A	31-Jan-20	30-Sep-23	30-Sep-23	0	100%											1					
											· •		<u> </u>													· · ·	_
Actual Level of Effo	ort Milestone 	~					Contro	of No.	NE/2017/	00	Т							Date			Rev	ision			Checked	A	App
		6		1000			Contra	act 180.:	NE/2017/0	υð		1					08.	Mar-21	Mon#	ly Program	amme Up	ndate ///	ar 2021	, 1	TL	StL	<u> </u>
Actual Work	summary		工程拓	展署		C	ross Bav	Link. T	seung Kw	van O		1				1										_	
									0				-				08-1	May-21	I Mont	y Progra	mme Up	date (Ma	ay 2021))	CkT	StL	
Remaining Work			Engineer		1.114	R	oad D9	and Ass	ociated W	vorks			D.			lin	-80	Jul-21	Month	ly Progra	amme Up	odate (Ju	12021)		CKT	StL	
· · · · · · · · · · · · · · · · · · ·		Deve	Inminent	Donartm	(Circle)			D 24	c a/										1							_	
Critical Remaining	Work	Devel	lopment	Deparun	CIII			Page 24 o	1 26								- 40.4	Sep-21	A	-	rogramm				CKT	St	

	amme Update Activity Name	Original A Duration Dur	Actual Remai	aining Calendar	Start	Finish	Late Start	Late Finish	Total TRA Float	Activity %		and Associated Works			202	22								2023	
Rig 5		81	73		20-Nov-19 A	19-Feb-20	27-Aug-21	30-Sep-23	riodt	Complete C	d N	Nov Dec Jan Feb M	Aar Apr	May	Jun	Jul	Aug Sep	Oct	Nov	Dec	Jan	Feb N	Mar Ap	r May	Jun
	2 Predrilling at Central Barrier of Wan O Road (PD112)	15	8		20-Nov-19 A		27-Aug-21		5	100%										1 1					
	2 Predrilling at Central Barrier of Wan O Road (PD113)	15	6	0 017/08(6	29-Nov-19 A	05-Dec-19	27-Aug-21	27-Aug-21	5	100%										1 1					
WO.CA.TTA	2 Predrilling at Central Barrier of Wan O Road (PD114)	15	7	0 017/08(6	06-Dec-19 A	13-Dec-19	27-Aug-21	27-Aug-21	5	100%										1 1					
WO.CA.TTA	2 Idling of Predrill Rig for PD114 by Sub-contractor	3	3	0 017/08(6	14-Dec-19 A	17-Dec-19	30-Sep-23	30-Sep-23	0	100%										1 1					
WO.CA.TTA	A2 Predrilling at Central Barrier of Wan O Road (PD120)	15	7	0 017/08(6	12-Feb-20 A	19-Feb-20	30-Sep-23	30-Sep-23	5	100%															
WO.CA.TTA	A2 Predrilling at Central Barrier of Wan O Road (PD111)	15	7	0 017/08(6	16-Jan-20 A	23-Jan-20	30-Sep-23	30-Sep-23	5	100%										1 1					
	2 Predrilling at Central Barrier of Wan O Road (PD82)	15	8	0 017/08(6	03-Feb-20 A	11-Feb-20	30-Sep-23	30-Sep-23	5	100%										1					
Rig 2		0	0	0					0																
Rig 3	0 Desidelling of Octobel Desides of Max O Desid (DD445)	121	113		04-Dec-19 A				6	4000/															
	A2 Predrilling at Central Barrier of Wan O Road (PD115)	15	5		04-Dec-19 A			-	5	100%										1 1					
	Predrilling at Central Barrier of Wan O Road (PD116)	15	20		24-Dec-19 A		-	-		100%										1 1		1			
	k2 killing of Predrill Rig for PD116 by Sub-contractor		14		27-Dec-19 A				0		↓									÷					
	A2 Predrilling at Central Barrier of Wan O Road (PD117)	15	4		20-Jan-20 A				5	100%										1 1					
	A2 Predrilling at Central Barrier of Wan O Road (PD118)		5		03-Feb-20 A		-	-	5	100%										1 1					
	A2 Predrilling at Central Barrier of Wan O Road (PD119)	15	-		08-Feb-20 A	-	27-Aug-21	-		100%										1 1					
	Predrilling at Central Barrier of Wan O Road (PD121) Predrilling at Central Barrier of Wan O Road (PD122)	15	8		17-Feb-20 A		-		5	100%															
	Predrilling at Central Barrier of Wan O Road (PD122)	15	11		24-Feb-20 A		27-Aug-21		5	100%	↓ .									÷					
	2 Predrilling at Central Barrier of Wan O Road (PD83)		11		12-Mar-20 A			-																	
	Predrilling at Central Barrier of Wan O Road (PD79)	15		0 017/08(6		24-Apr-20			5	100%										1 1					
WO.CA.TIA	V2 Predrilling at Central Barrier of Wan O Road (PD78)	15	9	0 017/08(6	02-Apr-20 A	16-Apr-20	27-Aug-21	27-Aug-21	5	100%										1 1					
WO CA TROOP	P Late Delivery of Hole due to COVID-19 (NCE083)	331	300 81	0 017/08/7	29-Jan-20 A	28-Jan-21 18-Apr-20	27-Sep-21 08-Oct-21	11-Oct-21 08-Oct-21	0	100%								1		1					
	Late Delivery of H-pile due to COVID-19 (NCE083)	30	233		29-Jan-20 A 03-Mar-20 A			08-Oct-21 08-Oct-21	0	100%	┼╌╋╌╠╴			÷- -	-+-+-					÷					
	P. Construction of PBSH (25nos, Rig 1) (PC73 to PC81) Construction of PBSH (12nos, Rig 2) (PC59 & PC62)	45	233		03-Mar-20 A 01-Sep-20 A				0	100%	+11							1							
	P. Construction of PBSH (12nos, Rig 2) (PC59 & PC62)							-	0	100%								1		1					
	P. Pile Loading Test	21	9		19-Jan-21 A			11-Oct-21 14-Jan-22	-	100%			and Comet-		C Structure					1					
	Construction of RC Structure iP. Installation of Sheet Piles (PC59, PC62)	246	245		09-Jan-21 A 09-Jan-21 A	21-Dec-21 23-Jan-21		14-Jan-22 11-Oct-21	18	100%		21-Dec-21, Excavation	and Constit	caon or R	- orructore	1				1					
		24	13	24 017/08(6		23-Jan-21 04-Dec-21		08-Nov-21	-23 0	100%	H.	Construction of ELS (PC59	PO(2)		-+-+-					<u></u> ≁∔					
	P. Construction of ELS (PC59, PC62)	14	34		23-JUI-21 A 19-Mar-21 A			08-Nov-21 09-Nov-21	-23 0	100%		Construction of ELS (PCS9	, PO(2)							1 1					
	P. Construction of Pile Caps (PC59, PC62)	5	34					13-Nov-21	-23	0%										1 1		1			
	P. Removal of Sheet Pile (PC59, PC62)		-	5 017/08(6		10-Dec-21					⊢₽₽	Removal of Sheet Pile (P								1 1					
	P. Construction of Wall Stem (PC59 - PC 62)	9	0	9 017/08(6		21-Dec-21		24-Nov-21	-23	0%		Construction of Wall S	tem (PC59 - 1	C 62						1 1					
	P. Construction of Pile Caps (PC74, PC77 and PC79)	18	64		04-Feb-21 A	28-Apr-21		23-Nov-21		100% 07	9)	··· ··													
	P. Construction of Pile Cap (PC75, PC78, PC80)	26	26		30-Mar-21 A					100%)										1 1					
	P. Construction of Pile Cap (PC73)	14	11		19-Aug-21 A			23-Nov-21		100% ic		e Cap (PC73)	_							1 1					
	P. Construction of Pile Cap (PC57)	14	105		05-Jul-21 A		31-Dec-21	14-Jan-22	41	20%		Construction of Pile Cap (PC5	7)							1 1					
	P. Diversion of MOE	4	0	4 017/08(6		11-Nov-21			-34	0%		Diversion of MOE								1 1					
WO.CA.TTA2SF	P. Construction of Pile Cap (PC 76)	14	0	14 017/08(6		27-Nov-21	02-Oct-21	19-Oct-21	-34	0%		Construction of Pile Cap (PC	76)							ļļ.					
Remaining Works	5	140	0	140 017/08(6		30-May-22	23-Nov-21	14-Apr-22	-34								ining Works			1 1		1			
	iP. Construction of Drainage SMH501 to SMH506 and backfilling to formation le		0	25 017/08(6			23-Nov-21	21-Dec-21	-16 0	0%		Construction of								1 1					
	P. Construction of Drainage SMH506 to SMH401 and backfilling to formation least interval in the second s		0	25 017/08(6			22-Dec-21		-16 0	0%			ruction of Dra		4506 to SN	MH 01 an	d backfilling t	o formatio	on level	1 1					
-	P. Removal of Sheet Pile	6	0	6 017/08(6		21-Feb-22			-16 0	0%			noval of Shee							1 1					
	P. Construction of Semi-Noise Enclosure CH13878.6 to CH14021.2 Main Fram		0	45 017/08(6		28-Jan-22			33 0	0%			on of Semi-No							i					
	P. Construction of Semi-Noise Enclosure CH13878.6 to CH14021.2 Sub Frame		0	45 017/08(6			04-Feb-22		33 0	0%		Gons	struction of Se	mi-Nobe I	Enclosure (CH 3878.	.6 to CH1402	1.2 Sub Fr	rarhe and F	Panel					
WO.CA.TTA2SF	P. Construction of Watermains, Irrigation, Power Cable Ducting, Civil Provision		0	20 017/08(6	22-Feb-22	16-Mar-22		25-Feb-22	-16 0	0%			Constructi				ower Cable D								
	P. Construction of Road Kerb, Road paving and Road Marking at Southern Ca		0	30 017/08(6		18-May-22	26-Feb-22	01-Apr-22	-34 0	0%							Kerb, Road p								
WO.CA.TTA2SF	P. Construction of Road Paving, Shrub, Tree Planting, Traffic Sign, Street Light		0	30 017/08(6	23-Apr-22	30-May-22	2 10-Mar-22	14-Apr-22	-34 0	0%			4		Construct	tion of Ro	oad Pavling, S	ihrub, Tree	e Planting, 1	Traffic Sigh	n, Street Lig	ghting			
WO.CA.TTA2SF	P. Make Good of Carriageway and Road Marking	14	0	14 017/08(6	18-Feb-22	05-Mar-22	29-Mar-22	14-Apr-22	33	0%			Make Good o	f Carriage	way and Ro	oad Marki	ng								
/an Po Road		648	492	152 017/08(6	11-Mar-20 A	19-May-22	11-Sep-21	30-Sep-23	408				1	1	9-1 1 /ay-212, 1	Wan Po	Road								
	t and Earthing Conductor at Portion III (CE030)		305	0 017/08(6		20-Mar-21	30-Sep-23				at Portion	on III (CE030)								1 1					
WO1250	Liasion with C1 and CLP for Cable Duct and Earth Conductor at Wan Po Ro		110		11-Mar-20 A	25-Jul-20 /			0	100%										1 1					
WO1255	Subtletting and Acceptance of Quotation for TTA	90	110		11-Mar-20 A	25-Jul-20			0	100%										1					
WO1257	Application and Approval of TTA	20	6	0 017/08(6			30-Sep-23		0	100%										Ļļ					ļ
WO1258	Application of Road Work Advice	10	12		03-Aug-20 A				0	100%	- 11									1					
WO1259	Set up TTA	1	1		17-Aug-20 A		30-Sep-23		0	100%										1					
WO1269	Site Clearance	5	5		18-Aug-20 A				0	100%										1					
WO1279	Excavation for Ducting Works	7	6		24-Aug-20 A		30-Sep-23		0	100%	- 11									1					
WO1289	Delivery of GI Duct	10	9		31-Aug-20 A		30-Sep-23		0	100%							İ			įį					
WO1299	Ducting Works	9	9		10-Sep-20 A		30-Sep-23		0	100%										1 T	ſ				
WO1309	Backfilling, Reinstatement of Road Works and Closing of TTA	6	6		15-Mar-21 A		30-Sep-23	30-Sep-23	0	100% T										1					
	Handover to C1 for Power Energization of the E&M Plant Room (CE030)	0	0	0 017/08(6		20-Mar-21		30-Sep-23	0	100% R	om CEC	030),								1					
	\$	267	113	152 017/08(6				18-Mar-22	-47		-++-						Road Works			1					
WO1319		267	113	152 017/08(6			2 11-Sep-21	18-Mar-22	-47					1	9- M ay-29, I					ļļ.					l
WO1319 Wan Po Road Works		152	0	152 017/08(6			2 11-Sep-21	18-Mar-22	-47				Dura de				nd (5 stages,	~20m/sta	ige)	1					
WO1319 Wan Po Road Works Footpath East Bound (5 s	stages, ~20m/stage)		U	8 017/08(6			11-Sep-21	21-Sep-21	-47 0	0%	- T-	Implementation of TTA, Trial Pit		ic mentific	adon pr.UL	u (ist stag	1e)			1					
WO1319 Wan Po Road Works Footpath East Bound (5 s WP1140	stages, ~20m/stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stag	3 8		3 017/08(6	18-Nov-21		21-Sep-21		-47 0	0%		Civil Provision of TCSS (1st sta								1					
WO1319 Wan Po Road Works Footpath East Bound (5 s WP1140 WP1150	stages, ~20m/stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stag Civil Provision of TCSS (1st stage)		0			U1-Dec-21	25-Sep-21		-47 0	0%	- 11	Construction of Traffic Sign								1		1	1		
WO1319 Wan Po Road Works Footpath East Bound (5 s WP1140 WP1150 WP1160	stages, ~20m/stage) Implementation of TA, Tiral Pit Excavation and Identification of UJ (1st stage Ovil Provision of TCSS (1st stage) Construction of Traffic Sign TS175(7) (1st Stage)	9 8 3 8	0	8 017/08(6				12-Oct-21	-47 0	0%		Reinstatement of Road Su													
WO1319 Wan Po Road Works Footpath WP1140 WP1150 WP1160 WP1170	stages, -20m/stage) Implementation of TTA, Tital Pit Excavation and Identification of UU (1st stag Owl Provision of TCSS (1st stage) Construction of Traffic Sign TS175(7) (1st Stage) Reinstatement of Road Surface and Oosing of TTA(1st stage)) 8 3 8 5	0	8 017/08(6 5 017/08(6	01-Dec-21		06-Oct-21					Implementation of TTA,				tion of UU	(2nd etage)			ļ					
W01319 Wan Po Road Works Footpath East Bound (5 r WP1140 WP1150 WP1160 WP1170 WP1180	stages, -20m/stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stag Ovil Provision of TCSS (1st stage) Construction of Traffic Sign TS175(7) (1st Stage) Reinstatement of Road Surface and Oosing of TTA(1st stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (2nd sta) 8 3 8 5 (8	0 0 0 0 0	8 017/08(6 5 017/08(6 8 017/08(6	01-Dec-21 07-Dec-21	16-Dec-21	12-Oct-21	22-Oct-21	-47 0	0%	- 11														
W01319 Wan Po Road Works Footpath WP1140 WP1140 WP1150 WP1160 WP1160 WP1180 WP1180 WP1190	stages, ~20m/stage) Implementation of TA, Trial PR Excavation and Identification of UU (1st stage) Owl Provision of TCSS (1st stage) Construction Taffic Sign TS1757) (1st Stage) Reinstatement of Road Surface and Cosing of TTA (1st stage) Implementation of TTA, Trial PR Excavation and Identification of UU (2nd sta Excavation and Construction of Directional Sign Footing DS4 (2nd stage)	3 3 8 (8 (8 (8 (8)	0 0 0 0	8 D17/08(6 5 D17/08(6 8 D17/08(6 6 D17/08(6	01-Dec-21 07-Dec-21 16-Dec-21	16-Dec-21 23-Dec-21	12-Oct-21 22-Oct-21	22-Oct-21 29-Oct-21	-47 0	0%			truction of Dir	ectiona Si	gn Fopting										
W01319 Wan Po Road Works Footpath WP1140 WP1150 WP1160 WP1160 WP1180 WP1180 WP1180 WP1190 WP1200	stages, -20m/stage) Implementation of TTA, Tital PR Excavation and Identification of UU (1st stag Owl Provision of TCSS (1st stage) Construction of Traffic Sign TS1757(7) (1st Stage) Reinstatement of Road Surface and Oosing of TTA (1st stage) Implementation of TTA, Tital PE Excavation and Kentification of UU (2nd sta Excavation and Construction of Directional Sign Footing DS4 (2nd stage) Installation of Steel Frame and Directional Sign (2nd stage)	3 8 3 5 (8 6 8	0	8 D17/08(6 5 D17/08(6 8 D17/08(6 6 D17/08(6 8 D17/08(6	01-Dec-21 07-Dec-21 16-Dec-21 23-Dec-21	16-Dec-21 23-Dec-21 05-Jan-22	12-Oct-21 22-Oct-21 29-Oct-21	22-Oct-21 29-Oct-21 08-Nov-21	-47 0 -47 0	0% 0%		Excavation and Cons	truction of Dir el Frame and	ectiona Si Directiona	gn Footing I Sign (2nd	g DS4 (2ro d stage)									
W01319 Wan Po Road Works Footpath East Bound (5 r WP1140 WP1150 WP1160 WP1160 WP1170 WP1170 WP1190 WP1200 WP1210	stages, -20m/stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stag Ovi Provision of TCSS (1st stage) Construction of Traffic Sign TS175(7) (1st Stage) Reinstatement of Road Surface and Cosing of TTA(1st stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (2nd sta Excavation and Construction of Directional Sign Footing DS4 (2nd stage) Installation of Stell-Frame and Directional Sign (2nd stage) Construction of Traffic Sign TS175(7) (2nd stage)	g 8 3 5 4 4 5 4 5 4 6 8 8 8	0	8 D17/08(6 5 D17/08(6 8 D17/08(6 6 D17/08(6 8 D17/08(6 8 D17/08(6	01-Dec-21 07-Dec-21 16-Dec-21 23-Dec-21 05-Jan-22	16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22	12-Oct-21 22-Oct-21 29-Oct-21 08-Nov-21	22-Oct-21 29-Oct-21 08-Nov-21 17-Nov-21	-47 0 -47 0 -47 0	0% 0% 0%		Excavation and Cons Laboration of Ster Construction of	Traffic Sign 1	\$175(1)(gn Footing Sign (2nd Ind stage)	g DS4 (2ro d stage)									
W01319 Wan Po Road Works Footpath W0140 W01150 W01150 W01150 W01170 W01180 W01180 W01180 W01200 W01220	stages, -20m/stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stage) Out Provision of TCSS (1st stage) Construction of Traffic Sign TS175(7) (1st Stage) Reinstatement of Road Surface and Cosing of TTA(1st stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (2nd stage) Excavation and Construction of Directional Sign Fortong DS4 (2nd stage) Instalation of Steel Frame and Directional Sign Fortong DS4 (2nd stage) Construction of Traffic Sign TS175(7) (2nd stage) Owl Provision of TCSS (2nd stage)	3 8 3 5 (8 6 8	0	8 D17/08(6 5 D17/08(6 8 D17/08(6 8 D17/08(6 8 D17/08(6 8 D17/08(6 5 D17/08(6	01-Dec-21 07-Dec-21 16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22	16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22	12-Oct-21 22-Oct-21 29-Oct-21	22-Oct-21 29-Oct-21 08-Nov-21 17-Nov-21 23-Nov-21	-47 0 -47 0 -47 0 -47 0	0% 0% 0%		Excavation and Cons Installation of Ster Construction of Unit Provision	Traffic Sign 1 of TCSS (2r	(\$1750) (1 stace)	2nd stage)	g D\$4 (2nd d stage); I	d stage)								
W01319 Wan Po Road Works Footpath East Bound (5 r WP1140 WP1150 WP1160 WP1160 WP1170 WP1170 WP1180 WP1190 WP1200 WP1210	stages, -20m/stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stag Ovi Provision of TCSS (1st stage) Construction of Traffic Sign TS175(7) (1st Stage) Reinstatement of Road Surface and Cosing of TTA(1st stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (2nd sta Excavation and Construction of Directional Sign Footing DS4 (2nd stage) Installation of Stell-Frame and Directional Sign (2nd stage) Construction of Traffic Sign TS175(7) (2nd stage)	g 8 3 5 4 4 5 4 5 4 6 8 8 8	0	8 D17/08(6 5 D17/08(6 8 D17/08(6 6 D17/08(6 8 D17/08(6 8 D17/08(6	01-Dec-21 07-Dec-21 16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22	16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22 20-Jan-22	12-Oct-21 22-Oct-21 29-Oct-21 08-Nov-21	22-Oct-21 29-Oct-21 08-Nov-21 17-Nov-21 23-Nov-21	-47 0 -47 0 -47 0	0% 0% 0%		Excavation and Cons Installation of Ster Construction of Unit Provision	Traffic Sign 1 of TCSS (2r	(\$1750) (1 stace)	2nd stage)	g D\$4 (2nd d stage); I	d stage)								
W01319 Wan Po Road Works Footpath Ests Bound (5) WP1160 WP1160 WP1160 WP1160 WP1160 WP1190 WP1190 WP1200 WP1220 WP1220 WP1230	stages, -20m/stage) Implementation of TA, Trial PR Excavation and Identification of UU (1st stage) Ovil Provision of TCSS (1st stage) Construction of Trial TRIS Sign TS175(7) (1st Stage) Reinstatement of Road Surface and Ossing of TTA (1st stage) Implementation of TTA, Trial PR Excavation and Identification of UU (2nd stage) Lexavation and Construction of Directional Sign Znd stage) Construction of Traffic Sign TS175(7) (2nd stage) Construction of TS16E (TS175(7) (2nd stage)) Coll Provision of TCSS (2nd stage) Reinstatement of Road Surface and Oosing of TTA(2nd stage)	J B 3 3 5 5 10 6 8 8 8 8 8 5	0 0 0 0	8 D17/08(6 5 D17/08(6 8 D17/08(6 8 D17/08(6 8 D17/08(6 8 D17/08(6 5 D17/08(6	01-Dec-21 07-Dec-21 16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22	16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22 20-Jan-22	12-Oct-21 22-Oct-21 29-Oct-21 08-Nov-21 17-Nov-21	22-Oct-21 29-Oct-21 08-Nov-21 17-Nov-21 23-Nov-21	-47 0 -47 0 -47 0 -47 0	0% 0% 0%		Excavation and Cons Laboration of Ster Construction of	Traffic Sign 1 of TCSS (2r	(\$1750) (1 stace)	ndi stage) di Closingi c	g DS4 (2nd d stage) of TTA (2nd	d stage)		Por	ision				ecked	
WO1319 Wan Po Road Works Footpath East Bound (5) WP1160 WP1160 WP1160 WP1170 WP1180 WP1190 WP1190 WP1120 WP120 WP120 WP120 WP120	stages, -20m/stage) Implementation of TA, Trial PR Excavation and Identification of UU (1st stage) Ovil Provision of TCSS (1st stage) Construction of Trial TRIS Sign TS175(7) (1st Stage) Reinstatement of Road Surface and Ossing of TTA (1st stage) Implementation of TTA, Trial PR Excavation and Identification of UU (2nd stage) Lexavation and Construction of Directional Sign Znd stage) Construction of Traffic Sign TS175(7) (2nd stage) Construction of TS16E (TS175(7) (2nd stage)) Coll Provision of TCSS (2nd stage) Reinstatement of Road Surface and Oosing of TTA(2nd stage)	J B 3 3 5 5 10 6 8 8 8 8 8 5	0 0 0 0	8 D17/08(6 5 D17/08(6 8 D17/08(6 8 D17/08(6 8 D17/08(6 8 D17/08(6 5 D17/08(6	01-Dec-21 07-Dec-21 16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22	16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22 20-Jan-22 26-Jan-22	12-Oct-21 22-Oct-21 29-Oct-21 08-Nov-21 17-Nov-21 23-Nov-21	22-Oct-21 29-Oct-21 08-Nov-21 17-Nov-21 23-Nov-21	-47 0 -47 0 -47 0 -47 0 -47 0	0% 0% 0%		Excavation and Cons Installation of Ster Construction of Unit Provision	Traffic Sign 1 of TCSS (2r	\$175()(distage) Surface an	end stage) d Closing c Dat	p DS4 (2nd d stage) of TA (2nd te	d stage) Id stage)		Revi				Ch	ecked	A
W01319 Wan Po Road Works Footpath WP1180 WP120	stages, -20m/stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stage Owl Provision of TCSS (1st stage) Construction of Traffic Sign TS175(7) (1st Stage) Reinstatement of Road Surface and Cosing of TTA (1st stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (2nd stage Excavation and Construction of Directional Sign Fortong DS4 (2nd stage) Installation of Steel Frame and Directional Sign (2nd stage) Construction of Traffic Sign TS175(7) (2nd stage) Construction of Traffic Sign TS175(7) (2nd stage) Reinstatement of Road Surface and Cosing of TTA (2nd stage) fort	3 8 3 5 6 8 8 8 8 5 5 5	0 0 0 0 0	8 D17/08(6 5 D17/08(6 8 D17/08(6 8 D17/08(6 8 D17/08(6 8 D17/08(6 5 D17/08(6	01-Dec-21 07-Dec-21 16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22 20-Jan-22	16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22 20-Jan-22 26-Jan-22	12-Oct-21 22-Oct-21 29-Oct-21 08-Nov-21 17-Nov-21 23-Nov-21 act No.:	22-Oct-21 29-Oct-21 08-Nov-21 17-Nov-21 23-Nov-21 23-Nov-21 NE/2017 /	-47 0 -47 0 -47 0 -47 0 -47 0 -47 0	0% 0% 0%		Excavation and Cons Installation of Ster Construction of Unit Provision	Traffic Sign 1 of TCSS (2r	\$1750) (d stage) Surface an	nd stage) d Closing c Dati 08-Mar-2	p DS4 (2nd d stage) of TA(2nd te 21	d stage)	Program			lar 2021	1)	Ch TL		Aı StL
World 19 Wan Po Road Works Footpath World 0 World 0 Wo	stages, -20m/stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stage Out Provision of TCSS (1st stage) Construction of Traffic Sign TS175(7) (1st Stage) Reinstatement of Road Surface and Cosing of TTA (1st stage) Implementation of TTA, Trial Pit Excavation and Identification of UU (2nd stage) Excavation and Construction of Directional Sign (2nd stage) Installation of Steel Frame and Directional Sign (2nd stage) Construction of TS155(7) (2nd stage) Construction of TCSS (2nd stage) Reinstatement of Road Surface and Cosing of TTA(2nd stage) fort	3 8 8 8 8 8 8 8 8 8 8 8 5 5 7 8 8 8 8 8 5 5	0 0 0 0	8 D17/08(6 5 D17/08(6 8 D17/08(6 6 D17/08(6 8 D17/08(6 8 D17/08(6 5 D17/08(6 5 D17/08(6	01-Dec-21 07-Dec-21 16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22 20-Jan-22	16-Dec-21 23-Dec-21 05-Jan-22 14-Jan-22 20-Jan-22 26-Jan-22 Contra	12-Oct-21 22-Oct-21 29-Oct-21 08-Nov-21 17-Nov-21 23-Nov-21 act No.: y Link, 7	22-Oct-21 29-Oct-21 08-Nov-21 17-Nov-21 23-Nov-21 29-Nov-21 NE/2017/ Fseung K	47 0 47 0 47 0 47 0 47 0 47 0 708 wan O	0% 0% 0%		Excavation and Cons Installation of She Construction of Quil Provision	Traffic Sign 1 of TCSS (2r ent of Road 3	\$175() (d stage) Surface an	nd stage) d Closing c Dati 08-Mar-2	p DS4 (2nd d stage) of TA(2nd te 21	d stage) Id stage) Monthly		mme Up	odate (M		-	Ch TL CkT		
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	Accordy Nellin			Actual Nernalini Duration Duratio		1 million	Late Otdit	cate i mall	Float	Complete Oct	Nov	Dec	Jan	Feb	Mar	Apr	May			Aug Sep	Oct	Nov	Dec	Jan	Feb Ma	lar Ap	or May	Jun	
- V	WP1240 Implementat	tion of TTA, Trial Pit Excavation and Identification of UU (3rd stag	8	0	8 017/08(6 26-Jan-22	08-Feb-22	29-Nov-21	08-Dec-21	-47 0	0%			4	in h	pementatio	on of TTA.	na Pit E	cavation	and Id	ntification of U						+	Ť	-	+
_ V	WP1250 Civil Provisio	on of TCSS and Construction of drawpit (3rd stage)	8	0	8 017/08(6 08-Feb-22	17-Feb-22	08-Dec-21	17-Dec-21	-47 0	0%										pit (3rd stage)									
_ v	WP1260 Reinstateme	ent of Road Surface and Closing of TTA (3rd stage)	5	0	5 017/08(6 17-Feb-22	23-Feb-22	17-Dec-21	23-Dec-21	-47 0	0%					Reinstate	ment of Ro	ad Surfa	ce and C	iosing z	TTA (3rd stag	e)		1 1					1	
_ v	WP1270 Implemental	tion of TTA, Trial Pit Excavation and Identification of UU (3rd stag	8	0	8 017/08(6 23-Feb-22	04-Mar-22	23-Dec-21	05-Jan-22	-47 0	0%				- -						and Identificati		rd stage	i						
_ V	WP1280 Civil Provisio	on of TCSS and Construction of drawpit (3rd stage)	8	0	8 017/08(6 04-Mar-22	14-Mar-22	05-Jan-22	14-Jan-22	-47 0	0%			1		Civil	Provision	of CSS	and Cons	struction	of drawpit (3rd	stage)	1						1	T
_ V	WP1290 Reinstateme	ent of Road Surface and Closing of TTA (3rd stage)	5	0	5 017/08(6 14-Mar-22	19-Mar-22	14-Jan-22	20-Jan-22	-47 0	0%					두 🖪 Re	instateme	nt of Roa	d Surface	and Ċ	sing of TTA (3	rd stage)		1 1						
_ V	WP1300 Implementat	tion of TTA, Trial Pit Excavation and Identification of UU (4th stag	6	0	6 017/08(6 19-Mar-22	26-Mar-22	20-Jan-22	27-Jan-22	-47 0	0%					- -	Implement	ation of 1	TA, Trial I	Pi Exce	ation and Ider	ntification o	UU (4th	stage)						
_ v	WP1310 Civil Provisio	on of TCSS (4th stage)	3	0	3 017/08(6 26-Mar-22	30-Mar-22	27-Jan-22	31-Jan-22	-47 0	0%					⊑	Civil Provi	ior of T	SS (4th	stage)										
		ent of Road Surface and Closing of TTA (4th stage)	5	0	5 017/08(6 30-Mar-22	06-Apr-22	31-Jan-22	09-Feb-22	-47 0	0%					- -	Reinsta	errent o	f Road Si	uriace	nd Closing of 1	TTA (4th sta	ge)	1					1	
		tion of TTA, Trial Pit Excavation and Identification of UU (5th stag	8	0	8 017/08(6 06-Apr-22	19-Apr-22	09-Feb-22	18-Feb-22	-47 0	0%			÷		¢	📕 Imp	ementat	on of TT/	A. Trial ¥	t Excavation a	and Identific	ation of l	uu (5th ste	ae)				+	+
		and Construction of Directional Sign Footing DS6 (5th stage)	8		8 017/08(6 19-Apr-22		18-Feb-22	28-Feb-22	-47 0	0%					1 1		xcevatio	and Co	nstructio	n of Directiona	ıl Sian Foot	ing DS6	(5th stage)					1	
		of Steel Frame and Directional Sign (5th stage)	6		6 017/08(6 28-Apr-22		28-Feb-22	07-Mar-22	-47 0	0%					1 1	- G	Installat	on of Ste	e Fran	and Direction	al Sign (5t	stage)	1 1						
		on of TCSS and Construction of drawpit (5th stage)	5		5 017/08(6 06-May-22		07-Mar-22	12-Mar-22	-47 0	0%					1	- C		rovision d	ofTCSS	and Construct	lion of draw	hit (5th s	age)						
		ent of Road Surface and Closing of TTA (5th stage)	5	-	5 017/08(6 13-May-22		12-Mar-22	18-Mar-22	-47 0	0%					1 1	Ģ	E Boir	stateme	at of Br	ad Surface and	d Closing of	FTTA (5th	a stane)						
	st Bound (4 Stages, ~20m/s		237	-	22 017/08(6 24-Jun-21 A		20-Oct-21	18-Mar-22	-17	0 //0					······	08. Nor				s, ~20m/stage			(dugo)	+-				+	·+
		tion of TTA. Trial Pit Excavation and Identification of UU (1st stag	10		0 017/08(6 24-Jun-21 A			20-Oct-21	0	100% al Pit F	xavatir	n and Ide	entificat	tion of UL	l (1st stage)		21. 1103	bound (Juage	s, zonivatago	' I		1						
		and Construction of Directional Sign Footing DS5 (1st stage)	10		9 017/08(6 07-Jul-21 A	19-Nov-21		30-Oct-21	-17 0						ion of Directi		Forting F	65 (1et s	tage)										
		of Steel Frame and Directional Sign (1st stage)	10		10 017/08(6 19-Nov-21	01-Dec-21	30-Oct-21	11-Nov-21	-17 0	0%					me and Dire				ugo/										
		on of TCSS and Construction of drawpit (1st stage)	8	-	8 017/08(6 01-Dec-21	10-Dec-21	11-Nov-21	20-Nov-21	-17 0	0%					SS and Con				. 1			1	1 1					1	
		ent of Road Surface and Closing of TTA (1st stage)	5	0	5 017/08(6 10-Dec-21	16-Dec-21		26-Nov-21	-17 0	0%					Road Surfac								÷					÷	·
			0	-	0 017/08(6 10-080-21	16-Dec-21	20-1100-21	26-Nov-21	-17 0	0%					sion with C1								1 1						
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		tion of TTA, Trial Pit Excavation and Identification of UU (2nd stag	10	•	10 017/08(6 16-Dec-21	30-Dec-21		08-Dec-21	-17 0	0%		-								UU (2nd stag aying of Water			1 1						
		on of TCSS and Construction of drawpit and Laying of Watermair	15		15 017/08(6 30-Dec-21	18-Jan-22		28-Dec-21	-17 0	0,0											rmain (2nd	stage)	1 1	1				1	
		ent of Road Surface and Closing of TTA (2nd stage)	5		5 017/08(6 18-Jan-22	24-Jan-22		04-Jan-22	-17 0	0%			1	Reinst	atement of f	Road Surfa	ce and C	losing of	TTA (2r	t stage) ntification of U			ļļ.						
		tion of TTA, Trial Pit Excavation and Identification of UU (3rd stag	10		10 017/08(6 24-Jan-22	08-Feb-22		15-Jan-22	-17 0	0%			1 -	r 📥 Irr									1 1		1	1		1	
		on of TCSS and Construction of drawpit and Laying of Watermair	15		15 017/08(6 08-Feb-22		15-Jan-22	05-Feb-22	-17 0	0%										awpit and Layi		main (3r	d stage)						
		ent of Road Surface and Closing of TTA (3rd stage)	5		5 017/08(6 25-Feb-22	03-Mar-22		11-Feb-22	-17 0	0%				1						of TTA (3rd sta			1 1						
		tion of TTA, Trial Pit Excavation and Identification of UU (4th stag	10	0	10 017/08(6 03-Mar-22	15-Mar-22		23-Feb-22	-17 0	0%				1						on and dentifi									
		on of TCSS and Construction of drawpit and Laying of Watermair	15		15 017/08(6 15-Mar-22	01-Apr-22	23-Feb-22	12-Mar-22	-17 0	0%			<u>.</u>		· •	Civil Prov	sion of T	CSS and	Const	ction of drawp	it and Layir	ig of Wat	.ermain (4th	n stage)					
V	WP1530 Reinstateme	ent of Road Surface and Closing of TTA (4th stage)	5	0	5 017/08(6 01-Apr-22	08-Apr-22	12-Mar-22	18-Mar-22	-17 0	0%					L	Reinsta				nd Closing of	TIA (4th sta	age)	1						
	geway (4 lanes/ stages)		248	113 1:	33 D17/08(6 24-Jun-21 A	25-Apr-22	06-Oct-21	18-Mar-22	-28					-	+ +	25	- A: r -22,	Carriage	way (4)	nes/ stages)		1	1 1					1	
🚍 WP1		avation and Identification of UU (Existing TTA)	10	10	0 017/08(6 24-Jun-21 A	06-Jul-21	06-Oct-21	06-Oct-21	0	100% entifica	n of L	U (Existir	ng TTA)															1	
🚥 WP1		ucts for Civil Provision of TCSS (Existing TTA)	8		7 D17/08(6 07-Jul-21 A	17-Nov-21		15-Oct-21	-28 0						ovision of TA								1 1					1	
😑 WP1	1015 Reinstateme	ent of Road Surface and New Road Marking (Existing TTA)	10	0	10 017/08(6 17-Nov-21	29-Nov-21	15-Oct-21	27-Oct-21	-28 0	0%	╌┝╸═	Reinsta	tement	t of Road	Surface an	d New Roa	d Narkin	g (Existin	g ITA)										
😑 WP1	1020 Implementat	tion of TTA, Trial Pit Excavation and Identification of UU (1st stag	10	0	10 017/08(6 29-Nov-21	10-Dec-21	27-Oct-21	08-Nov-21	-28 0	0%	-	📕 Imp	fementa	ation of T	TA, Trial Pit	Excavation	and Ide	tification	ol UU	st stage)			1					1	1
😑 WP1		ucts for Civil Provision of TCSS (1st stage)	8	0	8 017/08(6 10-Dec-21	20-Dec-21	08-Nov-21	17-Nov-21	-28 0	0%		- <u> </u>	aying o	of Ducts f	or Civil Provi	ision of TC	SS [1st s	age)											
i WP1	1090 Reinstateme	ent of Road Surface and New Road Marking (1st stage)	10	0	10 017/08(6 20-Dec-21	04-Jan-22	17-Nov-21	29-Nov-21	-28 0	0%		<u>اما</u>	Reir	inslateme	n of Road	Surface an	d New R	ad Marki	ng (1s	tage)			1 1					1	
🔲 WP1	1550 Implemental	tion of TTA, Trial Pit Excavation and Identification of UU (2nd stag	10	0	10 017/08(6 04-Jan-22	15-Jan-22	29-Nov-21	10-Dec-21	-28 0	0%		4								on of UU (2nd	stage)		1 1						
i WP1	1560 Laying of Du	ucts for Civil Provision of TCSS (2nd stage)	8	0	8 017/08(6 15-Jan-22	25-Jan-22	10-Dec-21	20-Dec-21	-28 0	0%				Laying	o of Ducts fo	r Civil Prov	sion of T	CSS (2nd	l stage			1	1 1					1	
WP1	1570 Reinstateme	ent of Road Surface and New Road Marking (2nd stage)	10	0	10 017/08(6 25-Jan-22	09-Feb-22	20-Dec-21	04-Jan-22	-28 0	0%			5	📕 R	einstatemen	t of Road	Sur ace a	nd New I	Road M	rking (2nd sta	ge)		1					1	1
😑 WP1	1580 Implementat	tion of TTA, Trial Pit Excavation and Identification of UU (3rd stag	10	0	10 017/08(6 09-Feb-22	21-Feb-22	04-Jan-22	15-Jan-22	-28 0	0%					Implement	tation of T	A Trial F	it Excava	ition an	Identification	of UU (3rd	stage)	1 1					1	
wP1	1590 Laying of Du	ucts for Civil Provision of TCSS and Construction of drawpit (3rd s	12	0	12 017/08(6 21-Feb-22	07-Mar-22	15-Jan-22	29-Jan-22	-28 0	0%					Lavin	of Ducts	or Civil P	rovision o	f TCSS	and Constructi	ion of draw	pit (3rd st	(age)						
WP1		ent of Road Surface and New Road Marking (3rd stage)	10	0	10 017/08(6 07-Mar-22	18-Mar-22	29-Jan-22	14-Feb-22	-28 0	0%			1		Fe Re	instateme	t o' Roa	d Surface	and N	w Road Markir	ng (3rd stac	xe)						1	
wP1		tion of TTA, Trial Pit Excavation and Identification of UU (4th stag	10		10 017/08(6 18-Mar-22		14-Feb-22	25-Feb-22	-28 0	0%			1		- -	Implemen	tation of	TTA, Trial	Fit Exp	vation and Ide	entification	of UU (4t	b stage)						
wP1		ucts for Civil Provision of TCSS and Construction of drawpit (4th s	8	-	8 017/08(6 30-Mar-22		25-Feb-22	07-Mar-22	-28 0	0%			÷		- 	Laving	of Ducts	for Civil F	novision	of TCSS and	Constructio	h of drav	woit (4th sta	age)				+	-
wP1		ent of Road Surface and New Road Marking (4th stage)	10	-	10 017/08(6 09-Apr-22		07-Mar-22	18-Mar-22	-28 0	0%			1		- G	- R	instaten	ent of R	ad Sim	ace and New F	Road Markin	na (4th st	tage)	<i>S</i> ,				1	
	Works (Portion I. II	-, -,	1249	-	59 09-Mar-19 A		07-Sep-21	14-Apr-23	-37	0.0																_		¥ 30-Ma	av-2
						11 1 2 1									1								I T					JUNIN	1
MISC4010	Landscape		321		61 017/08(7 08-Jun-21 A		05-Nov-21	14-Apr-22	-46 0	50%			:	:	: :	:		andscap	ework								L		
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MISC4030	Tree Preserv	vation and Protection Works	939	790 1	78 017/08(6 09-Mar-19 A	18-Jun-22	07-Sep-21	14-Apr-22	-49 0	81%				-			1	- Tree			itection Wo aving Work		1 1					1	

Actual Level of Effort

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Actual Work Remaining Work

Critical Remaining Work

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Contract No.: NE/2017/08 Cross Bay Link, Tseung Kwan O **Road D9 and Associated Works** Page 26 of 26



Date Revision Checked Approved 08-Mar-21 Monthly Programme Update (Mar 2021) TL StL 08-May-21 Monthy Programme Update (May 2021) CkT StL Monthly Programme Update (Jul 2021) CKT StL CKT Stl Acceleration Programme

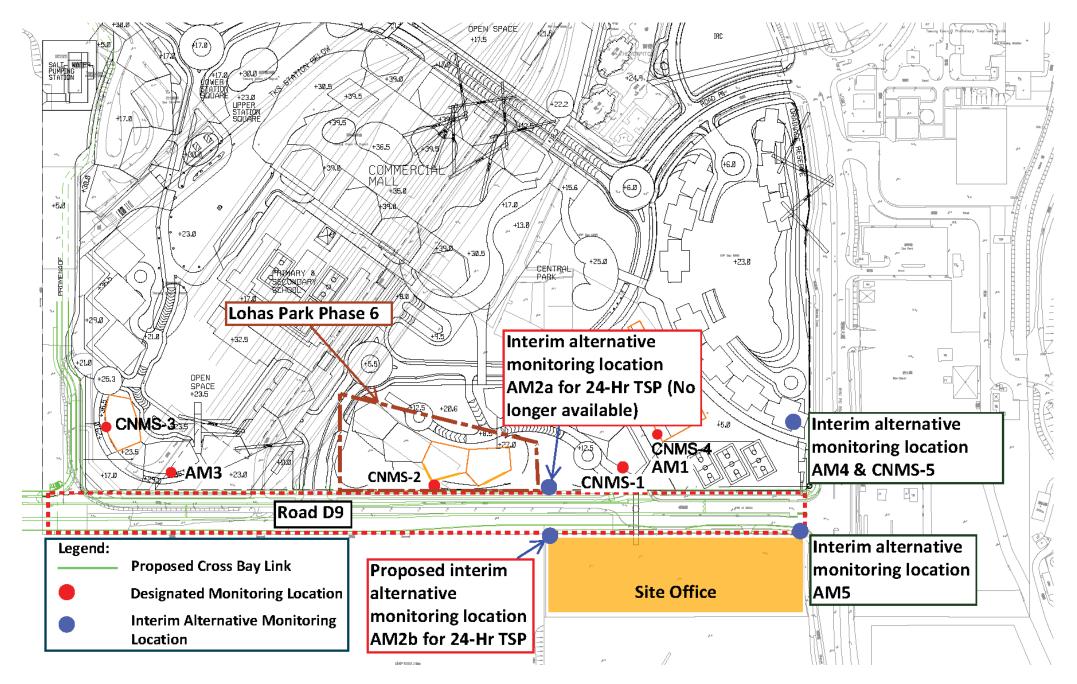


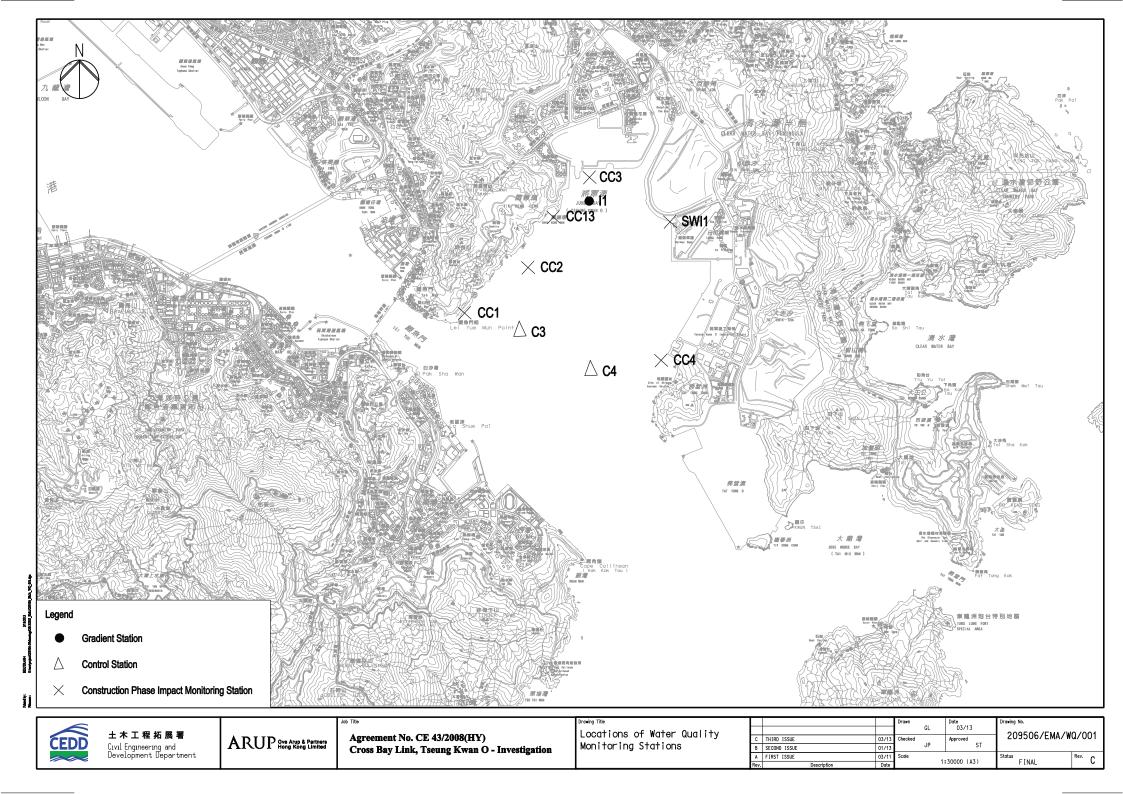
Appendix D

Monitoring Location (Air Quality, Noise and Water Quality)

CEDD Contract Agreement No. EDO/04/2018 -Environmental Team for Cross Bay Link, Tseung Kwan O Designated and Interim Alternative Air Quality and Noise Monitoring Location









Appendix E

Event and Action Plan



		ACTION		
EVENT	Environmental Team (ET)	Independent Environmental Checker (IEC)	Project Consultant	Contractor
ACTION LEVEL				
Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and Project Consultant; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate.
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and Project Consultant; Advise the Project Consultant 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 Project Consultant; 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 exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within working days of notification; Implement the agreed proposals; Amend proposal if appropriate.



		ACTION		
EVENT	Environmental Team (ET)	Independent Environmental Checker (IEC)	Project Consultant	Contractor
LIMIT LEVEL				
Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform Project Consultant, Contractor, IEC and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Project Consultant informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the Project Consultant 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. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within working days of notification; Implement the agreed proposals; Amend proposal if appropriate.



		ACTION		
EVENT	Environmental Team (ET)	Independent Environmental Checker (IEC)	Project Consultant	Contractor
LIMIT LEVEL				
Exceedance for two or more consecutive samples	 Notify IEC, Project Consultant, 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 Project Consultant to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Project Consultant informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst Project Consultant, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Project Consultant accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance 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 Project Consultant until the exceedance is abated.



		ACTION		
EVENT	Environmental Team (ET)	Independent Environmental Checker (IEC)	Project Consultant	Contractor
Action Level	 Notify IEC and contractor; Carry out investigation; Report the results of investigation to the IEC, Project Consultant and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the Project Consultant accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented 	 Submit noise mitigation proposals to IEC; Implement noise mitigation proposals.
Limit Level	 Identify source; Inform IEC, Project Consultant, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, Project Consultant and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Project Consultant informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst Project Consultant, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the Project Consultant accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; 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 Project Consultant until the exceedance is abated.



		ACTION		
EVENT	Environmental Team (ET)	Independent Environmental Checker (IEC)	Project Consultant	Contractor
Action level being exceeded by one sampling day at water sensitive receiver(s)	 Identify the source(s) of impact by comparing the results with those collected at the gradient stations and the control stations as appropriate; If exceedance is found to be caused by the marine works, repeat <i>in-situ</i> measurement to confirm findings; Inform IEC and contractor; Check monitoring data, all plant, equipment and Contractor's working methods; If exceedance occurs at WSD salt water intake, inform WSD; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of exceedance. 	 Discuss mitigation measures with ET and Contractor; Review proposal on mitigation measures submitted by Contractor and advise the Project Consultant accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Discuss proposed mitigation measures with IEC; Make agreement on the mitigation proposal. 	 Inform the Project Consultant and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Amend working methods if appropriate; Discuss with ET and IEC and propose mitigation measures to IEC and Project Consultant; Implement the agree mitigation measures.
Action level being exceeded by two or more consecutive sampling days at water sensitive receiver(s)	 Identify the source(s) of impact by comparing the results with those collected at the gradient stations and the control stations as appropriate; If exceedance is found to be caused by the marine works, repeat <i>in-situ</i> measurement to confirm findings; Inform IEC and contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, and Contractor; Ensure mitigation measures are 	 Discuss mitigation measures with ET and Contractor; Review proposal on mitigation measures submitted by Contractor and advise the Project Consultant accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Discuss proposed mitigation measures with IEC; Make agreement on the mitigation proposal; Assess the effectiveness of the implemented mitigation measures. 	 Inform the Project Consultant and confirm notification of the noncompliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET, IEC and Project Consultant and propose mitigation measures to IEC and Project Consultant within 3 working



		ACTION		
EVENT	Environmental Team (ET)	Independent Environmental Checker (IEC)	Project Consultant	Contractor
	 implemented; 7. Prepare to increase the monitoring frequency to daily; 8. If exceedance occurs at WSD salt water intake, inform WSD; 9. Repeat measurement on next day of exceedance. 			days; 5. Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day at water sensitive receiver(s)	 Identify the source(s) of impact by comparing the results with those collected at the gradient stations and the control stations as appropriate; If exceedance is found to be caused by the marine works, repeat <i>in-situ</i> measurement to confirm findings; Inform IEC, contractor and EPD Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; If exceedance occurs at WSD salt water intake, inform WSD. ET should contact AFCD if the limit level is exceeded by one sampling day or two or more consecutive sampling days at water sensitive receiver(s). 	 Discuss mitigation measures with ET and Contractor; Review proposal on mitigation measures submitted by Contractor and advise the Project Consultant accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Discuss proposed mitigation measures with IEC, ET and Contractor; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. 	 Inform the Project Consultant and confirm notification of the noncompliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET, IEC and Project Consultant and submit proposal of mitigation measures to IEC and Project Consultant within 3 working days of notification; Implement the agreed mitigation measures.
Limit level	1. Identify the source(s) of impact by	1. Discuss mitigation	1. Discuss proposed	1. Inform the Project
being exceeded by two or more	comparing the results with those collected at the gradient stations and the	measures with ET and Contractor;	mitigation measures with IEC, ET and Contractor;	Consultant and confirm notification of the



		ACTION		
EVENT	Environmental Team (ET)	Independent Environmental Checker (IEC)	Project Consultant	Contractor
consecutive	control stations as appropriate;	2. Review proposal on	2. Request Contractor to	noncompliance in writing;
sampling days at	2. If exceedance is found to be caused	mitigation measures	critically review the	2. Rectify unacceptable
water sensitive	by the marine works, repeat <i>in-situ</i>	submitted by Contractor	working methods;	practice;
receiver(s)	measurement to confirm findings;	and advise the Project	3. Make agreement on the	3. Check all plant and
	3. Inform IEC, contractor and EPD;	Consultant	mitigation measures to be	equipment and consider
	4. Check monitoring data, all plant,	accordingly;	implemented;	changes of working methods;
	equipment and Contractor's working	3. Assess the effectiveness of	4. Assess the effectiveness	4. Discuss with ET, IEC and
	methods;	the implemented mitigation	of the implemented	Project Consultant and
	5. Discuss mitigation measures with	measures.	mitigation measures;	submit proposal of mitigation
	IEC, and Contractor;		5. Consider and instruct, if	measures to IEC and Project
	6. Ensure mitigation measures are		necessary, the Contractor	Consultant within 3 working
	implemented;		to slow down or to stop all	days of notification;
	7. Prepare to increase the monitoring		or part of the marine work	5. Implement the agreed
	frequency to daily;		until no exceedance of	mitigation measures;
	8. If exceedance occurs at WSD salt		Limit level.	6. As directed by the
	water intake, inform WSD;			Engineer, to slow down or to
	9. Repeat measurement on next day of			stop all or part of the
	exceedance.			construction activities.



Appendix F

Impact Monitoring Schedule of the Reporting Month and Coming Month

 $Z: \label{eq:loss} 2018 \ CS00975 \ (EDO-04-2018) \ (600 \ EM\&A \ Report \ Submission \ Monthly \ EM\&A \ Report \ 2023 \ March \ 2023 \ R0747v2. \ docx \ R0747v2. \ docx \ R0747v2. \ docx \ R0747v2. \ R0747v$



Impact Monitoring Schedule for the reporting month – March 2023

		Noise Monitoring	Air Quality M	Ionitoring
	Date	(Leq30min)	1-Hour TSP	24-Hour TSP
Wed	1-Mar-23			
Thu	2-Mar-23			✓
Fri	3-Mar-23	✓	✓	
Sat	4-Mar-23			
Sun	5-Mar-23			
Mon	6-Mar-23			
Tue	7-Mar-23			
Wed	8-Mar-23			✓
Thu	9-Mar-23	✓	✓	
Fri	10-Mar-23			
Sat	11-Mar-23			
Sun	12-Mar-23			
Mon	13-Mar-23			
Tue	14-Mar-23			\checkmark
Wed	15-Mar-23	✓	\checkmark	
Thu	16-Mar-23			
Fri	17-Mar-23			
Sat	18-Mar-23			
Sun	19-Mar-23			
Mon	20-Mar-23			✓
Tue	21-Mar-23	✓	✓	
Wed	22-Mar-23			
Thu	23-Mar-23			
Fri	24-Mar-23			
Sat	25-Mar-23			✓
Sun	26-Mar-23			
Mon	27-Mar-23	✓	✓	
Tue	28-Mar-23			
Wed	29-Mar-23			
Thu	30-Mar-23			
Fri	31-Mar-23			✓

✓	Monitoring Day	
	Sunday or Public Holiday	



Impact Monitoring Schedule for coming month – April 2023

	Noise Monitoring Air Quality Monitoring		Monitoring	
	Date	(Leq30min)	1-Hour TSP	24-Hour TSP
Sat	1-Apr-23		\checkmark	
Sun	2-Apr-23			
Mon	3-Apr-23			
Tue	4-Apr-23			
Wed	5-Apr-23			
Thu	6-Apr-23	✓	✓	✓
Fri	7-Apr-23			
Sat	8-Apr-23			
Sun	9-Apr-23			
Mon	10-Apr-23			
Tue	11-Apr-23	✓	✓	
Wed	12-Apr-23			✓
Thu	13-Apr-23			
Fri	14-Apr-23		✓	
Sat	15-Apr-23			
Sun	16-Apr-23			
Mon	17-Apr-23			
Tue	18-Apr-23			✓
Wed	19-Apr-23			
Thu	20-Apr-23	✓	✓	
Fri	21-Apr-23			
Sat	22-Apr-23			
Sun	23-Apr-23			
Mon	24-Apr-23			\checkmark
Tue	25-Apr-23			
Wed	26-Apr-23	✓	✓	
Thu	27-Apr-23			
Fri	28-Apr-23			
Sat	29-Apr-23			\checkmark
Sun	30-Apr-23			

✓	Monitoring Day
	Sunday or Public Holiday



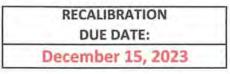
Appendix G

Calibration Certificates of Equipment and Accreditation Laboratory Certificate

Location :	Near Lo	ohas Park	c Phase 6	5		Date of Calibration: 2-Mar-23						
Location 1	ID :	AM2b				Ν	Vext Calibra	tion D	ate: 2-Ma	ay-23		
Name and	l Model:	TISCH H	HVS Mo	del TE-5170	0		Т	echnic	ian: Eric			
					(CONDI	TIONS					
				-			,					
	Se	a Level I	Pressure	(hPa)		1023.8		Со	rrected P	Pressure (mm Hg)	767.85
		Temp	perature	(°C)		19.8			Temp	erature (K)	293
				CA	ALIE	BRATIO	N ORIFICE					
				Make->	TIS	SCH			Ostd S	lope ->		2.10977
				Model->				(Qstd Inter	-		-0.03782
				Serial # ->	406	54			-	-		
						ALIBR						
					Ľ	ALIDK	ATION					
Plate	Plate H20 (L)H2O (R) H20 Qstd						IC			LINEA	R	
No.	(in)	(in)	(in)	(m3/min)	(0	chart)	corrected		R	EGRESS	SION	
18	5.70	5.70	11.4	1.641		57	58.31		Slope = 40.10		40.1063	
13	4.30	4.30	8.6	1.427		50 51.15			Inte	ercept =	-6.7539)
10	3.20	3.20	6.4	1.234		42 42.97			Corr. c	coeff. =	0.9987	1
7	2.30	2.30	4.6	1.049		35 35.81						
5	1.40	1.40	2.8	0.822		25	25.58					
Calculatio	- 201							EI		с спур.	г	
Qstd = $1/1$		$2\Omega(P_2/P_2)$	td)(Tetd	/Ta))_b]		70.00 FLOW RATE CHART						
IC = I[Squ				(1 <i>a))</i> -0]								
10 – 1[64	11(1 4/1 50	1)(1300/1	u)]			60.0	00					
Qstd = sta	indard flo	ow rate										
IC = correction			es			50.0	00				•	
I = actual		-				(jc)						
m = calibi	rator Qsto	d slope				8 40.0	00			*		
b = calibr	ator Qstd	intercep	t			odse						
Ta = actua	al temper	ature du	ring calil	oration (deg	g K	artro						
Pstd = act	ual press	ure durir	ng calibra	ation (mm]	Hg	30.0 I Chai						
						Actual chart response (IC			•			
	-			npler flow:		⋖ 20.0	00					
1/m((I)[\$	Sqrt(298/	Tav)(Pav	v/760)]-t))								
						10.0	00					
m = samp												
b = samp		ept				0.0						
I = chart r	-		.				0.000	0.500		000 Bata (m2/n	1.500	2.000
Tav = dai								Star	ndard Flow	kate (m3/n	ni n)	
Pav = dail	iy averag	e pressui	C									
1												

-													
Location :	Junction	n of Wan	Po Roa	d and Wan (O R	oad	Date of C	Calibratic	on: 2-M	ar-23			
Location I	D :	AM5				Ν	Vext Calibra	ation Da	te: 2-M	ay-23			
Name and	Model:	TISCH H	IVS Mo	del TE-517()		Т	'echnicia	an: Eric				
					C	CONDIT	TIONS						
	Se	a Level I	Pressure	(hPa)		1023.8		Cor	rected F	ressure	(mm Hg) 76'	7.85
		Temp	erature	(°C)		19.8			Tem	berature	(K)		293
		1											
				CA		BRATIO	N ORIFICE						
				Make->	TIS	CH			Ostd S	lope ->		2.1097	7
				Model->				O	-	cept ->		-0.037	
				Serial # ->				C		1			
					С	ALIBR	ATION						
Plate	H20 (L)	H2O (R)	H20	Qstd		Ι	IC			LINE	AR		
No.	(in)	(in)	(in)	(m3/min)	(c	hart)	corrected		F	REGRES			
18	5.80	5.80	11.6	1.655		59	60.36		Slope = 37.4252				
13	4.50	4.50	9.0	1.460		52	53.20			-	-1.343		
10	3.20	3.20	6.4	1.234		45	46.04			-	0.997		
7	2.30	2.30	4.6	1.049		36	36.83		0011.		0.997	0	
5	1.50	1.50	3.0	0.850		30	30.69						
	1.50	1.50	5.0	0.050	Г	50	50.07						
Calculatio	ons :							FLC	OW RAT	E CHAF	ат		
Qstd = 1/r	n[Sart(H	20(Pa/Ps)	hteT)(ht	/Ta)) - h]		70.0	00						1
IC = I[Sqr				(1u)) 0]									
10 – 1[0q1		1)(1500/1	u)]			60.0	00					*	_
Qstd = sta	ndard flo	w rate											
Qsta = sta IC = corre			ec			50.0	0						
I = actual		-	05			-				•			
m = calibr	-	-				se (I							
b = calibra	-	-	+			8 40.0	00						
	_	-		arction (da	- V	res			/				
	_		_	oration (deg	- 1	19 30.0	00						_
Pstd = act	ual press	ure durin	ig calibra	ation (mm I	Hg	Actual chart response (IC)							
For subse	equent ca	alculatio	n of san	pler flow:		Acti 20.0	00						
1/m((I)[S	-			-									
1/111((1)[c	941(2)0/	iu)/iu	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i>')</i>		10.0	0						
m = sampl	ler slope					10.0							
b = sample		ent											
I = chart r		opt			0.000	0.500	1	.000	1.500	· ·	- 000		
T = chart T Tav = dail	-	e temner	oture				0.000			.000 Rate (m3/		Ζ.	000
Pav = dail		-						Starte			,		
1 av – uall	y average	e pressui	C										





			Calibration (Certificatio	on Informat	ion				
al. Date:	December 1	15, 2022	Rootsn	neter 5/N:	438320	Ta:	295	°K		
Operator:	Jim Tisch					Pa:	748.0	mm Hg		
alibration	Model #:	TE-5025A	Calib	rator S/N:	4064					
	Run	Vol. Init (m3)	Vol. Final (m3)	and the second second second second second second second second second second second second second second second		ΔP (mm Hg)	ΔH (in H2O)			
	1	1	2	1	1.4430	3.2	2.00			
	2	3	4	1	1.0210	6.4	4.00	h		
	3	5	6	1	0.9170	7.9	5.00			
	4	7	8	1	0.8730	8.8	5.50			
	5	9	10	1	0.7210	12.8	8.00			
			D	ata Tabulat	pulation					
	Vstd	Qstd	√∆H(<u>Pa</u> Pstd	(Tstd) Ta)		Qa	$\sqrt{\Delta H(Ta/Pa)}$			
	(m3)	(x-axis)	(y-axi		Va	(x-axis)	(y-axis)			
	0.9900	0.6861	1.410		0.9957	0.6900	0.8881			
	0.9858	0.9655	1.994		0.9914	0.9711	1,2560			
	0.9838	1.0728 1.1255	2.229		0.9894	1.0790	1.4042			
	0.9820	1.3554			0.9882	1.1520	1.4728			
	0.5772	m=	2.8203 2.10977		0.5025	1.5052 m=	1.32110			
	QSTD	b=	-0.037		QA	b= -0.02382 r= 0.99998				
	40.0	r=	0.999	98						
				Calculation	ns			i		
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta			ΔVol((Pa-Δ	P)/Pa)			
		Vstd/∆Time				Va/ATime		1		
			For subseque	ent flow rat	rate calculations:					
	Qstd=	1/m ((\\ \[\[\] \ \ \ \ \ \ \ \ \ \ \ \ \	Pa <u>Tstd</u> Pstd Ta)-b)	Qa=	1/m ((√∆ł	I(Ta/Pa))-b)			
-	Standard	Conditions								
Tstd						RECA	LIBRATION			
Pstd		mm Hg				mmonde	nnual recalibrati	on no= 100		
H. calibra	K for manomet	ey er reading (i	n H2O)				Regulations Part			
	eter manomet						, Reference Met			
	bsolute temp						ended Particulat			
		essure (mm		5 S.		and the second second second	ere, 9.2.17, page			
Pa: actual b b: intercept					Th	e Aumosoni	16 9/1/ naup	30		

Tisch Environmental, Inc.

145 South Miami Avenue

Village of Cleves, OH 45002

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

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2307088
CLIENT	ACTION-UNITED ENVIRONMENTAL	
	SERVICES & CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED : 20-FEB-2023
		DATE OF ISSUE : 27-FEB-2023
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER +

General Comments

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the • item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	Position	
Kiland Jung.		
Richard Fung	Managing Director	

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release. ALS Technichem (HK) Pty Ltd

Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Kwai Tsing Hong Kong

WORK ORDER SUB-BATCH

CLIENT

PROJECT

: HK2307088

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING :



ALS Lab	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2307088-001	S/N: 366418	AIR	20-Feb-2023	S/N: 366418

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	366418
Equipment Ref:	EQ108

Standard Equipment:

Standard Equipment:	Higher Volume Sampler (TSP)
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018 & HVS 019
Last Calibration Date:	14 December 2022 & 10 January 2023

Equipment Verification Results:

Verification Date:

10, 11 &12 January 2023

Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
10-Jan-23	2hr1min	14:41 ~ 16:42	18.2	1018.8	7.6	584	4.8
11-Jan-23	2hr01min	13:16 ~ 15:17	18.1	1017.6	25.2	1677	13.9
11-Jan-23	2hr01min	15:25 ~ 17:26	18.1	1017.6	15.8	1106	9.1
12-Jan-23*	61mins	09:31 ~ 10:32	18.8	1014.5	112.8	3546	57.9
12-Jan-23*	61mins	10:36 ~ 11:37	18.8	1014.5	81.5	2110	34.5

(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) <u>685 (CPM)</u>

685

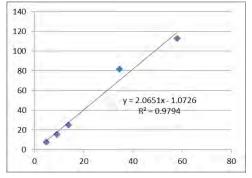
Linear Regression of Y or X

Slope (K-factor):

Correlation Coefficient (R)

0.9896 13 February 2023

2.0651 (µg/m³)/CPM



(CPM)

Remarks:

Date of Issue

1. Strong Correlation (R>0.8)

2. Factor 2.0651 (µg/m³)/CPM should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

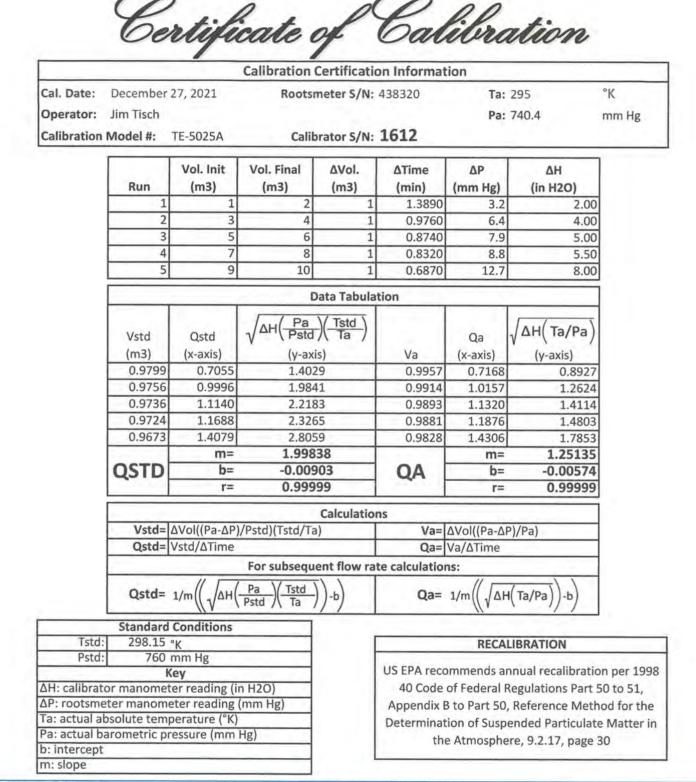
Operator :	Fai So	Signature :	Ja	Date :	13 February 2023
QC Reviewer :	Ben Tam	Signature :	*	Date :	13 February 2023

Location : Location I	D :		-	strial Buildi m(HVS 018		wai Ch	lung	Date of Calibration: 14-Dec-22 Next Calibration Date: 14-Mar-23
						COND	ITIONS	
	Se	a Level I Temp	Pressure erature	. ,	1	021.4 12.5		Corrected Pressure (mm Hg) 766.05 Temperature (K) 286
					CALI	BRATI		CE
			Calibrat	Make-> Model-> ion Date->	502	CH 25A ec-21		Qstd Slope -> 1.99838 Qstd Intercept -> -0.00903 Expiry Date-> 27-Dec-22
					(CALIB	RATION	
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)		I art)	IC corrected	LINEAR REGRESSION
18 13 10 8 5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		111 120 54 55.39 48 49.23 44 45.13 36 36.93 28 28.72		Slope = 29.6312 Intercept = 2.5287 Corr. coeff. = 0.9991			
	n[Sqrt(H t(Pa/Pstc ndard flc cted cha chart res ator Qstd ttor Qstd l temper ual press quent ca q rt (298/ er slope er interc	d)(Tstd/T ow rate rt respond ponse d slope intercep ature dur ure durin alculation Tav)(Pav	a)] es t ing cali g calibr n of san	bration (de ation (mm apler flow:		00 Actual chart response (IC) 00 01 01	.00	FLOW RATE CHART
Tav = dail Pav = dail								

FISCH

RECALIBRATION DUE DATE:

December 27, 2022



Tisch Environmental, Inc.

145 South Miami Avenue

Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9005

Location : Location I	D :		-	strial Buildi m(HVS 019		wai Cł	nung		Calibration: 10-Jan-23 ration Date: 9-Apr-23
						COND	ITIONS		
	Se	a Level I Temp	Pressure perature	. ,	1	018.8 18.2		Corrected Pressure Temperature	
					CALI	BRATI	ON ORIFIC	E	
			Calibrat	Make-> Model-> ion Date->	502	CH 25A ec-22		Qstd Slope -> Qstd Intercept -> Expiry Date->	-0.03782
					C	CALIB	RATION		
Plate No.		H2O (R) (in)	H20 (in)	Qstd (m3/min)	(ch	I art)	IC corrected	LINI REGRE	
18 13 10 8 5	6 6 12.0 1.683 4.9 4.9 4.9 9.8 1.523 4.9 3.9 3.9 7.8 1.361 4.9 2.4 2.4 4.8 1.071 3.9		5 4 4	55 55.79 48 48.69 44 44.63 36 36.52		Slope = Intercept =	Slope = 31.4802 Intercept = 1.9499 Corr. coeff. = 0.9967		
	n[Sqrt(H t(Pa/Pstc ndard flc cted cha chart res ator Qstd tor Qstd il temper ual press quent ca Sqrt(298/ er slope er interc	d)(Tstd/T ow rate rt respon ponse d slope intercep rature dur ure durin alculation Tav)(Pav	a)] es t ring cali ng calibr n of sam	bration (de ation (mm	· ·	00 905 905 905 905 901 901	0.00 0.00 0.00 0.00 0.00 0.000	FLOW RATE CHA	1.500 2.000
I = chart re Tav = dail Pav = dail	y averag	_					0.000	0.500 1.000 Standard Flow Rate (m	



RECALIBRATION DUE DATE:

December 15, 2023

Cal. Date:	December 15, 2022 Rootsmeter S/M			neter S/N: 4	138320	Ta:	295	°K	
Operator:	Jim Tisch					Pa:	748.0	mm Hg	
Calibration		TE-5025A	Calib	rator S/N: 4	4064				
								1	
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ		
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)		
	1	1	2	1	1.4430	3.2	2.00		
	2	3	4	1	1.0210	6.4	4.00	4	
	3	5	6	1	0.9170	7.9	5.00		
	4	7	8	1	0.8730	8.8	5.50	4	
	5	9	10	1	0.7210	12.8	8.00	1	
			D	ata Tabulat	ion		/]	
	4	1	Ind Pa	V Tstd \					
	Vstd	Qstd	√ ^{∆H} (Pstd	(Tstd) Ta		Qa	√∆H(Ta/Pa)		
	(m3)	(x-axis)	(y-axi	s)	Va	(x-axis)	(y-axis)		
	0.9900	0.6861	1.410	1	0.9957	0.6900	0.8881	1	
	0.9858	0.9655	1.9943		0.9914	0.9711	1.2560		
	0.9838	1.0728	2.229	6	0.9894	1.0790	1.4042		
	0.9826	1.1255	2.338	5	0.9882	1.1320	1.4728		
	0.9772	1.3554	2.820	3	0.9829	1.3632	1.7762	1	
		m=	2.109	77	1000	m=	1.32110]	
	QSTD	b=	-0.037		QA	b=	-0.02382		
		r=	0.999	98		r=	0.99998		
			re- 1	Calculation	S	Section 1		1	
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta)	Va=	∆Vol((Pa-∆l	P)/Pa)	1	
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time	1		
	1		For subseque	ent flow rat	e calculation	ns:		1	
	Qstd=	1/m ((\\ \ \ \ \ \ \ H (11 [[]]]]			$\mathbf{Qa=1/m}\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$			
	Standard	Conditions						·	
Tstd:	298.15	°K		Γ		RECA	LIBRATION		
Pstd:		mm Hg		1					
		(ey	112.01				nnual recalibration	 A second sec second second sec	
		ter reading (in					Regulations Part		
		eter reading perature (°K)					, Reference Met		
		ressure (mm					ended Particulat		
b: intercept		coore frinti	.6/		th	e Atmosphe	ere, 9.2.17, page	30	
m: slope				L					

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2307087
CLIENT	ACTION-UNITED ENVIRONMENTAL	
	SERVICES & CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED : 20-FEB-2023
		DATE OF ISSUE : 27-FEB-2023
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER +

General Comments

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the • item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	Position	
Kiland Fory		
Richard Fung	Managing Director	

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release. ALS Technichem (HK) Pty Ltd

Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Kwai Tsing Hong Kong

WORK ORDER SUB-BATCH

CLIENT

PROJECT

: HK2307087

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING :



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2307087-001	S/N: 366407	AIR	20-Feb-2023	S/N: 366407

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	366407
Equipment Ref:	EQ107

Standard Equipment:

Standard Equipment:	Higher Volume Sampler (TSP)		
Location & Location ID:	AUES office (calibration room)		
Equipment Ref:	HVS 018 & HVS 019		
Last Calibration Date:	14 December 2022 & 10 January 2023		

Equipment Verification Results:

Verification Date:

10, 11 &12 January 2023

Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
10-Jan-23	2hr1min	14:41 ~ 16:42	18.2	1018.8	7.6	613	5.1
11-Jan-23	2hr01min	13:16 ~ 15:17	18.1	1017.6	25.2	1786	14.8
11-Jan-23	2hr01min	15:25 ~ 17:26	18.1	1017.6	15.8	1206	10.0
12-Jan-23*	61mins	09:31 ~ 10:32	18.8	1014.5	112.8	3679	60.1
12-Jan-23*	61mins	10:36 ~ 11:37	18.8	1014.5	81.5	2077	33.9

(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 565 (CPM)

565

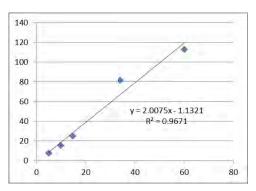
Linear Regression of Y or X

Slope (K-factor):

Correlation Coefficient (R)

0.9834 13 February 2023

2.0075 (µg/m³)/CPM



(CPM)

Remarks:

Date of Issue

1. Strong Correlation (R>0.8)

2. Factor 2.0075 (µg/m³)/CPM should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

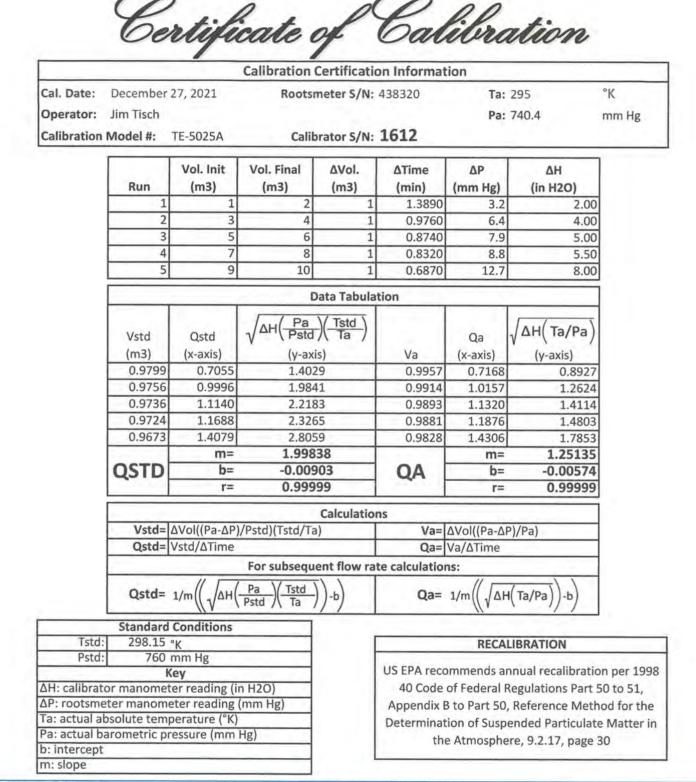
Operator :	Fai So	Signature :	Ja	Date :	13 February 2023
QC Reviewer :	Ben Tam	Signature :	\$6	Date :	13 February 2023

Location :Gold King Industrial Building, Kwai ChungLocation ID :Calibration Room(HVS 018)								Date of Calibration: 14-Dec-22 Next Calibration Date: 14-Mar-23
						COND	ITIONS	
	Se	a Level I Temp	Pressure erature	. ,	1	021.4 12.5		Corrected Pressure (mm Hg) 766.05 Temperature (K) 286
					CALI	BRATI		CE
Make-> TIS Model-> 502 Calibration Date-> 27-De								Qstd Slope -> 1.99838 Qstd Intercept -> -0.00903 Expiry Date-> 27-Dec-22
					(CALIB	RATION	
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)		I art)	IC corrected	LINEAR REGRESSION
18 13 10 8 5	6 4.8 3.8 2.5 1.5	6 4.8 3.8 2.5 1.5	12.0 9.6 7.6 5.0 3.0	1.783 1.595 1.420 1.152 0.894	4 4 3	4 8 4 6 8	55.39 49.23 45.13 36.93 28.72	Slope = 29.6312 Intercept = 2.5287 Corr. coeff. = 0.9991
	n[Sqrt(H t(Pa/Pstc ndard flc cted cha chart res ator Qstd ttor Qstd l temper ual press quent ca q rt (298/ er slope er interc	d)(Tstd/T ow rate rt respond ponse d slope intercep ature dur ure durin alculatior Tav)(Pav	a)] es t ing cali g calibr n of san	bration (de ation (mm apler flow:		00 Actual chart response (IC) 00 01 01	.00	FLOW RATE CHART
Tav = dail Pav = dail								

FISCH

RECALIBRATION DUE DATE:

December 27, 2022



Tisch Environmental, Inc.

145 South Miami Avenue

Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9005

Location :Gold King Industrial Building, Kwai ChungLocation ID :Calibration Room(HVS 019)									Calibration: 10-Jan-23 ration Date: 9-Apr-23
						COND	ITIONS		
	Se	a Level I Temp	Pressure perature	. ,	1	018.8 18.2		Corrected Pressure Temperature	
					CALI	BRATI	ON ORIFIC	E	
Make-> TIS Model-> 502 Calibration Date-> 15-De								Qstd Slope -> Qstd Intercept -> Expiry Date->	-0.03782
					C	CALIB	RATION		
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	(ch	I art)	IC corrected	LINI REGRE	
18 13 10 8 5	6 4.9 3.9 2.4 1.5	6 4.9 3.9 2.4 1.5	12.0 9.8 7.8 4.8 3.0	1.683 1.523 1.361 1.071 0.851	5 4 4 3	5 8 4 6 8	55.79 48.69 44.63 36.52 28.40	Slope = Intercept = Corr. coeff. =	31.4802 1.9499
	n[Sqrt(H t(Pa/Pstc ndard flc cted cha chart res ator Qstd tor Qstd il temper ual press quent ca Sqrt(298/ er slope er interc	d)(Tstd/T ow rate rt respon ponse d slope intercep rature dur ure durin alculation Tav)(Pav	a)] es t ring cali ng calibr n of sam	bration (de ation (mm	· ·	00 905 905 905 905 901 901	0.00 0.00 0.00 0.00 0.00 0.000	FLOW RATE CHA	1.500 2.000
I = chart re Tav = dail Pav = dail	y averag	_					0.000	0.500 1.000 Standard Flow Rate (m	



RECALIBRATION DUE DATE:

December 15, 2023

Cal. Date:	December 15, 2022 Rootsmeter S/M			neter S/N: 4	138320	Ta:	295	°K	
Operator:	Jim Tisch					Pa:	748.0	mm Hg	
Calibration		TE-5025A	Calib	rator S/N: 4	4064				
								1	
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ		
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)		
	1	1	2	1	1.4430	3.2	2.00		
	2	3	4	1	1.0210	6.4	4.00	4	
	3	5	6	1	0.9170	7.9	5.00		
	4	7	8	1	0.8730	8.8	5.50	4	
	5	9	10	1	0.7210	12.8	8.00	1	
			D	ata Tabulat	ion		/]	
	4	1	Ind Pa	V Tstd \					
	Vstd	Qstd	√ ^{∆H} (Pstd	(Tstd) Ta		Qa	√∆H(Ta/Pa)		
	(m3)	(x-axis)	(y-axi	s)	Va	(x-axis)	(y-axis)		
	0.9900	0.6861	1.410	1	0.9957	0.6900	0.8881	1	
	0.9858	0.9655	1.9943		0.9914	0.9711	1.2560		
	0.9838	1.0728	2.229	6	0.9894	1.0790	1.4042		
	0.9826	1.1255	2.338	5	0.9882	1.1320	1.4728		
	0.9772	1.3554	2.820	3	0.9829	1.3632	1.7762	1	
		m=	2.109	77	1000	m=	1.32110]	
	QSTD	b=	-0.037		QA	b=	-0.02382		
		r=	0.999	98		r=	0.99998		
			re- 1	Calculation	S	Section 1		1	
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta)	Va=	∆Vol((Pa-∆l	P)/Pa)	1	
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time	1		
	1		For subseque	ent flow rat	e calculation	ns:		1	
	Qstd=	1/m ((\\ \ \ \ \ \ \ H (11 [[]]]]			$\mathbf{Qa=1/m}\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$			
	Standard	Conditions						·	
Tstd:	298.15	°K		Γ		RECA	LIBRATION		
Pstd:		mm Hg		1					
		(ey	112.01				nnual recalibration	 A second sec second second sec	
		ter reading (in					Regulations Part		
		eter reading perature (°K)					, Reference Met		
		ressure (mm					ended Particulat		
b: intercept		coore frinti	.6/		th	e Atmosphe	ere, 9.2.17, page	30	
m: slope				L					

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2307086
CLIENT	ACTION-UNITED ENVIRONMENTAL	
	SERVICES & CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED : 20-FEB-2023
		DATE OF ISSUE : 27-FEB-2023
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER +

General Comments

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the • item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	Position	
Kiland Jung.		
Richard Fung	Managing Director	

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release. ALS Technichem (HK) Pty Ltd

Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Kwai Tsing Hong Kong

WORK ORDER SUB-BATCH

CLIENT

PROJECT

: HK2307086

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING :



ALS Lab **Client's Sample ID** Sample Sample Date External Lab Report No. ID Туре HK2307086-001 AIR 20-Feb-2023 S/N: 2X6145 S/N: 2X6145

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	2X6145
Equipment Ref:	EQ105

Standard Equipment:

Standard Equipment:	Higher Volume Sampler (TSP)
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018 & HVS 019
Last Calibration Date:	14 December 2022 & 10 January 2023

Equipment Verification Results:

Verification Date:

10, 11 &12 January 2023

Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
10-Jan-23	2hr1min	14:41 ~ 16:42	18.2	1018.8	7.6	569	4.7
11-Jan-23	2hr01min	13:16 ~ 15:17	18.1	1017.6	25.2	1379	11.4
11-Jan-23	2hr01min	15:25 ~ 17:26	18.1	1017.6	15.8	1106	9.1
12-Jan-23*	61mins	09:31 ~ 10:32	18.8	1014.5	112.8	3470	56.7
12-Jan-23*	61mins	10:36 ~ 11:37	18.8	1014.5	81.5	2177	35.6

(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 586 (CPM)

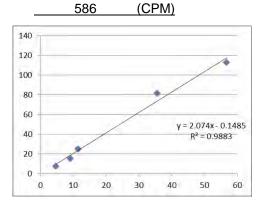
Linear Regression of Y or X

Slope (K-factor):

Correlation Coefficient (R)

0.9941 13 February 2023

2.074 (µg/m³)/CPM



Remarks:

Date of Issue

1. Strong Correlation (R>0.8)

2. Factor 2.074 (µg/m³)/CPM should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

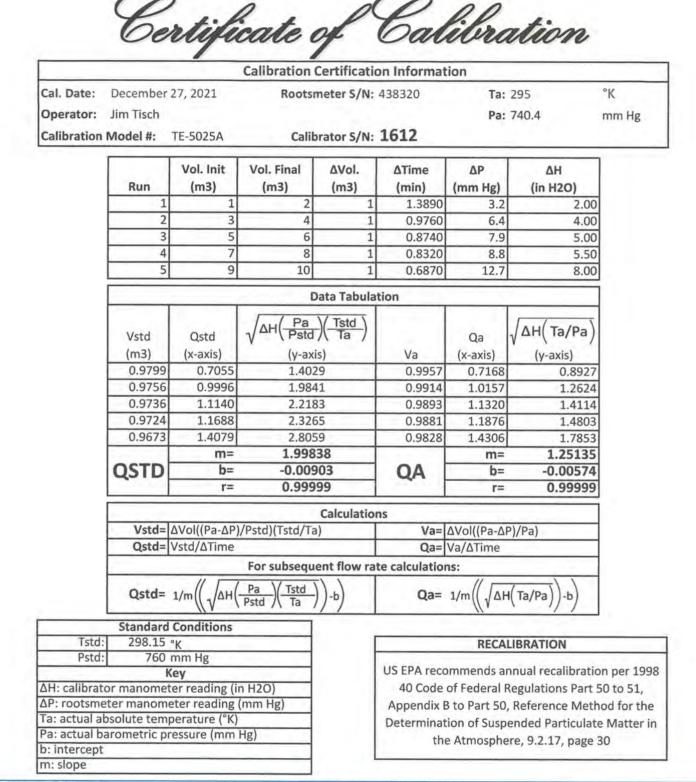
Operator :	Fai So	Signature :	Ja	Date :	13 February 2023
QC Reviewer :	Ben Tam	Signature :	\$6	Date :	13 February 2023

Location :Gold King Industrial Building, Kwai ChungLocation ID :Calibration Room(HVS 018)							Date of Calibration: 14-Dec-22 Next Calibration Date: 14-Mar-23	
						COND	ITIONS	
	Se	a Level I Temp	Pressure erature	. ,	1	021.4 12.5		Corrected Pressure (mm Hg) 766.05 Temperature (K) 286
					CALI	BRATI		CE
			Calibrat	Make-> Model-> ion Date->	502	CH 25A ec-21		Qstd Slope -> 1.99838 Qstd Intercept -> -0.00903 Expiry Date-> 27-Dec-22
					(CALIB	RATION	
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)		I art)	IC corrected	LINEAR REGRESSION
18 13 10 8 5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				4 4 3	4 55.39 8 49.23 4 45.13 6 36.93 28 28.72		Slope = 29.6312 Intercept = 2.5287 Corr. coeff. = 0.9991
	n[Sqrt(H t(Pa/Pstc ndard flc cted cha chart res ator Qstd ttor Qstd l temper ual press quent ca q rt (298/ er slope er interc	d)(Tstd/T ow rate rt respond ponse d slope intercep ature dur ure durin alculatior Tav)(Pav	a)] es t ing cali g calibr n of san	bration (de ation (mm apler flow:		00 Actual chart response (IC) 00 01 01	.00	FLOW RATE CHART
Tav = dail Pav = dail								

FISCH

RECALIBRATION DUE DATE:

December 27, 2022



Tisch Environmental, Inc.

145 South Miami Avenue

Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9005

Location : Gold King Industrial Building, Kwai Chun Location ID : Calibration Room(HVS 019)							nung		Calibration: 10-Jan-23 ration Date: 9-Apr-23		
						COND	ITIONS				
	Se	a Level I Temp	Pressure perature	. ,	1	018.8 18.2		Corrected Pressure Temperature			
					CALI	BRATI	ON ORIFIC	E			
			Calibrat	Make-> Model-> ion Date->	502	CH 25A ec-22		Qstd Slope -> Qstd Intercept -> Expiry Date->	-0.03782		
					C	CALIB	RATION				
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	(ch	I art)	IC corrected	LINI REGRE			
18 13 10 8 5	18 6 6 12.0 1.683 2.4 13 4.9 4.9 9.8 1.523 4.9 10 3.9 3.9 7.8 1.361 4.9 8 2.4 2.4 4.8 1.071 4.9				5 4 4	55 55.79 48 48.69 44 44.63 36 36.52		Slope = Intercept =	Slope = 31.4802 Intercept = 1.9499 Corr. coeff. = 0.9967		
	n[Sqrt(H t(Pa/Pstc ndard flc cted cha chart res ator Qstd tor Qstd il temper ual press quent ca Sqrt(298/ er slope er interc	d)(Tstd/T ow rate rt respon ponse d slope intercep rature dur ure durin alculation Tav)(Pav	a)] es t ring cali ng calibr n of sam	bration (de ation (mm	· ·	00 905 905 905 905 901 901	0.00 0.00 0.00 0.00 0.00 0.000	FLOW RATE CHA	1.500 2.000		
I = chart re Tav = dail Pav = dail	y averag	_					0.000	0.500 1.000 Standard Flow Rate (m			



RECALIBRATION DUE DATE:

December 15, 2023

Cal. Date: December 15, 2022 Rootsmeter S/				neter S/N: 4	: 438320 Ta: 295 °K			°K		
Operator:	Jim Tisch					Pa:	748.0	mm Hg		
Calibration		TE-5025A	Calib	rator S/N: 4	4064					
								1		
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ			
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)			
	1	1	2	1	1.4430	3.2	2.00			
	2	3	4	1	1.0210	6.4	4.00	4		
	3	5	6	1	0.9170	7.9	5.00			
	4	7	8	1	0.8730	8.8	5.50	4		
	5	9	10	1	0.7210	12.8	8.00	1		
			D	ata Tabulat	ion		/]		
	4	11	Ind Pa	V Tstd \						
	Vstd	Qstd	√ ^{∆H} (Pstd	(Tstd) Ta		Qa	√∆H(Ta/Pa)			
	(m3)	(x-axis)	(y-axis)		Va	(x-axis)	(y-axis)			
	0.9900	0.6861	1.4101		0.9957	0.6900	0.8881	1		
	0.9858	0.9655	1.9943		0.9914	0.9711	1.2560			
	0.9838	1.0728	2.2296		0.9894	1.0790	1.4042			
	0.9826	1.1255	2.3385		0.9882	1.1320	1.4728			
	0.9772	1.3554	2.8203		0.9829	1.3632	1.7762	1		
		m=	2.109	77	1000	m=	1.32110]		
	QSTD	b=	-0.037		QA [b=	-0.02382			
		r=	0.999	98		r=	0.99998			
			re- 1	Calculation	S	Section 1		1		
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta)	Va=	∆Vol((Pa-∆l	P)/Pa)	1		
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time		1		
	1		For subseque	ent flow rat	e calculation	ns:		1		
	Qstd=	Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$				$Qa = 1/m \left(\sqrt{\Delta H (Ta/Pa)} \right) - b$				
	Standard	Conditions						·		
Tstd:	298.15	°K		Γ		RECA	LIBRATION			
Pstd:		mm Hg		1						
		(ey	112.01				nnual recalibration	 A second sec second second sec		
		ter reading (in					Regulations Part			
		eter reading perature (°K)					, Reference Met			
		ressure (mm					ended Particulat			
b: intercept		coore frinti	.6/		th	e Atmosphe	ere, 9.2.17, page	30		
m: slope				L						

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C226777 證書編號

ITEM TESTED / 送檢	項目	(Job No. / 序引編號: IC22-2282)	Date of Receipt / 收件日期: 8 November 2022
Description / 儀器名稱	1	Sound Level Meter (EQ013)	
Manufacturer / 製造商		Rion	
Model No. / 型號	:	NL-52	
Serial No. / 編號	:	00921191	
Supplied By / 委託者	t	Action-United Environmental Services	and Consulting
		Unit A, 20/F., Gold King Industrial Bu	ilding,
		35-41 Tai Lin Pai Road, Kwai Chung,	N.T.

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (50±25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 19 November 2022

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. The results do not exceed manufacturer's specification. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	: H T Wong Assistant Engineer			
Certified By 核證	: KCLee Engineer	Date of Issue 簽發日期	4	21 November 2022

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C226777 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C220381
CL281	Multifunction Acoustic Calibrator	AV210017

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

1.1.1	UUT	Setting		Applie	d Value	UUT	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	
30 - 130	LA	A	Fast	94.00	1	93.8	± 1.1

6.1.2 Linearity

	UU	T Setting		Applie	d Value	UUT		
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)		
30 - 130 L	L _A	A	Fast	94.00	1	93.8 (Ref.)		
10.00				104.00		103.9		
		1. In	Total and	114.00		113.9		

IEC 61672 Class 1 Spec. : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

	UUT	Setting		Applie	d Value	UUT	IEC 61672			
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Spec. (dB)			
30 - 130	LA	Α	Fast	94.00	1	93.8	Ref.			
			Slow			93.8	± 0.3			

本證書所載校正用之測試器材均可溯源至國際標準。局部澳印本證書需先獲本實驗所書面批准。

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



輝創工程有限公司 Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C226777 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT	Setting		Appl	ied Value	UUT	IEC 61672		
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)		
30 - 130	L _A	Α	Fast	94.00	63 Hz	67.6	-26.2 ± 1.5		
				1.1.1	125 Hz	77.6	-16.1 ± 1.5		
					250 Hz	85.1	-8.6 ± 1.4		
					500 Hz	90.5	-3.2 ± 1.4		
					1 kHz	93.8	Ref.		
	5				2 kHz	95.0	$+1.2 \pm 1.6$		
					4 kHz	94.8	$+1.0 \pm 1.6$		
					8 kHz	92.8	-1.1 (+2.1 ; -3.1)		
					16 kHz	85.8	-6.6 (+3.5 ; -17.0)		

6.3.2 C-Weighting

	UUT	Setting		Appl	ied Value	UUT	IEC 61672		
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)		
30 - 130	Lc	C	Fast	94.00	63 Hz	92.9	-0.8 ± 1.5		
	1.1.1				125 Hz	93.6	-0.2 ± 1.5		
					250 Hz	93.8	0.0 ± 1.4		
					500 Hz	93.8	0.0 ± 1.4		
					1 kHz	93.8	Ref.		
					2 kHz	93.6	-0.2 ± 1.6		
					4 kHz	93.0	$\textbf{-0.8} \pm 1.6$		
		· · · · · · · · · · · · · · · · · · ·			8 kHz	90.9	-3.0 (+2.1 ; -3.1)		
			· · · · · · · · · · · · · · · · · · ·		16 kHz	83.9	-8.5 (+3.5; -17.0)		

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate of Calibration 校正證書

Certificate No. : C226777 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 12910

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :	94 dB : 63 Hz - 125 Hz	$\pm 0.35 \text{ dB}$
	250 Hz - 500 Hz	$\pm 0.30 \text{ dB}$
	1 kHz	$\pm 0.20 \text{ dB}$
	2 kHz - 4 kHz	$\pm 0.35 \text{ dB}$
	8 kHz	$\pm 0.45 \text{ dB}$
	16 kHz	$\pm 0.70 \text{ dB}$
	104 dB : 1 kHz	$\pm 0.10 \text{ dB}$ (Ref. 94 dB)
	114 dB : 1 kHz	$\pm 0.10 \text{ dB}$ (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C224779 證書編號

ITEM TESTED / 送檢」	項目	(Job No. / 序引編號: IC22-1539)	Date of Receipt / 收件日期: 4 August 2022
Description / 儀器名稱	:	Sound Level Calibrator (EQ085)	
Manufacturer / 製造商	2	Rion	
Model No. / 型號	:	NC-73	
Serial No. / 編號	1	10655561	
Supplied By / 委託者	:	Action-United Environmental Services and	nd Consulting
		Unit A, 20/F., Gold King Industrial Build	ding,
		35-41 Tai Lin Pai Road, Kwai Chung, N.	.Т.
TEST CONDITIONS /	加州	- Mar 1/4-	

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (50±25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 20 August 2022

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed manufacturer's specification & user's specified acceptance criteria.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	: H T Wong Assistant Engineer		
Certified By 核證	: K C Lee Engineer	Date of Issue 簽發日期	\$ 23 August 2022

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate of Calibration 校正證書

Certificate No.: C224779 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment :

Equipment ID	Description	Certificate No
CL130	Universal Counter	C223647
CL281	Multifunction Acoustic Calibrator	AV210017
TST150A	Measuring Amplifier	C221750

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.0	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	User's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.953	1 kHz ± 6 %	±1

Remarks : - The user's specified acceptance criteria (user's spec.) is a customer pre-defined operating tolerance of the UUT, suitable for one's own intended use.

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

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The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此證明

ALS TECHNICHEM (HK) PTY LIMITED

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong 香港新界葵涌永業街1-3號忠信針織中心11樓

is accredited by the Hong Kong Accreditation Service (HKAS) to ISO/IEC 17025:2017 for performing specific laboratory activities as listed in the scope of accreditation within the test category of 獲香港認可處根據ISO/IEC 17025:2017認可 進行載於認可範圍內下述測試類別中的指定實驗所活動

Environmental Testing

環境測試

 This accreditation to ISO/IEC 17025:2017 demonstrates technical competence for a defined scope and the implementation of a management system relevant to laboratory operation (see joint IAF-ILAC-ISO Communiqué).

 此項 ISO/IEC 17025:2017 的認可資格證明此實驗所具備指定範疇內所須的技術能力並 實施一套與實驗所運作相關的管理體系 (見國際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of HKAS is affixed hereto by the authority of the HKAS Executive 現經香港認可處執行機關授權在此蓋上香港認可處的印章



Date of First Registration: 15 September 1995 首次註冊日期:一九九五年九月十五日

SHUM Wai-leung, Executive Administrator 執行幹事 沈偉良 Issue Date: 28 February 2020 簽發日期;二零二零年二月二十八日

Registration Number : HOKLAS 066 註冊號碼 :



Appendix H

Database of Monitoring Results

 $Z: \label{eq:loss} 2018 \ CS00975 \ (EDO-04-2018) \ (600 \ EM\&A \ Report \ Submission \ Monthly \ EM\&A \ Report \ 2023 \ March \ 2023 \ R0747v2. \ docx \ R0747v2. \ docx \ R0747v2. \ docx \ R0747v2. \ R0747v$

Air Quality – 24 Hour TSP

24-hour TSP	Monitoring	g Data for A	AM2b												
DATE	SAMPLE NUMBER				CHART READING			AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER V (g)	DUST WEIGHT COLLECTED	24-hr TSP (µg/m ³)
	NOWIDER	INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m³/min)	(std m ³)	INITIAL	FINAL	(g)	(µg/m)
2-Mar-23	29099	27037.02	27061.02	1440.00	48	48	48.0	19.5	1016.1	1.38	1984	2.7436	3.0488	0.3052	154
8-Mar-23	29159	27061.02	27085.02	1440.00	48	48	48.0	21.6	1019.7	1.38	1981	2.7547	2.9347	0.1800	91
14-Mar-23	29217	27085.02	27109.02	1440.00	48	48	48.0	22.9	1016.8	1.37	1975	2.7069	3.0226	0.3157	160
20-Mar-23	29164	27109.02	27133.02	1440.00	48	48	48.0	21.8	1012	1.37	1974	2.7434	2.9430	0.1996	101
25-Mar-23	29219	27133.02	27157.02	1440.00	48	48	48.0	23.4	1031.1	1.38	1986	2.7047	2.7671	0.0624	31
31-Mar-23	29239	27157.02	27181.02	1440.00	48	48	48.0	21.3	1016.1	1.37	1979	2.7120	2.7648	0.0528	27
24-hour TSF	Monitoring	g Data for A	AM5												
DATE	SAMPLE NUMBER			CHART READING		AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER V (g		DUST WEIGHT COLLECTED	24-hr TSP		
	NUNIDER	INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
2-Mar-23	29169	20680.90	20704.90	1440.00	52	52	52.0	19.5	1016.1	1.44	2074	2.7345	3.0634	0.3289	159
8-Mar-23	29158	20704.90	20728.90	1440.00	52	52	52.0	21.6	1019.7	1.44	2070	2.7558	2.8761	0.1203	58
14-Mar-23	29218	20728.90	20752.90	1440.00	52	52	52.0	22.9	1016.8	1.43	2063	2.7014	3.0542	0.3528	171
20-Mar-23	29220	20752.90	20776.90	1440.00	52	52	52.0	21.8	1012	1.43	2062	2.7033 2.9783		0.2750	133
25-Mar-23	29200	20776.90	20800.90	1440.00	52	52	52.0	23.4	1031.1	1.44	2075	2.7541 2.8804		0.1263	61
31-Mar-23	29241	20800.90	20824.90	1440.00	52	52	52.0	21.3	1016.1	1.44	2068	2.7120	2.9611	0.2491	120





Construction Noise

Daytime No	ise Mea	asureme	ent Resu	lts (dB)	at CNN	MS1														
	Start	1st	Leq (5n	nin)	2nd	Leq (51	nin)	3rd	Leq (5r	nin)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5r	nin)	
Date	Time	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq30min, dB(A)
3-Mar-23	11:15	64.7	67.6	57.6	59.7	62.7	54.3	61.3	63.8	55.9	60.4	63.9	54.5	62.4	65.0	57.2	61.4	64.5	56.0	62.0
9-Mar-23	11:16	61.5	63.0	57.3	59.3	61.3	55.2	57.1	60.7	52.7	59.6	62.0	53.3	60.0	62.4	52.9	57.2	60.3	52.8	59.4
15-Mar-23	10:26	65.7	70.6	56.4	59.6	62.0	55.0	58.2	61.8	53.9	58.4	60.5	53.8	58.6	60.9	53.6	58.4	61.3	54.4	60.9
21-Mar-23	10:05	61.2	63.6	68.1	60.8	62.5	56.6	61.4	63.8	57.9	60.7	66.2	57.3	63.4	68.1	59.2	59.2	61.7	57.8	61.3
27-Mar-23	10:00	60.5	63.6	57.3	59.8	61.5	56.2	61.0	62.3	56.8	65.2	66.6	58.2	61.4	62.5	56.6	61.7	62.9	57.2	62.0
Daytime No	Daytime Noise Measurement Results (dB) at CNMS2																			
	Start	1st	Leq (5n	nin)	2nd	Leq (51	nin)	3rd	Leq (5r	nin)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5r	nin)	
Date	Time	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq30min, dB(A)
3-Mar-23	13:17	60.2	63.4	59.6	61.7	64.8	60.2	59.7	61.4	57.6	59.8	63.2	58.6	59.4	60.9	59.6	60.1	62.1	57.4	60.2
9-Mar-23	13:09	63.5	66.0	62.0	63.6	65.7	62.2	63.5	66.0	61.7	63.4	65.8	61.8	63.4	65.7	62.0	63.3	65.5	62.0	63.5
15-Mar-23	11:00	62.3	64.6	55.2	59.5	62.8	54.0	60.9	63.8	55.4	59.5	62.4	54.3	59.0	61.9	54.5	58.0	61.5	51.8	60.1
21-Mar-23	9:27	61.7	63.9	56.8	60.5	62.7	56.3	59.8	61.8	56.0	62.3	64.1	58.2	60.6	62.7	56.1	60.5	63.3	56.6	61.0
27-Mar-23	9:25	58.6	61.0	55.3	60.5	62.4	55.8	61.2	63.6	56.3	58.8	61.7	56.3	60.4	61.2	56.8	58.2	60.8	55.8	59.8
Daytime No	ise Mea	asureme	ent Resu	lts (dB)	at CNN	AS5														
	Start.	1st	Leq (5n	nin)	2nd	Leq (51	nin)	3rd	Leq (5r	nin)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5r	nin)	
Date	Start Time	Leq,	L10,	L90,	Leq30min, dB(A)															
	Time	dB(A)																		
3-Mar-23	10:25	62.3	62.6	57.0	60.9	63.1	56.8	64.3	63.9	56.8	64.6	65.6	57.5	62.5	65.4	56.8	62.3	64.8	57.0	63.0
9-Mar-23	10:31	62.8	64.1	58.2	64.2	63.5	58.4	60.8	62.8	57	61.4	62.6	59.7	60.6	62.9	57.9	60	62	57.2	61.9
15-Mar-23	9:38	65.7	67.6	58.6	61.7	64.3	57.6	62.6	65.4	58.7	62.8	66	58.5	60.8	63.3	57.2	62.7	65.3	58.4	63.0
21-Mar-23	11:00	63.3	65.6	60.7	62.2	65.5	61.1	60.8	63	58.8	61.6	62.5	58.8	60.9	63.1	58.2	60.4	62.9	57.7	61.6
27-Mar-23	11:00	66.3	69.2	59	63.4	67.8	60.5	63.7	65.6	60.4	62.8	63.6	60	64.2	67.3	60.6	63.5	65.8	60.8	64.1



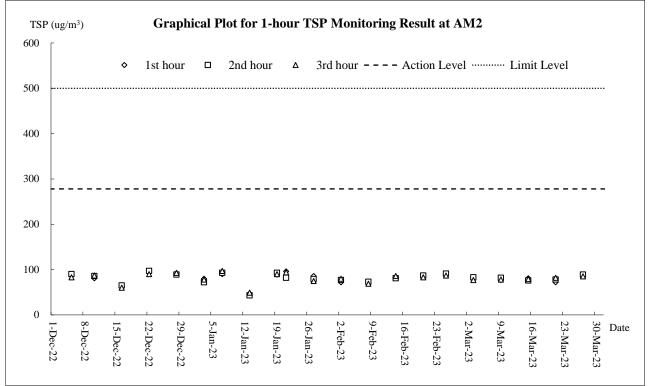
Appendix I

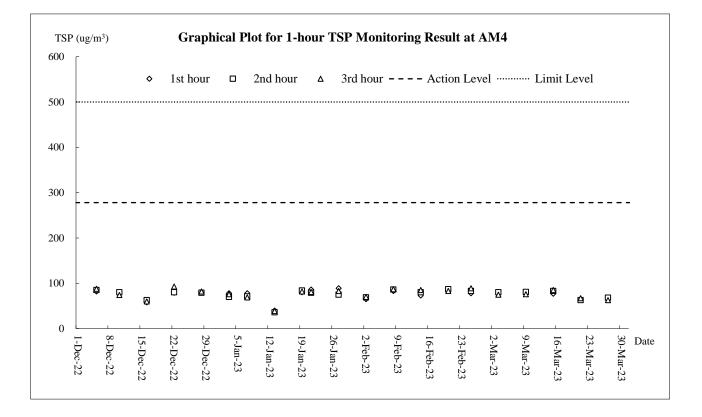
Graphical Plots of Monitoring Results

CEDD Contract Agreement No. EDO/04/2018 -Environmental Team for Cross Bay Link, Tseung Kwan O Monthly Environmental Monitoring & Audit Report – March 2023



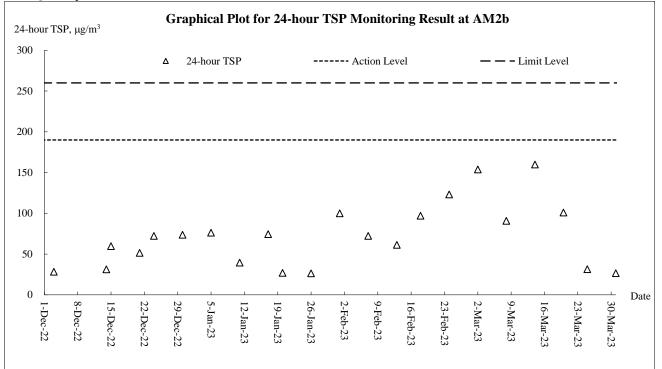
Air Quality – 1 Hour TSP

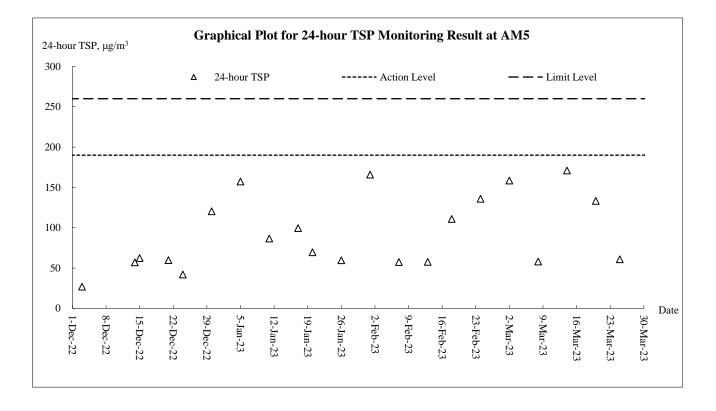






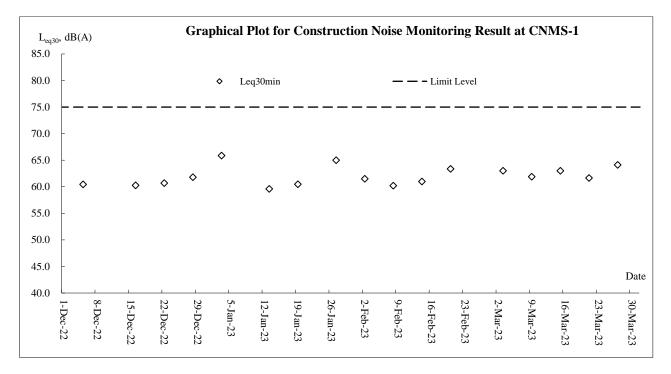
Air Quality - 24-Hour TSP

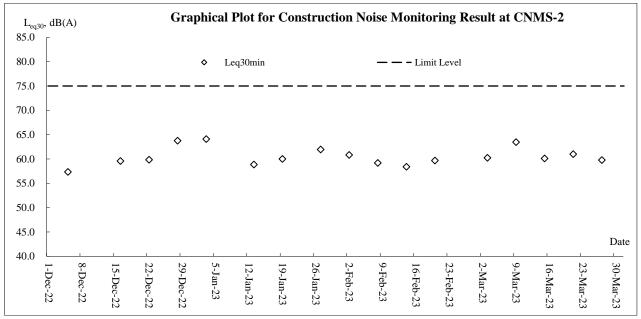




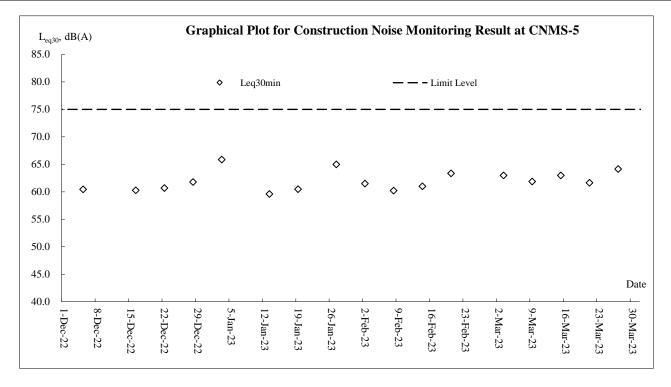


Construction Noise











Appendix J

Meteorological Data

CEDD Contract Agreement No. EDO/04/2018 -Environmental Team for Cross Bay Link, Tseung Kwan O Monthly Environmental Monitoring & Audit Report – March 2023



				Ts	seung K	wan O Station	
Date		Weather	Total Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction (degree)
1-Mar-23	Wed	Fine. Warm and dry during the day.	0	18.9	7	72.5	S/SW
2-Mar-23	Thu	Some haze later. Light winds.	0	19.1	8.7	73.7	E/SE
3-Mar-23	Fri	Fine. Dry during the day.	0	Maintenance	9.7	Maintenance	E/NE
4-Mar-23	Sat	Moderate to fresh easterly winds	0	19.3	8.7	69.0	E/NE
5-Mar-23	Sun	Fine and dry. Moderate to fresh easterly winds	0	18.8	8.5	56.2	E/NE
6-Mar-23	Mon	Fine. Warm and very dry during the day.	0	18.9	10	55.7	NE
7-Mar-23	Tue	Fine and dry. Warm in the afternoon	0	19.3	7.5	51.2	N/NE
8-Mar-23	Wed	Fine and dry. Rather warm in the afternoon.	0	20.6	6.2	80.7	S/SW
9-Mar-23	Thu	Moderate easterly winds.	0	22.1	6.2	75.5	S/SW
10-Mar-23	Fri	Fine and dry. Moderate to fresh easterly winds	0	21.7	8.7	71.0	E/NE
11-Mar-23	Sat	Fine. Warm and very dry during the day.	0	20.9	7.8	72.5	E/NE
12-Mar-23	Sun	Mainly cloudy. Moderate easterly winds.	0.1	22.3	9.7	61.5	E/NE
13-Mar-23	Mon	Mainly cloudy. Sunny intervals in the afternoon.	Trace	18.6	7.5	76.0	E/NE
14-Mar-23	Tue	Dry with sunny periods in the afternoon	0	18.9	6.2	80.5	N/NE
15-Mar-23	Wed	Mainly fine. Dry during the day.	0	19.9	7.0	81.7	E/NE
16-Mar-23	Thu	Moderate easterly winds.	Trace	21.0	8.7	73.7	E/NE
17-Mar-23	Fri	Moderate to fresh easterly winds	0.5	22.3	7.7	79.0	E/NE
18-Mar-23	Sat	Moderate southerly winds.	0	22.4	6.7	82.2	E/NE
19-Mar-23	Sun	Mainly cloudy. One or two showers tomorrow.	0.6	20.2	6.7	90.7	E/NE
20-Mar-23	Mon	Coastal mist in the morning	0.3	21.2	6.7	91.5	E/NE
21-Mar-23	Tue	Sunny intervals during the day.	Trace	22.6	7.2	87.5	E/NE
22-Mar-23	Wed	Sunny intervals in the afternoon.	Trace	24.5	8.2	85.5	S/SW
23-Mar-23	Thu	Mainly cloudy with isolated showers.	0	24.9	7.5	84.5	S/SW
24-Mar-23	Fri	Mainly cloudy with isolated showers.	0	25.5	6.2	83.0	S/SW
25-Mar-23	Sat	Cloudy with occasional rain.	53.5	22.7	7.7	91.0	S/SW
26-Mar-23	Sun	Fresh easterly winds	5.9	20.0	7.5	95.7	N/NE
27-Mar-23	Mon	Cloudy with occasional rain.	6.3	17.9	9	89.7	E/NE
28-Mar-23	Tue	Cloudy with a few rain patches.	Trace	18.1	10	90.0	N/NE
29-Mar-23	Wed	Moderate to fresh easterly winds	0.9	19.3	6.7	90.5	E/NE
30-Mar-23	Thu	Cloudy with a few showers.	0.3	19.9	5.5	95	N/NE
31-Mar-23	Fri	Mainly cloudy with a few showers.	1.9	19.5	5	98.7	NE



Appendix K

Waste Flow Table



Contract 1

Monthly Summary Waste Flow Table for <u>2023</u> (year)

Name of Person completing the record: Sedo Sze (EO)

Project : Cross Bay Link, TKO, Main Bridge and Associated Works

	loss Duy Link, T				nerated Monthly		Ac	tual Quantities	of C&D Waste	s Generated Mo	onthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	$(in '000m^3)$	$(in '000m^3)$	$(in '000m^3)$	(in '000m ³)	$(in '000m^3)$	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m ³)
Jan	0.018	0.000	0.000	0.000	0.018	0.000	0.000	0.160	0.000	0.000	0.148
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.210	0.000	0.000	0.052
Mar	0.006	0.000	0.000	0.000	0.006	0.000	0.000	0.215	0.000	0.000	0.243
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sub-total	0.024	0.000	0.000	0.000	0.024	0.000	0.000	0.585	0.000	0.000	0.443
Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	0.024	0.000	0.000	0.000	0.024	0.000	0.000	0.585	0.000	0.000	0.443

Contract No.: NE/2017/07

Note:

1. For non-inert portion of C&D material, assume the density of 1 m³ general refuse is equal to 200 kg.

2. For inert portion of C&D material, assume 6 m³ per each full-filled dump truck.

3. All values are round off to the third decimal places.



Contract 2

 $Z: \label{eq:loss} 2018 \ CS00975 \ (EDO-04-2018) \ (600 \ EM\&A \ Report \ Submission \ Monthly \ EM\&A \ Report \ 2023 \ March \ 2023 \ R0747v2. \ docx \ R0747v2. \ docx \ R0747v2. \ docx \ R0747v2. \ R0747v$

Monthly Summary Waste Flow Table for 2023 Year

		Actual Qua	ntities of Inert C&I	O Materials Generat	ed Monthly			Actual Quantities	of C&D Wastes G	enerated Monthly	
Month	Total Quantity	Hard Rock and	Reused in the	Reused in other	Disposal as Public	Imported Fill	Metals	Paper / Cardboard	Plastics	Chemical Waste	Other, e.g. general
	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m ³]
Jan	0.265	0.000	0.000	0.000	0.265	0.000	0.000	0.000	0.000	0.000	0.014
Feb	0.009	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.008
Mar	0.014	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.000	0.000	0.020
Apr											
May											
June											
SUB- TOTAL	0.288	0.000	0.000	0.000	0.288	0.000	0.000	0.000	0.000	0.000	0.042
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
TOTAL	0.288	0.000	0.000	0.000	0.288	0.000	0.000	0.000	0.000	0.000	0.042

Note: Conversion to 1000m³ for general refuse is weight in 1000kg multiply by 0.002

Conversion to 1000m³ for Inert C&D is weight in 1000kg multiply by 0.0005

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material

Assume the loaded volume of a dump truck for internal inert waste transfer is 17.9 m³



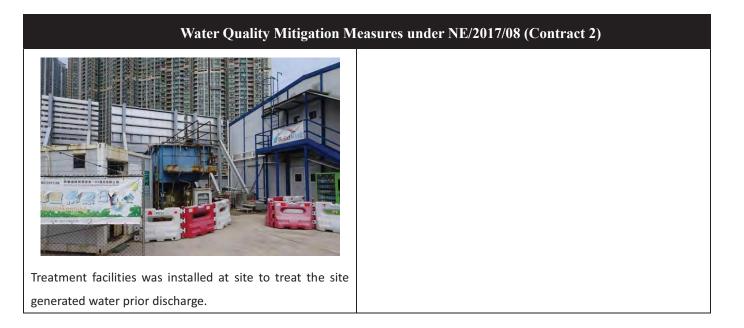
Appendix L

Implementation Record of Water Mitigation Measures in the Reporting Month

Water Quality Mitigation Measures under NE/2017/07 (Contract 1)



Treatment facilities was installed at site to treat the site generated water prior discharge.





Appendix M

Implementation Schedule for Environmental Mitigation Measures

		Objectives of the		Impler	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to be Achieved
Dust Impa	ct (Contraction Phase)					
\$5.5.5.1	Regular watering under good site practice shall be adopted. In accordance with the "Control of Open Fugitive Dust Sources" (USEPA AP-42), watering once per hour on exposed worksites and haul road is recommended to achieve dust removal efficiency of 91.7%.	Good construction site practices to control the dust impact on the nearby sensitive receivers to within the relevant criteria	All construction sites	Contractor	Construction stage	 APCO (Cap. 311); and Air Pollution Control (Construction Dust) Regulation
\$5.5.3	 The following dust suppression measures shall also be incorporated by the Contractor to control the dust nuisance throughout the construction phase: Any excavated or stockpiled dusty material shall 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 shall be wetted with water and cleared from the surface of roads; A stockpile of dusty material shall not extend beyond the pedestrian barriers, fencing or traffic cones; The load of dusty materials on a vehicle leaving a construction site shall 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 shall be provided at every discernible or designated vehicle exit point. The area where vehicle washing facilities and the exit point shall be provided 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 site that is within 30m of a vehicle entrance or exit shall be kept clear 	Good construction site practices to control the dust impact on the nearby sensitive receivers to within the relevant criteria	All construction sites	Contractor	Construction stage	 APCO (Cap. 311); and Air Pollution Control (Construction Dust) Regulation

		Objectives of the		Impler	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to be Achieved
	 of dusty materials; Surfaces where any pneumatic or power driven drilling, cutting, polishing or other mechanical breaking operation takes place shall be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities shall 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; Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting shall 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; Any skip hoist for material transport shall be totally enclosed by impervious sheeting; Exposed earth shall be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies. 					
\$5.5.5.4	 For the barging facilities at the site compound, the following good site practice is required: All road surfaces within the barging facilities shall be paved. Vehicles should pass through designated wheel wash facilities. Continuous water spray shall be installed at the loading point. 	Good construction site practices to control the dust impact on the nearby sensitive receivers to within the relevant criteria	Site compound	Contractor	Construction stage	 APCO (Cap. 311); and Air Pollution Control (Construction Dust) Regulation
S5.5.5.5	An audit and monitoring programme during the construction phase should be implemented by the Contractor to ensure that the construction dust impacts are controlled to within the HKAQO. Detailed requirements for the audit and monitoring programmes are given separately in the EM&A manual.	Monitor the 1-Hour and 24-Hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period	Selected representative dust monitoring station (Drawing no. 209506/EMA/ AIR/001)	Contractor	Construction stage	 APCO (Cap. 311); and Air Pollution Control (Construction Dust) Regulation

		Objectives of the		Impler	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to be Achieved
S6.6.4.3	 Good site practice and noise management techniques: Only well-maintained plant shall be operated on-site and the plant shall be serviced regularly during the construction programme; Machines and plant (such as trucks, cranes) that are in intermittent use shall be shut down between work periods or throttled down to a minimum; Plant known to emit noise strongly in one direction, where possible, shall be orientated so that the noise is directed away from nearby NSRs; Silencers or mufflers on construction equipment shall be properly fitted and maintained during the construction works; Mobile plant shall be sited as far away from NSRs as possible and practicable; and Material stockpiles, site office and other structures shall be effectively utilised, where practicable, to screen noise from on-site construction activities. 	To minimize construction noise impact arising from the Project on the affected NSRs	All construction sites	Contractor	Construction stage	• Annex 5, TM-EIAO
S6.6.4.5-6	Use of quiet powered mechanical equipment and working methods	Reduce noise levels of plant items	All construction sites	Contractor	Construction stage	• Annex 5, TM-EIAO
S6.6.4.7	Install site hoarding at the site boundaries between noisy construction activities and NSRs	Reduce the construction noise levels at low-level zone of NSRs through partial screening	All construction sites	Contractor	Construction stage	• Annex 5, TM-EIAO
S6.6.4.8-11	Use of temporary or movable noise barriers and full enclosure for relatively fixed plant source	Screen the noisy plant items to be used at all construction sites	For plant items listed in Table 6.7 and Appendix 6.1 of the EIA report at all construction sites	Contractor	Construction stage	• Annex 5, TM-EIAO
	Implement a noise monitoring programme under the EM&A manual	Monitor the construction noise levels at the selected representative locations	Selected representative noise monitoring stations (Drawing no. 209506/EMA/NS/001 & 209506/EMA/NS/002)	Contractor	Construction stage	• Annex 5, TM-EIAO
\$6.7.3.1	Partial enclosures along Road D9 and application of low noise surfacing material along CBL and Road D9	To minimize road traffic noise impact arising from the CBL and Road D9 on the affected NSRs	CBL and Road D9 (Drawing no. 209506/EMA/NS/003)	CEDD/ Contractor	During operational stage	• Annex 5, TM-EIAO

		Objectives of the		Impler	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to be Achieved
Water Qua	ality Impact (Contraction Phase)					
S8.6.4.3	 Marine Piling and Pile Excavation Works Marine piling and pile excavation works shall be undertaken in such a manner as to minimize re-suspension of sediments. Standard good practice measures shall be implemented, including the following requirements: All marine piling and pile excavation works shall be conducted within a floating single silt curtain. Mechanical closed grabs (with a size of5m3) shall be designed and maintained to avoid spillage and should seal tightly while being lifted. Barges shall have tight fitting seals to their bottom openings to prevent leakage of material. Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes. Loading of barges shall be controlled to prevent splashing of dredged material to the surrounding water. Barges shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation. Excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved. Aldequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action. All vessels shall be sized such that adequate clearance 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. The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site. 	To control potential impacts from marine piling and pile excavation works	During marine piling and pile excavation works	Contractor	Construction stage	TM-EIAO; and WPCO
S8.6.4.4	 Construction Site Runoff In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures, where appropriate, shall include the following: The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94. The 	Control potential water quality impacts from construction site run-off	All construction sites	Contractor	Construction stage	 TM-EIAO; and WPCO

		Objectives of the		Implen	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to be Achieved
	 detailed design of the sand/silt traps shall be undertaken by the contractor prior to the commencement of construction; Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 shall be covered with tarpaulin or similar fabric during rainstorms. Measures shall be taken to prevent the washing away of construction materials, soil, silt or debris into any marine water bodies; All vehicles and plant shall be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities shall be provided at every construction site exit where practicable. Wash-water shall 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 shall be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains; Construction solid waste, debris and rubbish on site shall be collected, handled and disposed of properly to avoid water quality impacts; All fuel tanks and storage areas shall 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; and Regular environmental audit on the construction site shall be carried out in order to prevent any malpractices. Notices shall be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the meander, wetlands and fish ponds. 					
S8.6.4.6	 Sewage from workforce Portable chemical toilets and sewage holding tanks shall be provided for handling the construction sewage generated by the workforce; A licensed contractor shall be employed to provide 	Control potential water quality impacts from sewage	All construction sites	Contractor	Construction stage	TM-EIAO; andWPCO

		Objectives of the		Implen	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to be Achieved
	appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.					
	Monitoring Implement a marine water quality monitoring programme under the EM&A on level of suspended solids (SS) / turbidity and dissolved oxygen (DO) shall be carried out.	Control potential water quality impacts from marine piling and pile excavation works	Selected monitoring stations (Drawing no. 209506/EMA/WQ/001)	Contractor	Construction station	TM-EIAO; andWPCO
\$8.7.3.2	Operational phase – Runoff from road surface Proper drainage systems with silt traps and oil interceptors shall be installed, maintained and cleaned at regular intervals.	Control potential water quality impacts from road surface runoff	CBL and Road D9	Contractor	Construction and operational stage	TM-EIAO; andWPCO
Waste Mar	nagement (Contraction Phase)					
\$9.5.2	 Good Site Practices Recommendations for good site practices: Nomination of an approved personnel to be responsible for the implementation of good site practices, arrangements for collection and effective deposal to an appropriate facility of all wastes generated at the site; Training of site personnel in proper waste management and chemical handling procedures; Provision of sufficient waste disposal points and regular collection for disposal; Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Centre; Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and Implementation of a recording system for the amount of wastes generated/recycled and disposal sites. 	Good site practices which ensure waste generated during construction phase is properly managed	All construction sites	Contractor	Construction stage	 Waste Disposal Ordinance (Cap. 54); ETWB TCW No. 19/2005

		Objectives of the		Impler	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to be Achieved
\$9.5.4	 Waste Reduction Measures Recommendations for achieving waste reduction include: On-site reuse of any material excavated as far as practicable; Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal; Collection of aluminum cans and waste paper by individual collectors during construction should be encouraged. Separately labelled recycling bins should also be provided to segregate these wastes from other general refuse by the workforce; Recycling of any unused chemicals and those with remaining functional capacity as far as possible; Prevention of the potential damage or contamination to the construction materials though proper storage and good site practices; Planning and stocking of construction materials should be made carefully to minimize amount of waste generated avoid unnecessary generation of waste; and Training on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling should be provided to workers. 	To reduce amount of waste generated during construction phase	All construction sites	Contractor	Construction stage	 Waste Disposal Ordinance (Cap. 54); ETWB TCW No. 19/2005
89.5.5-6	 Storage, Collection and Transportation of Waste Recommendations for proper storage include: Waste such as soil should be handled and stored well to ensure secure containment; Stockpiling area should be provided with covers and water spraying system to prevent materials from being washed away and to reduce wind-blown litter; and Different locations should be designated to stockpile each material to enhance reuse. With respect to the collection and transportation of waste from the construction works, the following is recommended: Remove waste in a timely manner; Employ trucks with cover or enclosed containers for waste transportations; Obtain relevant waste disposal permits from the appropriate 	To reduce the environmental implications of improper storage	All construction sites	Contractor	Construction stage	 Waste Disposal Ordinance (Cap. 54); ETWB TCW No. 19/2005

		Objectives of the		Impler	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to
	 authorities; and Disposal of waste should be done at licensed waste disposal facilities. 	Main Concerns to Address				be Achieved
\$9.5.8-11	 <u>C&D Materials</u> The following mitigation measures shall be implemented in handling the waste: 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; Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; Disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation; Standard formwork or pre-fabrication order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. 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; and 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 	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	All construction sites	Contractor	Construction stage	 Waste Disposal Ordinance (Cap. 54); ETWB TCW No. 19/2005 ETWB TCW No. 06/2010
\$9.5.13	 should be considered for such segregation and storage. Excavated Marine Sediments During transportation and disposal of the excavated marine sediments, the following measures shall be taken to minimize potential environmental impacts: Bottom opening of barges should be fitted with tight fitting 	To minimize potential impacts on water quality	All construction sites where applicable	Contractor	Construction stage	• ETWBTC (Works) No. 34/2002

		Objectives of the		Implen	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to be Achieved
	 seals to prevent leakage of material. Excess material should be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved; Monitoring of the barge loading should be conducted to ensure that loss of material does not take place during transportation; Transport barges or vessels should be equipped with automatic self-monitoring devices as specified by the DEP; and Barges should not be filled to a level that would cause the overflow of materials or sediment-laden water during loading or transportation. 					
S9.5.14-17	For those processes which generate chemical waste, the Contractor shall identify any alternatives that generate reduced quantities or even no chemical waste, or less dangerous types of chemical waste.	To ensure proper management of chemical waste	All construction sites	Contractor	Construction stage	• Waste Disposal (Chemical Waste) (General) Regulation;
	If chemical waste is produced at the construction site, the Contractor is required to register with EPD as chemical waste producers. Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows. Containers used for storage of chemical wastes shall:					Code of Practice on the Packaging, Labelling and Storage of Chemical Waste
	• 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 have been approved by EPD; and					
	• Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations.					
	 The storage area for chemical wastes shall: Be clearly labelled and used solely for the storage of chemical wastes; 					
	 Be enclosed on at least 3 sides; Have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; 					

		Objectives of the		Implen	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to be Achieved
	 Have adequate ventilation; Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste, if necessary); and Be arranged so that incompatible materials are adequately separated. Disposal of chemical waste shall: Be via a licensed waste collector; and Be to a facility licensed to receive chemical waste, such as the CWTC which also offers a chemical waste collection service and can supply the necessary storage containers; or Be to a re-user of the waste, under approval from EPD. 					De Acmeveu
\$9.5.18	 Be to a re-user of the waste, under approval noni EFD. <u>Sewage</u> An adequate number of portable toilets shall be provided for the on-site construction workers. Any waste shall be transferred to a sewage treatment works by a licensed collector. 	Proper handling of sewage from worker to avoid odour, pest and litter impacts	All construction sites	Contractor	Construction stage	• Waste Disposal Ordinance (Cap. 54)
\$9.5.19	General Refuse General refuse generated on-site shall be stored in enclosed bins or compaction units separately from construction and chemical wastes. Recycling bins shall also be provided to encourage recycling. A reputable waste collector shall be employed by the Contractor to remove general refuse from the site on a daily basis separately from the construction and chemical wastes. Burning of refuse on construction sites is prohibited by law.	Minimize production of general refuse and avoid odour, pest and litter impacts	All construction sites	Contractor	Construction stage	• Waste Disposal Ordinance (Cap. 54)
S10.7.2.4	Good Site Practices – The integrity and effectiveness of all silt curtains shall be regularly inspected. Effluent monitoring should be incorporated to make sure that the discharged effluent from construction sites meets the relevant effluent discharge guidelines.	To minimize potential impacts on water quality and protect marine communities within Junk Bay	All construction sites	Contractor	Construction stage	TM-EIAO; andWPCO
S10.7.2.5	Site runoff control – For works on land, standard site runoff control measures will be established and strictly enforced to ensure that discharge of contaminated or silt-laden runoff into marine waters is minimized.	To minimize potential impacts on water quality and protect marine communities within Junk Bay	All construction sites	Contractor	Construction stage	TM-EIAO; andWPCO
\$10.9.1.1	The marine water quality monitoring programme recommended in Chapter 8 of this EIA report and this EMIS would also serve to protect the marine communities inside Junk Bay.	To minimize potential impacts on water quality and protect marine	Selected monitoring stations (Drawing no. 209506/EMA/WQ/001)	Contractor	Construction stage	TM-EIAO; andWPCO

		Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures			Agent	Stage	and/or Standards to be Achieved
		communities within Junk Bay				
S11.6.2.2	Good Site Practices: – The integrity and effectiveness of all silt curtains should be regularly inspected. Effluent monitoring shall be incorporated to make sure that the discharged effluent from construction sites meets the relevant effluent discharge guidelines.	To minimize potential impacts on water quality and protect fishery resources	All construction sites	Contractor	Construction stage	TM-EIAO; andWPCO
\$11.6.2.3	Site runoff control - For works on land, standard site runoff control measures will be established and strictly enforced to ensure that discharge of contaminated or silt-laden runoff is minimized.	To minimize potential impacts on water quality and protect fishery resources	All construction sites	Contractor	Construction stage	TM-EIAO; andWPCO
S11.8.1.1	The marine water quality monitoring programme recommended in Chapter 8 of this EIA report and this EMIS would also serve to protect the fishery resources.	To minimize potential impacts on water quality and protect fishery resources	Selected monitoring stations (Drawing no. 209506/EMA/WQ/001)	Contractor	Construction stage	TM-EIAO; andWPCO
Landscape	and Visual	-				
\$13.8.1.2	 The following mitigation measures should be implemented in the construction stage CM1 – The construction area and contractor's temporary works areas should be minimized to avoid impacts on adjacent landscape. CM2 – Reduction of construction period to practical minimum. CM3 – Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where the soil material meets acceptable criteria and where practical. The Contract Specification shall include storage and reuse of topsoil as appropriate. CM4 – Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection stage). 	Minimize effects of landscape and visual impacts	Work site/during construction	Funded and implemented by CEDD		

		Objectives of the		Implen	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to be Achieved
	 CM5 – Trees unavoidably affected by the works shall be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. CM6 – Advance screen planting to proposed roads and associated structures. CM7 – hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone). CM8 – Screening of construction works by hoardings/noise barriers around works area in visually unobtrusive colours, to screen Works. CM10 – Ensure no run-off into water body adjacent to the Project Area. CM11 – Avoidance of excessive height and bulk of buildings and structures 					
\$13.8.1.2	OM1 – Compensatory tree planting for all felled trees shall be provided to the satisfaction of relevant Government departments. 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.	Minimize effects of landscape and visual impacts	Within the site boundary of the proposed works	Funded and implemented by CEDD. Maintained by CEDD and LCSD.	construction and operational stages	
\$13.8.1.2	 The following mitigation measures should be implemented in the operational stage: OM2 – A continuous belt of screen planting along the roads. Planting of the belt of trees shall be carried out as advance works ahead of other site formation and building works. OM3 – Maximise soft landscape of the site, where space permits, roadside berms /slope treatment works should be created. OM4 – During detailed design, refine structure layout to create a planting strips along the roads to enhance greenery. OM5 – Use appropriate (visually unobtrusive and 	Minimize effects of landscape and visual impacts	CBL and Road D9/during construction and operation	Funded and implemented by CEDD. Maintained by CEDD and LCSD.	construction and operational	

		Objectives of the	Location/ Timing	Implementation		Requirements	
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address		Agent	Stage	and/or Standards to be Achieved	
	 non-reflective) building materials and colours, and aesthetic design in built structures. OM6 – Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimizes potential negative landscape and visual impacts. Lighting units should be directional and minimize unnecessary light spill. OM7 – Avoidance of excessive height and bulk of buildings and structures 						
Landfill G					C	T 1011 C	
S14.7.5	 Precautionary measures The following guidance has been extracted from the EPD's Landfill Gas Hazard Assessment Guidance Note Guidance to ensure a robust and comprehensive set of measures to protect workers are provided. During all works, safety procedures shall be implemented to minimize the risks of fires and explosions, asphyxiation of workers (especially in confined space) and toxicity effects resulting from contact with contaminated soils and groundwater. Safety officers who are specifically trained with regard to LFG and leachate related hazards and the appropriate actions to take in adverse circumstances shall be present on all worksites throughout the works. All personnel who work on site and all visitors to the site shall be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it. Those staff who work in, or have responsibility for "at risk" areas, including all excavation workers, supervisors and engineers working within the consultation zone, shall receive appropriate training on working in areas susceptible to LFG hazards. Enhanced personal hygiene practices including washing thoroughly after working and eating only in "clean" areas shall be adopted where contact may have been made with any groundwater which is thought to be contaminated with 	Health and safety of the workers	Construction sites within 250m Consultation Zone (Drawing no. 209506/EMA/LFG/001)	Contractor	Construction stage	• Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)	

	Environmental Protection Measures/ Mitigation Measures	Objectives of the	Location/ Timing	Implem	nentation	Requirements
EIA Ref		Recommended Measures & Main Concerns to Address		Agent	Stage	and/or Standards to be Achieved
	leachate.					
	• Ground level construction plant shall be fitted with vertical exhausts at least 0.6m above ground level and with spark arrestors.					
	• During piping assembly or ducting construction, all valves/seals shall be closed immediately after installation. As construction progresses, all valves/seals should be closed as installed to prevent the migration of gases through the pipeline/conduit. All piping /ducting shall be capped at the end of each working day.					
	• Mobile offices, equipment stores, mess rooms etc. shall be located on an area which has been proven to be gas free (by survey with portable gas detectors) and ongoing monitoring shall be carried out to ensure that these areas remain gas free. Alternatively, such buildings shall be raised clear of the ground. If buildings are raised clear of the ground, the minimum, clear separation distance (as measured from the highest point on the ground surface to the underside of the					
	lowest floor joist) shall be 500mm. However, in this case, it is highly recommended that all the site offices, equipment stores and mess rooms should be located outside the 250m Consultation Zone.					
	• Smoking and naked flames shall be prohibited within confined spaces. "No Smoking" and "No Naked Flame" notices in Chinese and English shall be posted prominently around the construction site. Safety notices shall be posted warning of the potential hazards.					
	• Welding, flame-cutting or other hot works may only be carried out in confined spaces when controlled by a "permit to work" procedure, properly authorized by the Safety Office. The permit to work procedure shall set down clearly the requirements for continuous monitoring of methane,					
	carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure shall also require the presence of an appropriately qualified person who shall be responsible for reviewing the gas measurements as they are made, and who shall have executive					
	responsibility for suspending the work in the event of					

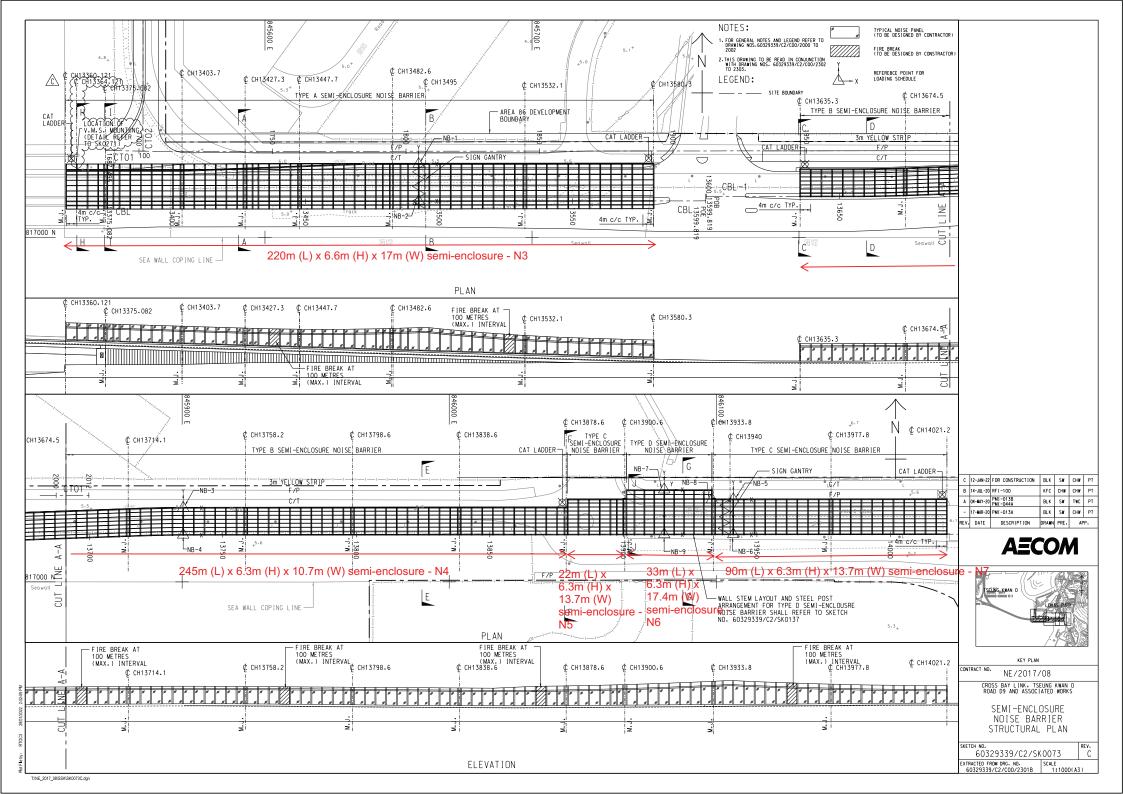
		Objectives of the		Impler	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to be Achieved
	 unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise shall be permitted to carry out hot works in confined areas. During the construction works, adequate fire extinguishers and breathing apparatus sets shall be made available on site and appropriate training given in their use. 					
S14.7.6	 Landfill gas monitoring The following monitoring shall be undertaken when construction works are carried out in confined space within the 250m Consultation Zone: The works area shall be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring requirements and procedures specified in Paragraphs 8.23 to 8.28 of EPD's Guidance Note shall be followed. The monitoring frequency and areas to be monitored shall be set down prior to commencement of the works. Depending on the results of the measurements, actions required will vary. As a minimum these shall encompass the actions specified in Table 14.6 of the EIA report. When portable monitoring equipment is used, the frequency and areas to be monitored should be set down prior to commencement of the works either by the Safety Officer or by an appropriately qualified person. All measurements shall be made with the monitoring tube located not more than 10mm from the surface. A standard form, detailing the location, time of monitoring and equipment used together with the gas concentrations measured, shall be used when undertaking manual monitoring to ensure that all relevant data are recorded. If methane (flammable gas) or carbon dioxide concentrations are in excess of the trigger levels or that of oxygen is below the level specified in the Emergency Management in the 	Health and safety of the workers	Confined space of construction sites within 250m Consultation Zone	Contractor	Construction stage	• Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)
S14.7.8-9	following section, then evacuation shall be initiated. Emergency management	Health and safety of the	Confined space of	Contractor	Construction	• Landfill Gas
	In the event of the trigger levels specified in Table 14.6 of the EIA report being exceeded, a person, such as the Safety	workers	construction sites within 250m Consultation Zone		stage	Hazard Assessment

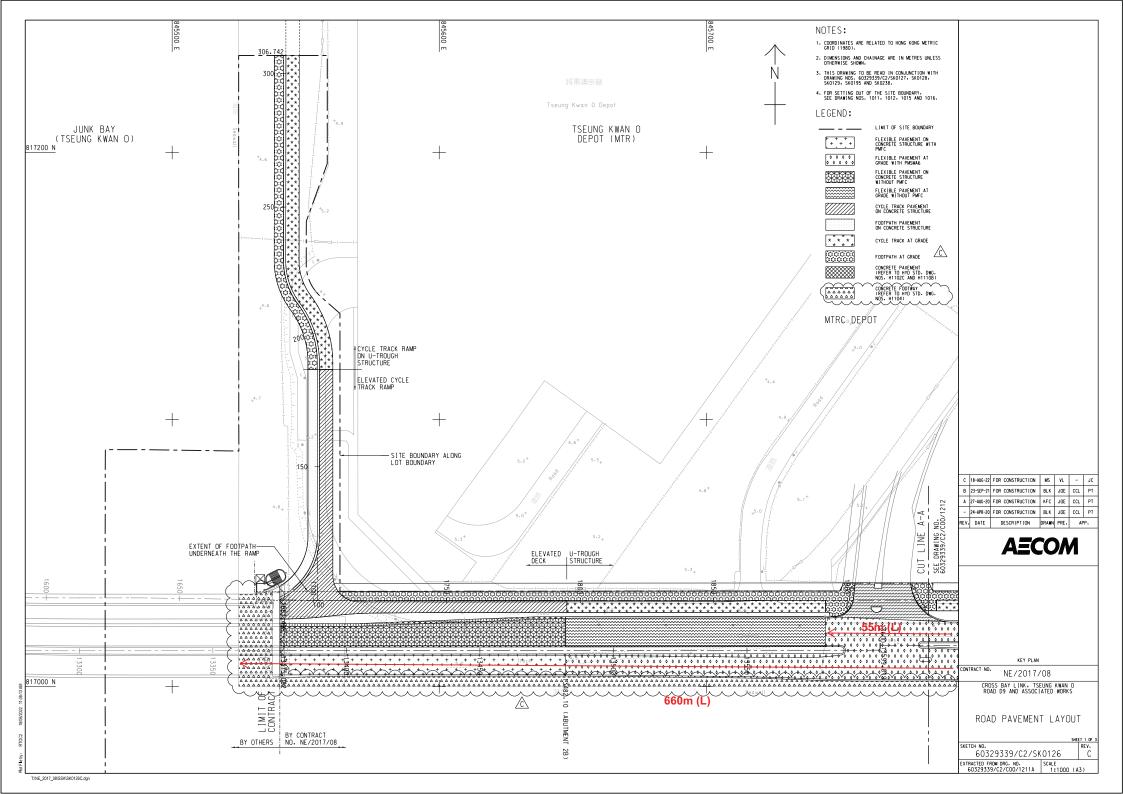
		Objectives of the		Implen	nentation	Requirements
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	and/or Standards to be Achieved
	Officer, shall be nominated, with deputies, to be responsible for dealing with any emergency which may occur due to LFG.					Guidance Note (EPD/TR8/97)
	In an emergency situation the nominated person, or his deputies, shall have the necessary authority and shall ensure that the confined space is evacuated and the necessary works implemented for reducing the concentrations of gas.					
S14.7.16	 Protection measures - Operational phase An assumed presence of landfill gas shall be adopted at all times by maintenance workers; all maintenance workers inspecting any manhole shall be fully trained in the issue of LFG hazard; any manhole which is large enough to permit to access to personnel shall be subject to entry safety procedure; Code of Practice on Safety and Health at Work in Confined Spaces shall be followed to ensures compliance with the Factories and Industrial Undertakings (Confined Spaces) Regulations of the Factories and Industrial Undertakings Ordinance; a strictly regulated "work permit procedure" shall be implemented and the relevant safety procedures must be rigidly followed; and Adequate communication with maintenance staff shall be maintained with respect to LFG. 	Health and safety of the workers	Utility maintenance areas within 250m Consultation Zone/during operational period	Utility companies	Operational stage	 Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97); and Code of Practice on Safety and Health at Work in Confined Space
S14.7.17	General recommended precautionary & protection measures – Operational phase LGF surveillance exercise shall be undertaken by the utility companies at the utility manholes/inspection chambers. The surveillance exercise shall be undertaken for the duration of the site occupancy, or until such time that EPD agree that surveillance is no longer required and this shall be based on all the available monitoring data for methane, carbon dioxide and oxygen.	Health and safety of the workers	Utility maintenance areas within 250m Consultation Zone/during operational period	Utility companies	Operational stage	 Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97); and Code of Practice on Safety and Health at Work in Confined Space

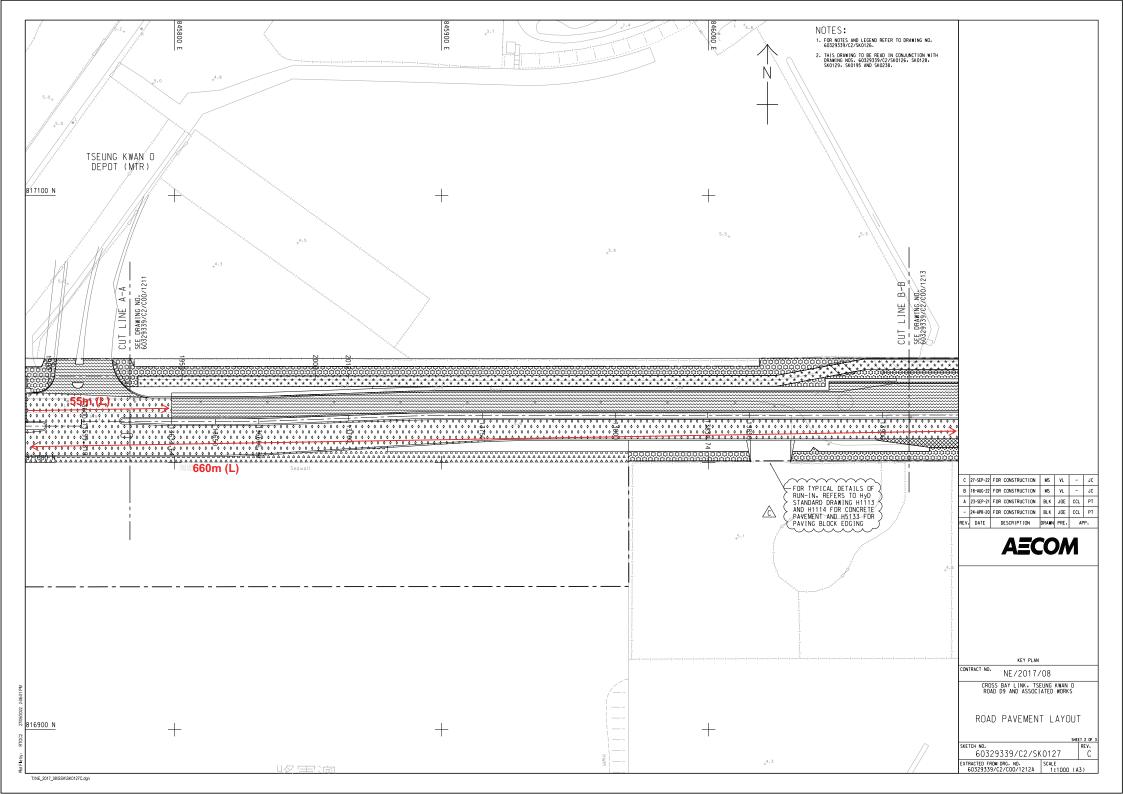


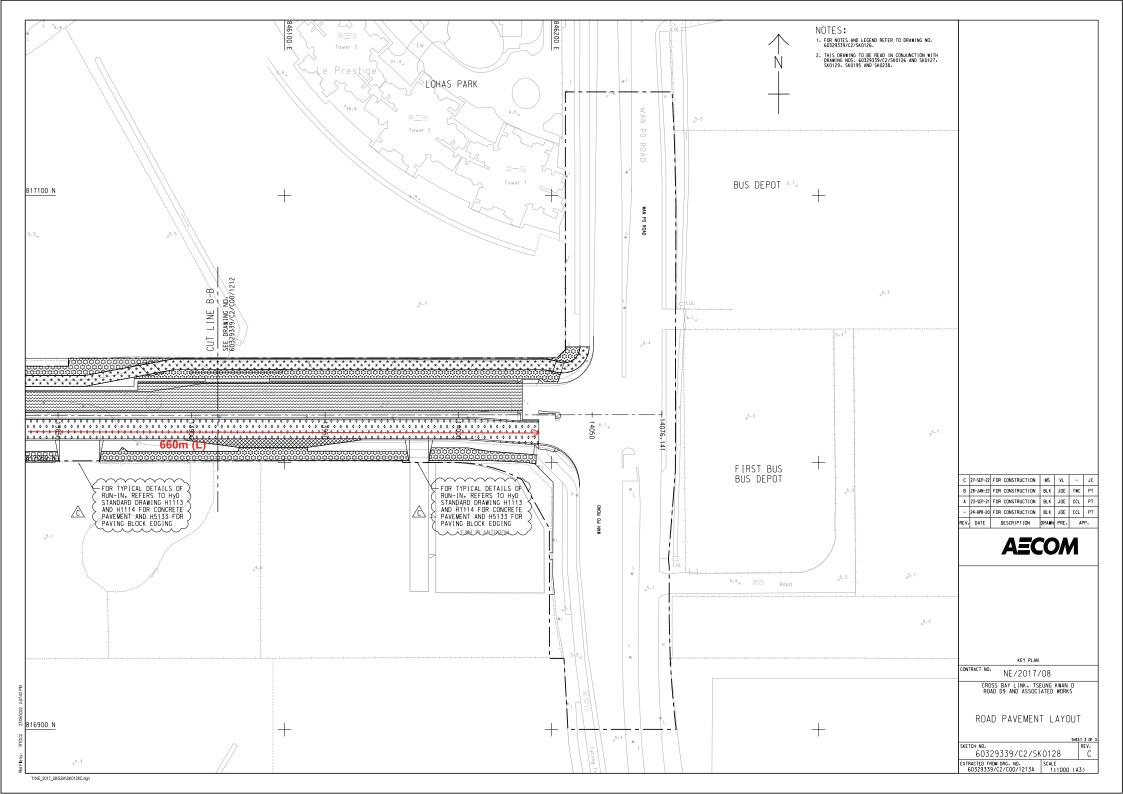
Appendix O

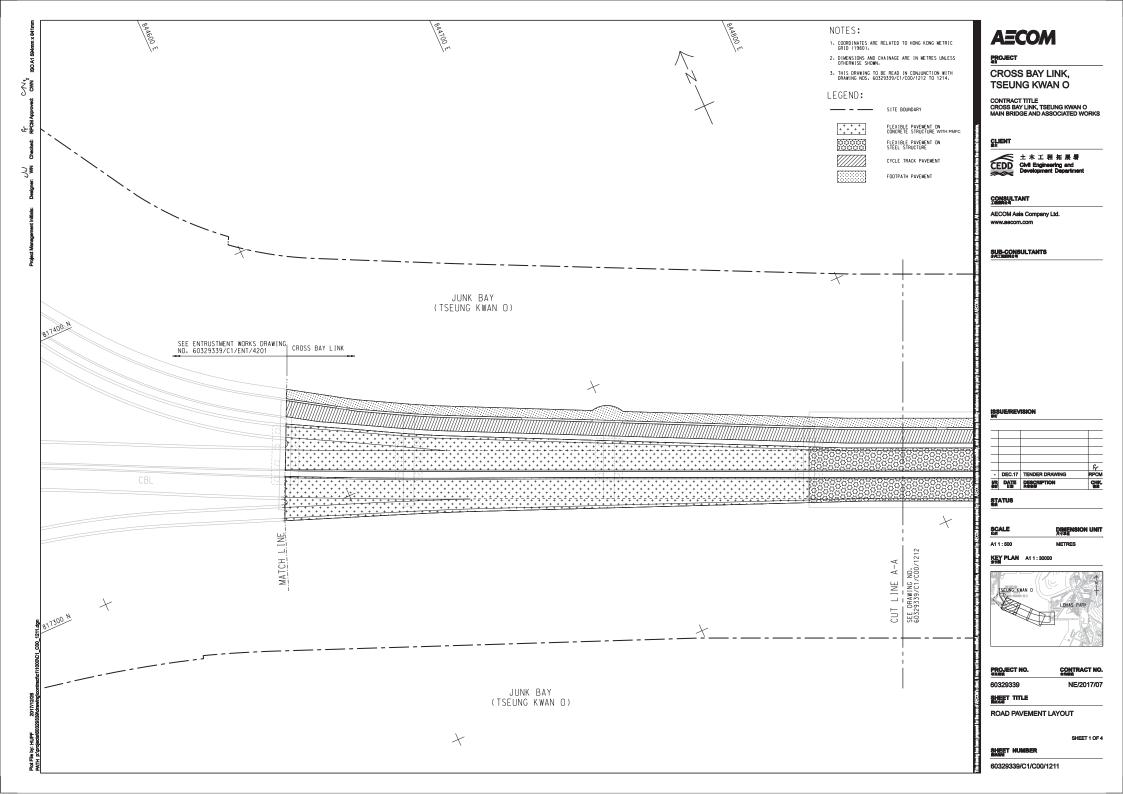
As-built Drawing of the Low Noise Surfacing and Semi-Enclosure Noise Barrier

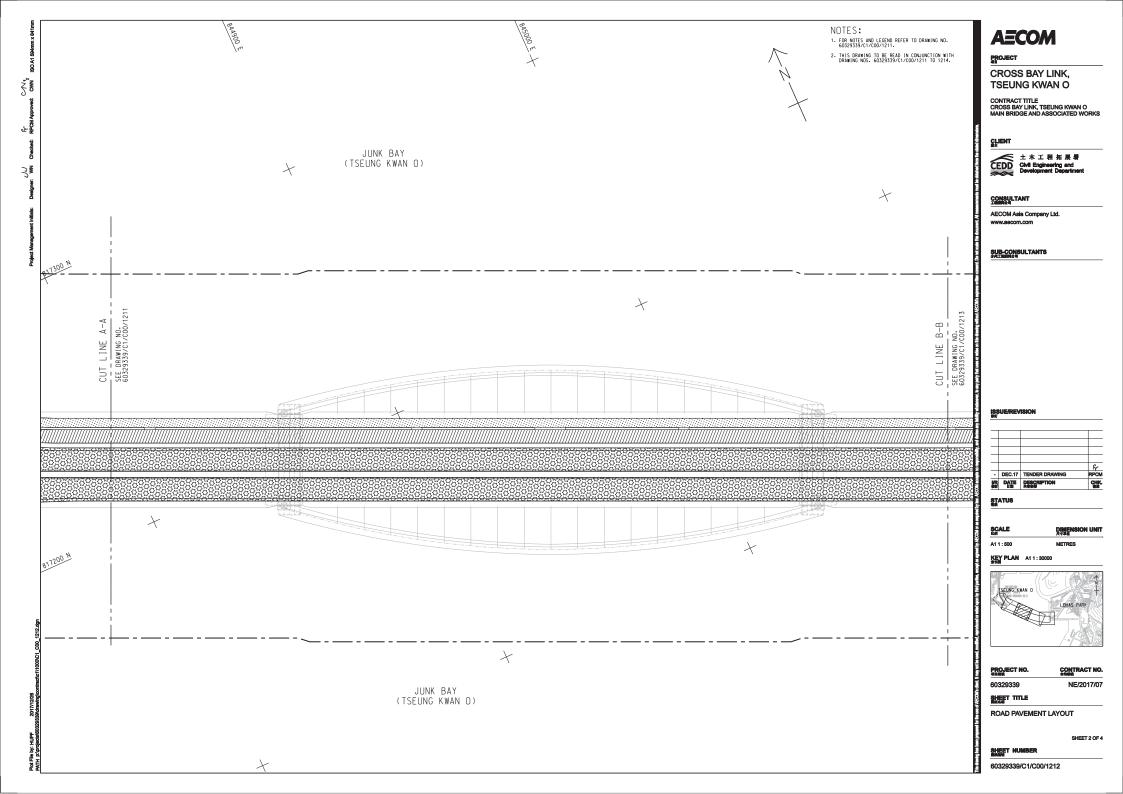


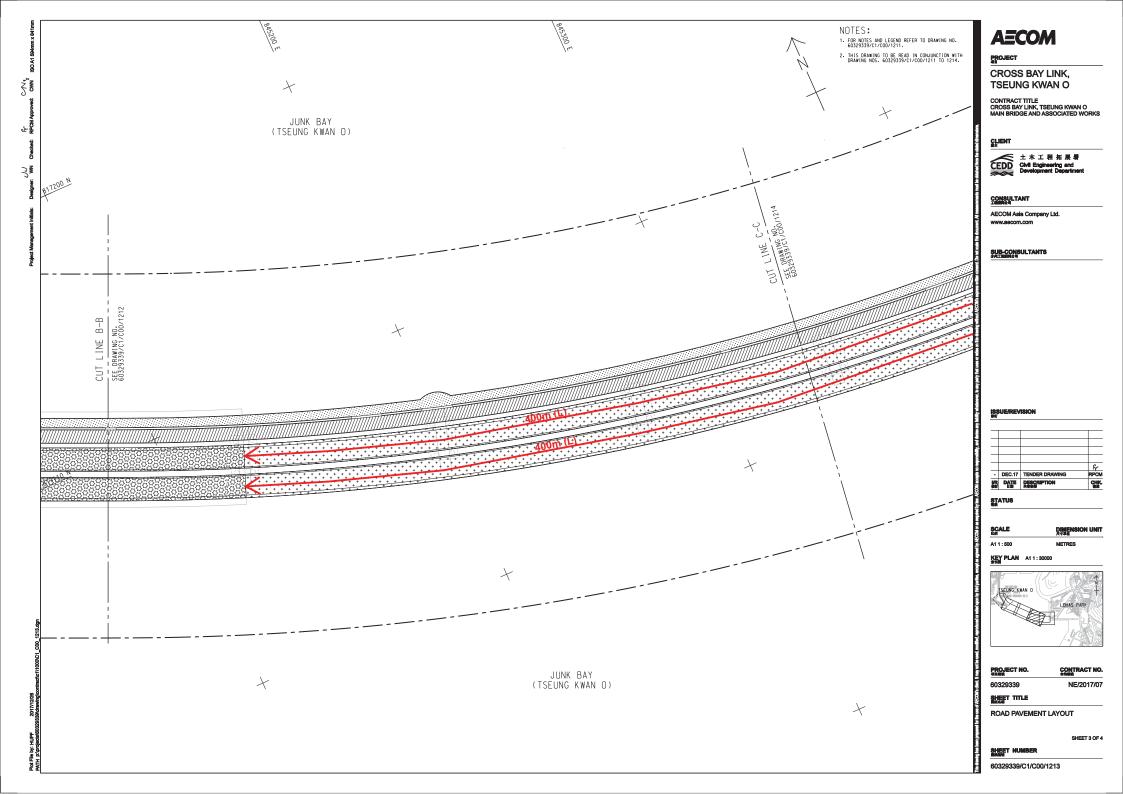


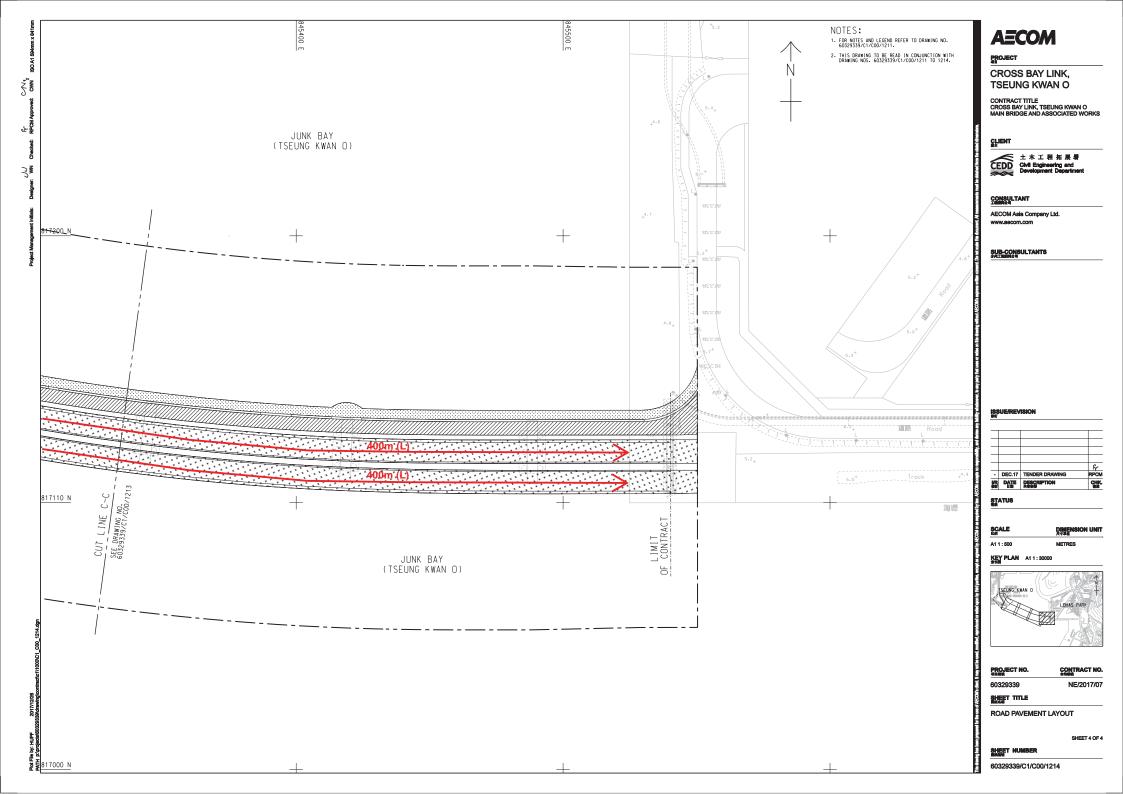


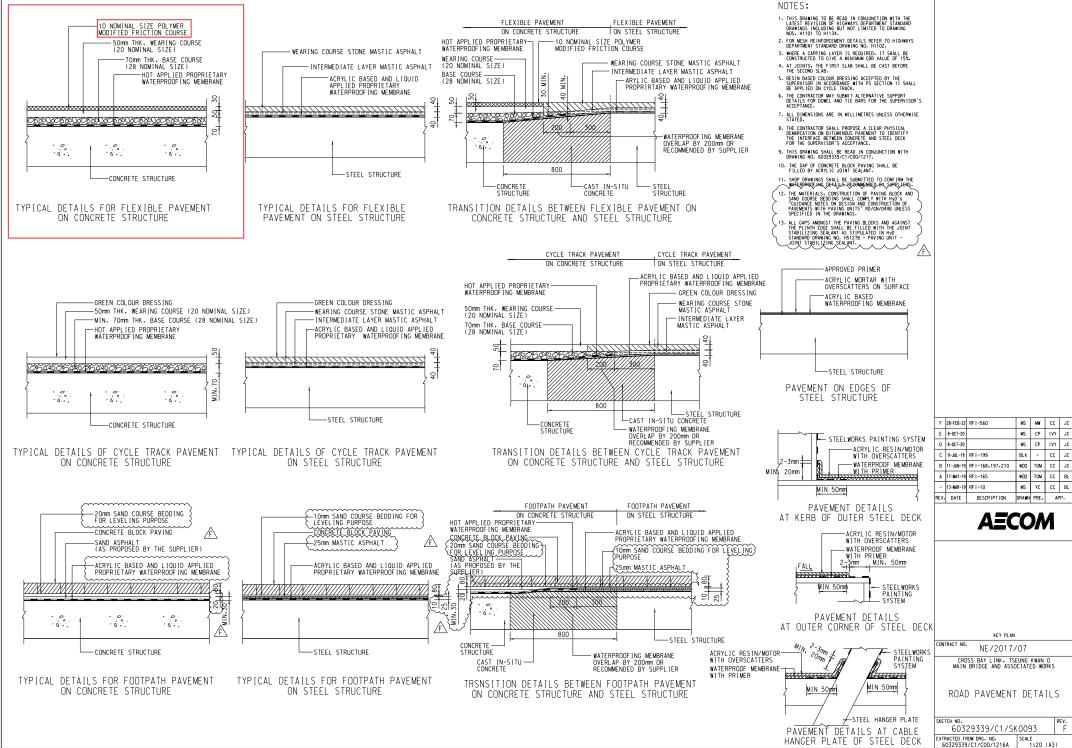












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