

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 – DECEMBER 2021

PREPARED FOR CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT (CEDD)

Date	Reference No.	Prepared By	Certified By
12 January 2022	TCS00975/18/600/R0597v2	Http	Am

Martin Li (Environmental Consultant)

Tam Tak Wing (Environmental Team Leader)

Version	Date	Remarks
1	10 January 2022	First Submission
2	12 January 2022	Amended against IEC's comments



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



Our ref: PL-202201016

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

12 January 2022

Dear Sir,

Contract No. NE/2017/07 & NE/2017/08 Cross Bay Link, Tseung Kwan O Monthly EM&A Report for December 2021

I refer to the email of the ET concerning the Monthly EM&A Report for December 2021 (Version 2) with Ref. No. TCS00975/18/600/R0597v2. 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 **37th** Monthly EM&A report presenting the monitoring results and inspection findings for the reporting period from *1* to *31 December 2021* (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:-
 - Predrilling, Pilling Work, Precast Segment Fabrication, Precast Pier Fabrication, Precast Shell Installation at Portion I
 - E&M Work and External Work at Portion V Plant Room Building
 - Welding work of parapet base plate on steel bridge
 - Waterproofing works for division area and footpath area for steel bridge
- ES07 The major construction activities of Contract 2 (Contract No. NE/2017/08) undertaken in this Reporting Period are:-
 - UU Diversion
 - Road Work along Wan Po Road
 - Excavation and Demolition of existing wave wall at Portion I
 - Monitoring and Instrumentation works
 - RC construction for U-trough at Portion III, parapet at elevated deck
 - RC construction for lift shaft and stair case
 - TCSS Cross road ducts installation at Wan Po Road
 - Modification of Type 1 Wave wall
 - Drainage work at Portion I, III
 - RC Construction of foundation at Wan O Road
 - Deck construction at cycle track ramp



- Utilities installation along At Grade Road
- SENB installation at At-Grade Road, Portion III, U-trough

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	Sessions	
Air Quality	1-Hour TSP	30	
All Quality	24-Hr TSP	12	
	Leq (30min		12
Construction Noise	Leq (5min) Evening ^(Note 1)		6
	Leq (5min)	3	
Water Quality	Marine Water Sampling ^{(Note 2) (Note 3)}		0
	Contract 1	ET Regular Environmental Site Inspection	5
Inspection / Audit		Joint site audit with Project Consultant and IEC	1
Inspection / Audit		ET Regular Environmental Site Inspection	5
	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 monitoring exceedance was recorded in this Reporting Period. For construction noise monitoring, one (1) nighttime noise action level exceedance due to one (1) noise complaint received, two (2) evening and three (3) nighttime noise monitoring limit level exceedances were 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

Environmentel	Monitoring	Action		Event & Action	
Issues	nental Monitoring Action Limit Parameters Level Level		Investigation Results	Corrective Actions	
Air Quality	1-Hour TSP	0	0		
	24-Hr TSP	0	0		
Construction Noise	Leq _{30min} Daytime	0	0		
	Leq _{5min} Evening	0	2	Not project related	NA
	Leq _{5min} Night	1	3	Not project related	NA
Water Quality (Marine Water)	DO	0	0		
	Turbidity	0	0		
	SS	0	0		

ENVIRONMENTAL COMPLAINT

ES10 In the reporting period, one (1) environmental complaints was 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	Enviro	Related with the		
Period	Contract	Frequency	Cumulative	Complaint Nature	Works Contract(s)
1 - 31	1	1	25	Noise	Not related
December 2021	2	0	15	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			Environmental Summons Statistics			
Period	Contract	Frequency	Cumulative	Complaint Nature	Works Contract(s)	
1 – 31	1	0	0	NA	NA	
December 2021	2	0	0	NA	NA	

Table ES-8 Summary Environmental Prosecutions Records in the Report	orting Period
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Reporting	Contract	Environ	mental Prosecu	tion Statistics	Related with the
Period	Contract	Frequency	Cumulative	Complaint Nature	Works Contract(s)
1 – 31	1	0	0	NA	NA
December 2021	2	0	0	NA	NA

REPORTING CHANGE

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

SITE INSPECTION BY EXTERNAL PARTIES

ES13 No site inspection was undertaken by EPD and AFCD within the Reporting Period.

FUTURE KEY ISSUES

- ES14 Due to the coming month is dry and windy season for Hong Kong, the Contractor was reminded that all the works to undertaking must be fulfill environmental statutory requirement, especially construction dust come from working sites of the Project.
- ES15 Construction noise would be the key environmental issue as Lohas Park Phase 4 & 6 were already available for resident occupation. The 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 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.
- 1.1.6 This is the **37th** Monthly EM&A report presenting the monitoring results and inspection findings for the reporting period from *1* to *31 December 2021* (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 1	Introduction
Section 2	Project Organization and Construction Progress
Section 3	Summary of Impact Monitoring Requirements
Section 4	Air Quality Monitoring

Section 5	Construction 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:-
 - Predrilling, Pilling Work, Precast Segment Fabrication, Precast Pier Fabrication, Precast Shell Installation at Portion I
 - E&M Work and External Work at Portion V Plant Room Building
 - Welding work of parapet base plate on steel bridge
 - Waterproofing works for division area and footpath area for steel bridge

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

2.2.3 The major construction activities of Contract 2 undertaken in this Reporting Period are:-

• UU Diversion

- Road Work along Wan Po Road
- Excavation and Demolition of existing wave wall at Portion I
- Monitoring and Instrumentation works
- RC construction for U-trough at Portion III, parapet at elevated deck
- RC construction for lift shaft and stair case
- TCSS Cross road ducts installation at Wan Po Road
- Modification of Type 1 Wave wall
- Drainage work at Portion I, III
- RC Construction of foundation at Wan O Road
- Deck construction at cycle track ramp
- Utilities installation along At Grade Road
- SENB installation at At-Grade Road, Portion III, U-trough

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
1.11		no later than 1 month prior to the commencement of construction of the Project	
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	8
2.5	Waste Management Plan (WMP)	No later than 1 month before commencement of construction of the Project	
2.6	Landscape Mitigation 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	 QLGHA of the Project was submitted to EPD on 1 November 2018

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



		License/Permit Status					
Item	Description	Permit no./	Valid 1	Period			
Item	Description	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	BillingAccountforDisposalofConstruction Waste	7031412	24 Jul 2018	N/A			
		GW-RE1202-21	2 Dec 2021	31 Dec 2021	Expired on 31 Dec 2021		
5	Construction Noise Permit	GW-RE1056-21	26 Oct 2021	31 Dec 2021	Expired on 31 Dec 2021		
		GW-RE1282-21	31 Dec 2021	30 Mar 2022	Valid until 30 Mar 2022		

Remark: Evening work was scheduled on 10 - 16 and 24 - 30 December 2021 for Contract 1

		License/Permit Status				
Item	Description	Permit no./	Valid	Period	Status	
ium	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		
5	Construction Noise Permit	GW-RE1208-21	3 Dec 2021	31 Mar 2022	Valid until 31 Mar 2022	

Table 2-3 Status of Environmental Licenses an	d Permits of the Project Works (Contract 2)
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Remark: No evening work and night work was carried out for Contract 2

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 5	uninary of Ewi&A 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 1-Hour TSP air quality and construction noise monitoring was commenced in February 2021 regarding the handover of residential units to purchases for LP6. However, the installation of High Volume Sampler (HVS) for 24-Hour TSP is still pending approval from LP6 property management team. Therefore, an interim alternative monitoring location AM2a was proposed near the LP 6 for the 24-Hour TSP monitoring during the request of HVS installation is being reviewed by LP6 Property Management Office.
- 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	Reportir	ng Period						

Location ID	Monitoring Parameter	Location
AM2	1-Hour TSP Air Quality	Lohas Park Phase 6
AM2a	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

AUES

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: 1941)
1- hour TSP	Portable Dust Meter	Laser Dust Monitor Sibata LD-3B Laser Dust Monitor (S/N: 3Y6503 & 366410)

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*.

 Table 3-7
 Construction Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	Rion NL-52 (S/N:00809405)
Calibrator	Rion NC-75 (S/N:34680623)
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.

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	YSI ProDSS Digital Sampling System Water Quality Meter		
pH meter			
Turbidimeter			
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 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

Parameter	ALS Method Code	In-house Method Reference (1)	Reporting Limit
Total Suspended Solids EA025		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 Level (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	
AM2a	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					

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



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

Monitoring Location	Action Level	Limit Level	
	Time Period: 0700-1900 hours on 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	9.3	OR 130% of upstream control	
CC2	9.0	station at the same tide of the same day	9.2	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	Depth Average of S	Surface and Mid-depth		Bottom	
Location	Location Action 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 T	urbidity (NTU	()	
Location	Actio	on Level	Limit 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 As notified that Lohas Park Package 6 was available for resident occupation in late January 2021, air quality monitoring at designated monitoring location AM2 was therefore commenced in February 2021. Since the installation of High Volume Sampler for 24-Hour TSP monitoring is still under review by Property Management Team of Lohas Park Package 6, an interim alternative monitoring location AM2a was proposed for the 24-Hour TSP monitoring and was commenced on 13 July 2021 upon agreed by ER and IEC.
- 4.1.2 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 AM2a and AM5. The air quality monitoring schedule is presented in *Appendix F*.
- 4.1.3 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

	C	ny mpace m	8			
AM5		AM4				
24-Hr TSP (µg/m ³)		1-Hour TSP (µg/m ³)				
Date	Meas. Result	Date	DateStart Time1st Meas.2nd Meas.3rd Meas.			
3-Dec-21	78	4-Dec-21	9:42	83	86	81
9-Dec-21	70	10-Dec-21	14:12	87	85	90
15-Dec-21	83	16-Dec-21	14:35	80	86	93
21-Dec-21	50	22-Dec-21	9:27	73	79	74
24-Dec-21	78	28-Dec-21	9:33	92	89	80
30-Dec-21	43					
Average (Range)	67 (43 - 83)	Average (Range)			84 (73 - 93)	

Table 4-2	1-Hour TSP Air Quality Impact Monitoring Results for AM2
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AN	12a	AM2				
24-Hr TS	$P(\mu g/m^3)$		1-H	lour TSP (µg/	[/] m ³)	
Date	Meas. Result	Date	Start Time	1 st Meas.	2 nd Meas.	3 rd Meas.
3-Dec-21	103	4-Dec-21	9:33	80	81	78
9-Dec-21	101	10-Dec-21	13:21	82	86	83
15-Dec-21	139	16-Dec-21	14:54	77	81	84
21-Dec-21	29	22-Dec-21	9:34	80	84	78
24-Dec-21	88	28-Dec-21	9:38	97	88	94
30-Dec-21	116			-		
Average (Range)	96 (29 - 139)	Aver (Rar	-		84 (77 - 97)	

- 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 12 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

Date	T :	Measureme	ent Result (dB(A))
	Time	Leq30min	Façade Correction
10-Dec-21	15:37	67.1	NA
16-Dec-21	15:46	55.7	NA
22-Dec-21	10:22	56.7	NA
28-Dec-21	10:48	59.6	NA

	Table 5-2	Daytime Construction	Noise Impact Monitoring Results at CNMS-2
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Date	T*	Measureme	ent Result (dB(A))
	Time	L _{eq30min}	Façade Correction
10-Dec-21	14:14	74.6	NA
16-Dec-21	16:18	66.3	NA
22-Dec-21	10:56	63.8	NA
28-Dec-21	9:39	62.9	NA

Table 5-3	Daytime Construction Noise Impact Moni	toring Results at CNMS-5

Date	Time	Measureme	ent Result (dB(A))
	Time	Leq30min Façade Correctio	
10-Dec-21	13:23	62.4	NA
16-Dec-21	14:57	63.9	NA
22-Dec-21	9:36	63.8	NA
28-Dec-21	10:12	62.0	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.
- 5.2.3 In the reporting period, evening marine work was scheduled by Contractor of Contract 1 at Portion II from 10 16 and 24 30 December 2021. 6 session of weekly evening 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 evening noise monitoring results are summarized in *Table 5-4* to *Table 5-6*. The detailed noise monitoring data are presented in *Appendix H*.

 Table 5-4
 Evening Construction Noise Impact Monitoring Results at CNMS-1

Date	Start Time	1st Leq (5min)	2nd Leq (5min)	3rd Leq (5min)
Date	Start Time	Leq, dB(A)	Leq, dB(A)	Leq, dB(A)
14-Dec-21	20:40	48.9	50.0	51.3
30-Dec-21	20:06	49.2	50.0	49.9

Table 5-5 Evening Construction Noise Impact Monitoring Results at CNMS-2

Date	Start Time	1st Leq (5min)	2nd Leq (5min)	3rd Leq (5min)
Date	Start Time	Leq, dB(A)	Leq, dB(A)	Leq, dB(A)
14-Dec-21	21:06	52.4	44.0	46.9
30-Dec-21	20:29	44.1	45.2	44.5

Table 5-6	Evening Construction	Noise Impact Monitorin	g Results at CNMS-5
I abie e o	Litering Construction	i tonse impuee moment	

Date	Start Time	1st Leq (5min)	2nd Leq (5min)	3rd Leq (5min)
Date	Start Time	Leq, dB(A)	Leq, dB(A)	Leq, dB(A)
14-Dec-21	19:52	58.0	58.4	59.1
30-Dec-21	19:39	58.8	60.0	59.0

- 5.2.4 According to *Table 5-4* to *Table 5-6*, **two** (2) sessions of evening noise monitoring results triggered the Limit Level (55 dB(A)) in the reporting period and investigations were undertaken by ET accordingly.
- 5.2.5 For the evening noise monitoring exceedances recorded at CNMS-5 on 14 and 30 December 2021, since the monitoring result obtained were within the range of evening noise obtained from baseline monitoring and external noise source such as traffic noise was noted during the course of monitoring, it was considered the exceedances recorded were unlikely due to the Project.
- 5.2.6 In the reporting period, nighttime marine work was scheduled by Contractor of Contract 1 at Portion II from 10 16 and 24 30 December 2021. **3** session of weekly nighttime 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 nighttime noise monitoring results are summarized in *Table 5-7* to *Table 5-9*. The detailed noise monitoring data are presented in *Appendix H*.

Table 5-7Night time Construction Noise Impact Monitoring Results at CNMS-1

Date	Start Time	1st Leq (5min)	2nd Leq (5min)	3rd Leq (5min)
Date	Start Time	Leq, dB(A)	Leq, dB(A)	Leq, dB(A)
14-Dec-21	23:24	49.2	50.0	49.6

Table 5-8 Night time Construction Noise Impact Monitoring Results at CNMS-2

			1	
Date	Start Time	1st Leq (5min)	2nd Leq (5min)	3rd Leq (5min)
	Start Time	Leq, dB(A)	Leq, dB(A)	Leq, dB(A)
14-Dec-21	23:44	47.8	48.5	47.2

 Table 5-9
 Night time Construction Noise Impact Monitoring Results at CNMS-5

	8		1 0	
Data	Start Time	1st Leq (5min)	2nd Leq (5min)	3rd Leq (5min)
Date	Start Time	Leq, dB(A)	Leq, dB(A)	Leq, dB(A)
14-Dec-21	23:02	56.2	56.3	55.8

- 5.2.7 According to *Table 5-7* to *Table 5-9*, three (3) sessions of nighttime noise monitoring results triggered the Limit Level (40 dB(A)) in the reporting period and investigations were undertaken by ET accordingly.
- 5.2.8 For the nighttime noise monitoring exceedances recorded at CNMS-1, CNMS-2 and CNMS-5 on 14 December 2021, since the marine work at Junk Bay were ceased before the night time noise monitoring event, the exceedances recorded were considered unlikely due to the Project.

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*.

	Cont	tract 1	Contract 2	
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location
Total C&D Materials (Inert) ('000m ³)	0.006	-	1.837	-
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	1.712	TKO 137
Imported Fill ('000m ³)	0	-	0.125	-

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

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

	Cont	ract 1	Contract 2	
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location
Recycled Metal ('000kg)	0	-	0	-
Recycled Paper / Cardboard Packing ('000kg)	0.154	Collected by paper recycling company	0	-
Recycled Plastic ('000kg)	0	-	0	-
Chemical Wastes ('000kg)	0	-	0	-
General Refuses ('000m ³)	0.181	NENT	0.056	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 *3*, *10*, *16*, *22 & 29 December 2021*. Moreover, the Independent Environmental Checker (IEC) monthly site inspection was conducted on *10 December 2021*.
- 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
3 December 2021	No adverse environmental issue was observed.	• NA
10 December 2021	• No adverse environmental issue was observed.	• NA
16 December 2021	 <u>Observation:</u> Drip tray should be provided for chemical storage on-site. (Works Area A) 	• Chemical storage on-site was removed.
22 December 2021	• No adverse environmental issue was observed.	• NA
29 December 2021	• No adverse environmental issue was observed.	• NA

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

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 *3*, *10*, *16*, *22 & 29 December 2021*. Moreover, the Independent Environmental Checker (IEC) monthly site inspection was conducted on *10 December 2021*.
- 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**.

Table 8-2	Site Observations of the Contract 2 (Contract No. NE/2017/08)
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Date	Findings / Deficiencies	Follow-Up Status		
3 December 2021	 <u>Observation:</u> Drip tray should be provided for chemical storage on-site. (Portion VI) 		Chemical container was removed.	
10 December 2021	 <u>Observation:</u> Proper dust mitigation measures should be provided for stockpile of loose materials storage on-site. (Portion VI near XYZ) 	•	Dusty stockpile was removed	
	• Hole under the drip tray should be sealed properly to prevent leakage. (Portion III)	•]	Leakage hole was sealed	



Date	Findings / Deficiencies	Follow-Up Status
16 December 2021	• No adverse environmental issue was observed.	• NA
22 December 2021	• No adverse environmental issue was observed.	• NA
29 December 2021	• No adverse environmental issue was observed.	• NA

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 <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, landfill gas monitoring was conducted at the zone Wan O Road which excavation work of Contract 2 was carried out. A Crowcon gas detector was used for the landfill gas monitoring and the valid calibration certificate is presented in **Appendix G**.
- 9.3.2 There were a total of 25 days monitoring were carried by the Safety Officer or an approved and qualified persons. The results of landfill gas measurement are summarized in *Table 9-2*. Moreover, database of monitoring result is attached in Appendix H.

Landfill Gas	A attar I anal	T. 4 T 1	Detectable at LMR		
Parameter	Action Level	Limit Level	Min	Max	
Methane	>10% LEL (>0.5% v/v)	>20% LEL (>1% v/v)	0.0%	0.0%	
Oxygen	<19%	<18%	20.6%	20.8%	
Carbon Dioxide	>0.5%	>1.5%	0.0%	0.0%	

Table 9-2Summary of Landfill Gas Measurement Results

9.3.3 The measurement results shown that slightly methane and Carbon Dioxide concentration were detected, oxygen concentration measured was over 19.0 %. No exceedance was triggered and therefore no corrective action was required accordingly.

10. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

10.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

10.1.1 In the Reporting Period, one (1) environmental complaints was received for the Project. Besides, no summons and prosecution under the EM&A Programme was lodged for the project.

Complaint received on 29 December 2021

- 10.1.2 A complaint was received by CEDD regarding the high frequency noise generated from the Project around 22:00 00:30 every day. The complainant did not specified the concerned location.
- 10.1.3 As advised by the Contractor of Contract 1 Contract No. NE/2017/07 (CRBC), all the evening marine work carried out in December 2021 were finished by 22:00 each day. No construction work and no operation of PME was carried out during 22:00 00:30 in December 2021.
- 10.1.4 The Investigation conducted by the ET revealed that the complaint is not related to the Project since no construction work was carried out during the complaint period.
- 10.1.5 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

Reporting	Contract	Enviro	Related with the		
Period	Contract	Frequency	Cumulative	Complaint Nature	Works Contract(s)
1 – 31	1	1	25	Noise	Not related
December 2021	2	0	15	NA	NA

1 adie 10-2 Staustical Summary of Environmental Summor	Table 10-2	Statistical Summary of Environmental Summons
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Reporting	Contract	Environmental Summons Statistics				
Period	Contract	Frequency	Cumulative	Summons Nature		
1 – 31	1	0	0	NA		
December 2021	2	0	0	NA		

Table 10-3 Statistical Summary of Environmental Prosecution

Reporting Period	Contract	Environmental Prosecution Statistics		
		Frequency	Cumulative	Prosecution Nature
1 – 31	1	0	0	NA
December 2021	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.			
	 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.Mosquito control is performed to prevent mosquito breeding on site.			

 Table 11-1
 Environmental Mitigation Measures in the Reporting Month

11.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

11.2.1 Tentative construction activities to be undertaken in January 2022 should be included:-

<u>Contract 1</u>

- Fabrication of precast segment and Pier construction at portion 1
- Top Tension and Transverse Tension, Bottom Tension and External Tension; Construction of long stitching and concrete structure above deck; Welding of L3 parapet base plate on steel bridge; Waterproofing works for division area and footpath area at Portion II, III IV and VI.
- E&M installation work and external work at Portion V

Contract 2

- UU Diversion
- Excavation and Demolition of existing wave wall at Portion I
- RC construction for U-trough at Portion III, parapet at elevated deck
- TCSS Cross road ducts installation at Wan Po Road
- Drainage work at Wan O Road and Wan Po Road
- Deck construction at cycle track ramp
- Directional sign at Wan Po Road
- Monitoring and Instrumentation works
- RC construction for lift shaft and stair case
- Modification of Type 1 Wave wall
- RC Construction of foundation at Wan O Road
- Utilities installation along At Grade Road
- SENB installation at At-Grade Road, Portion III, U-trough

11.3 IMPACT FORECAST

- 11.3.1 Potential environmental impacts arising from the works of the Contracts 1 and Contract 2 include:
 - Construction waste
 - Air quality
 - Construction noise
 - Water quality
- 11.3.2 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 December 2021*.
- 12.1.2 In the Reporting Period, one (1) action level exceedance for construction noise was recorded due to one (1) noise complaint was recorded. Two (2) session of evening construction noise and three (3) session of night time monitoring results triggered the Limit Level. Investigations were undertaken by ET. The daytime construction noise action level exceedances, and the evening and night time construction noise limit level exceedances triggered are unlikely due to the Project.
- 12.1.3 In this Reporting Period, no 1-Hour TSP or 24-Hr TSP air quality monitoring and no noise exceedance was recorded. No NOE or the associated corrective actions were therefore issued.
- 12.1.4 In the Reporting Period, one (1) environmental complaints were recorded for the Project with respect to the noise nuisance arising from the Project. Investigations for the noise complaints were undertaken by ET and indicated that the noise complaint was not Project related since no construction work was carried out at the complaint period.

12.2 RECOMMENDATIONS

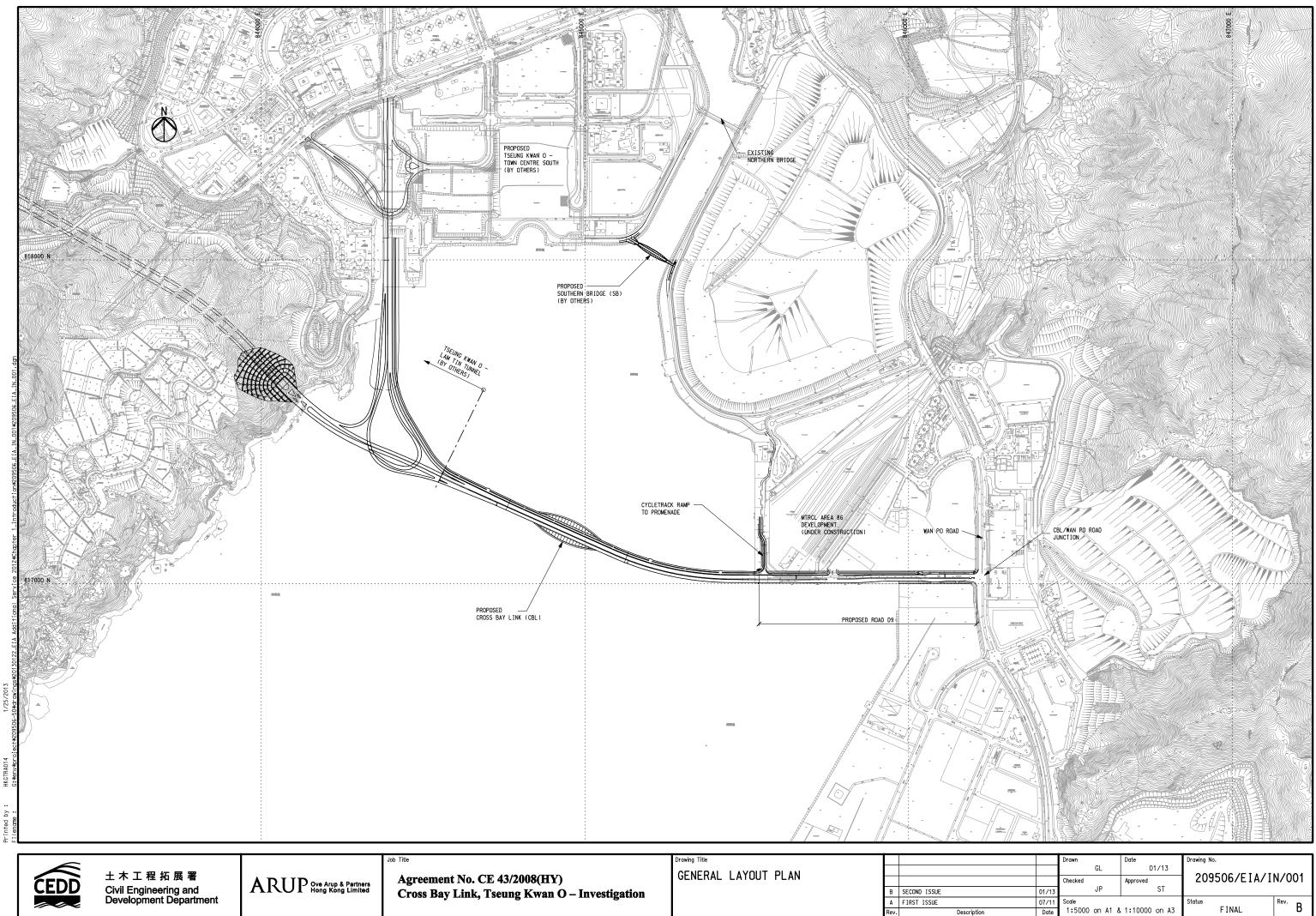
- 12.2.1 Due to the coming month is dry and windy season for Hong Kong, the Contractor was reminded that all the works to undertaking must be fulfill environmental statutory requirement, especially construction dust come from working sites of the Project.
- 12.2.2 Construction noise would be the key environmental issue as Lohas Park Phase 4 & 6 were already available for resident occupation. The 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.



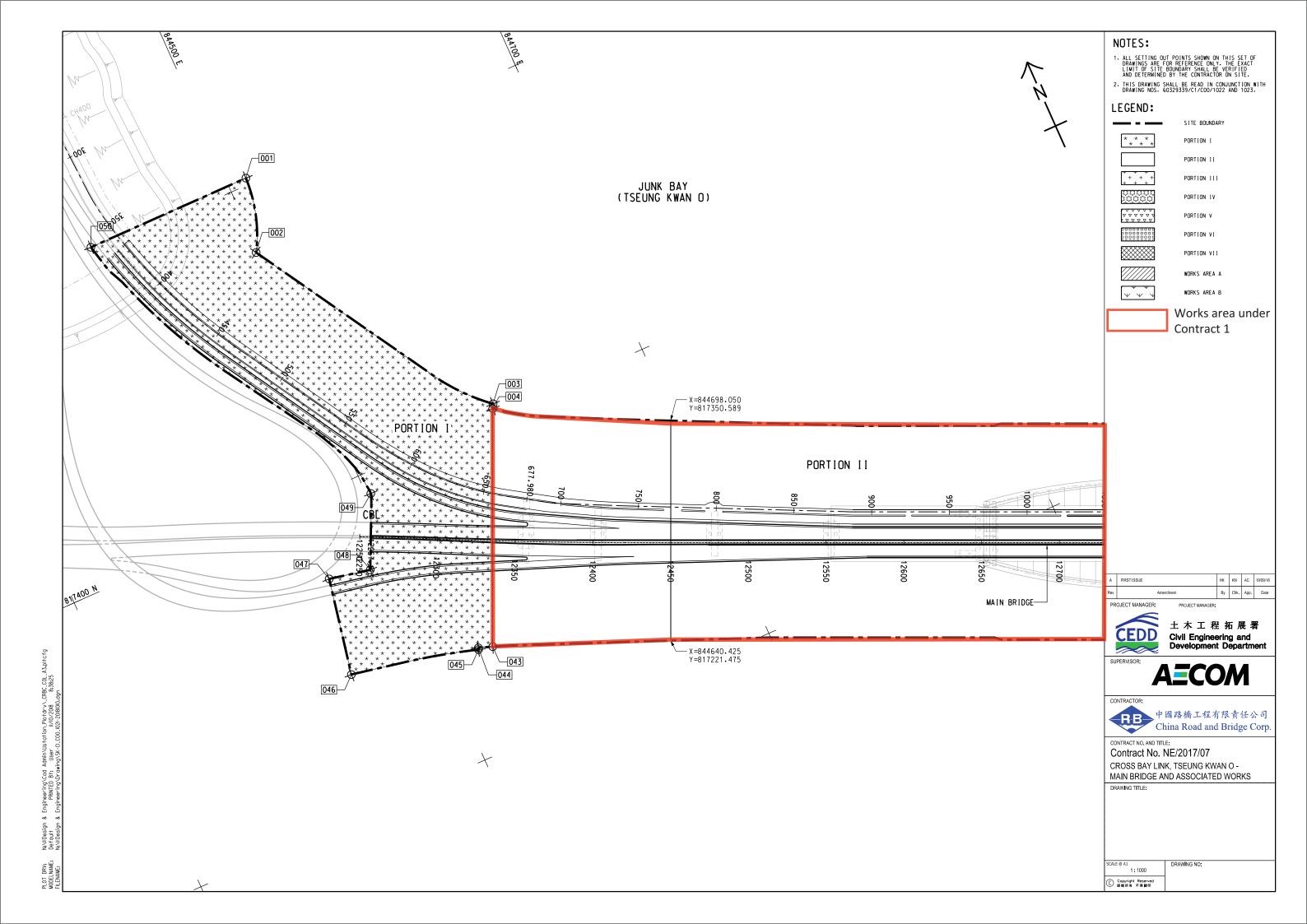
Appendix A

Project Layout Plan

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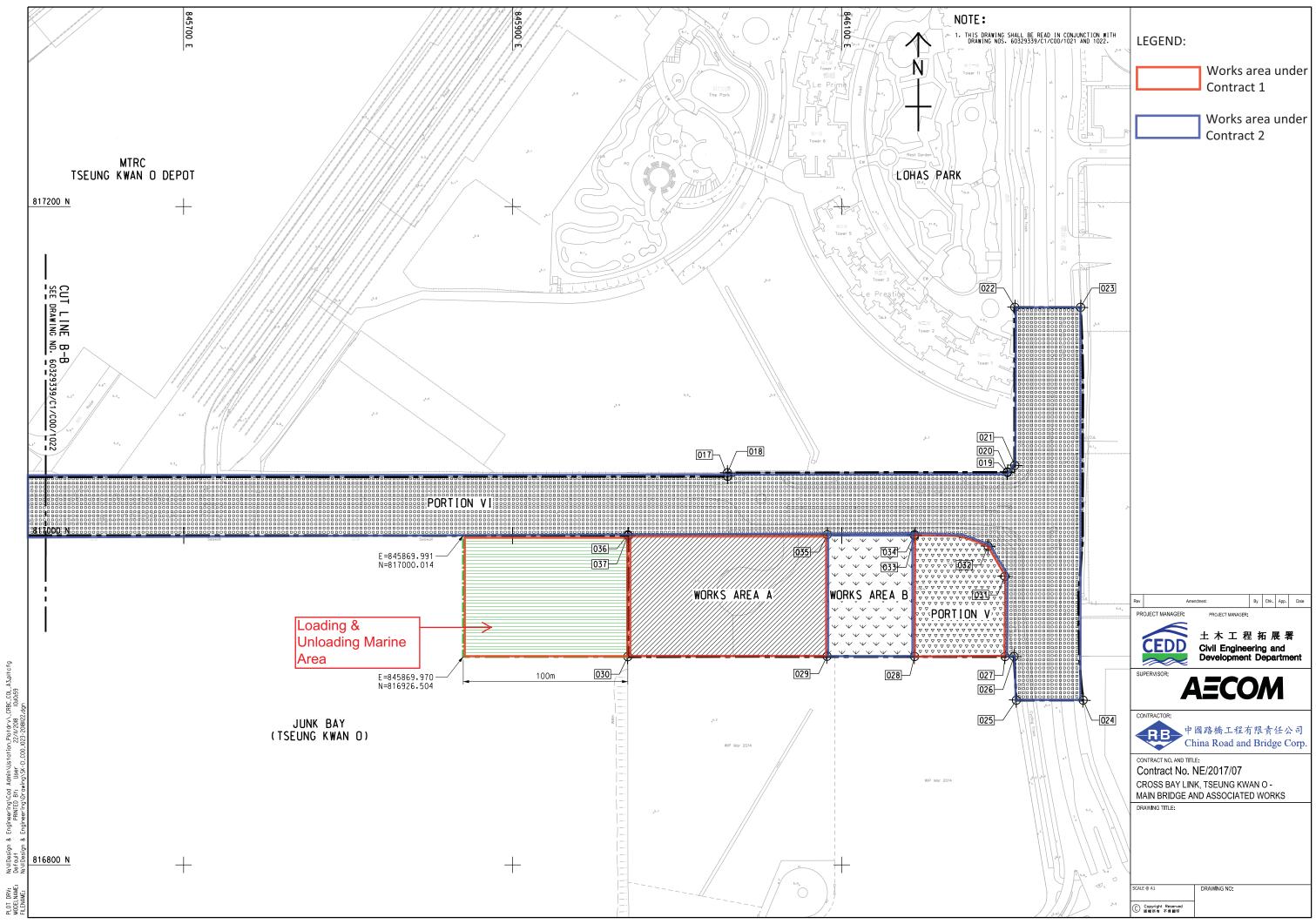


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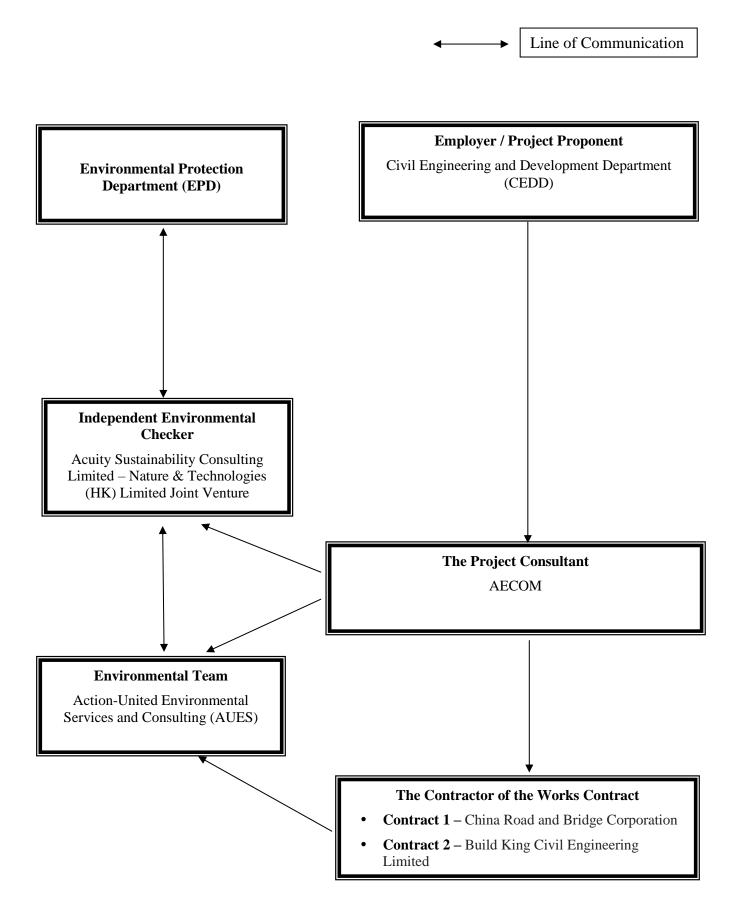


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Appendix B

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	Calvin So	9724 6254	2283 1689
CRBC	Environmental Supervisor	Alice Ngai	9148 5688	2283 1689
Build King	Site Agent	Stephen Leung	9071 7657	TBA
Build King	Environmental Officer	Louisa Fung	9271 5370	TBA
Build King	Environmental Supervisor	Kenneth Hung	6170 9304	TBA

Contact Details of Key Personnel for the Project

AUES

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

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KDS1300 Section KDS1320 Section KDS1340 Section KDS1360 Section Section Sectin Section Sectin	ion 1 of the Works-All Works within Portion I of the Site ion 2 of the Works-All Works within Portion II,III,IV and VI of the Site ion 3 of the Works-All of the Landscape Softworks	-	-		12-Feb-22*	0%			
KDS1320 Section KDS1340 Section KDS1360 Section Sontractor's Design Submodeliminaries, Contractor's CDS1230 Design ecasting & Fabrication V abrication of Precast Se Pre-stressing Works Pre-stressing Works P-PF5000 Linkin P-PF5040 Linkin	on 2 of the Works-All Works within Portion II,III,IV and VI of the Site	0	0	12-Feb-22	12-Feb-22				
KDS1340 Section KDS1360 Section eliminaries, Contractor's Design contractor's Design Subn CDS1230 Design elastrication of Precast Section V Pre-stressing Works Pre-stressing Works Pre-stressing Works P-PF5000 Linkin P-PF5040 Linkin	on 3 of the Works-All of the Landscape Softworks	-	0		12-Feb-22*	0%		 	
KDS1360 Sector eliminaries, Contractor's contractor's Design CDS1230 Design casting & Fabrication V abrication of Precast Sec Pre-stressing Works Pre-stressing Works Pre-stressing Works P-PF5020 Linkin P-PF5040 Linkin	-	0	0		12-Feb-22*	0%			
eliminaries, Contractor's contractor's Design Subm CDS1230 Design ecasting & Fabrication V abrication of Precast Ser Pre-stressing Works for Br P-PF5000 Linkin P-PF5020 Linkin		0	0		12-Feb-22*	0%			
Pre-stressing Works Fabrication V Pre-stressing Works Inikin P-PF5020 Linkin P-PF5040 Linkin	on 5 of the Works-All Works within Portion V	0	0		12-Feb-22*	0%			
CDS1230 Design ecasting & Fabrication V abrication of Precast Se Pre-stressing Works for Br P-PF5000 Linkin P-PF5020 Linkin P-PF5040 Linkin	's Design & Method Statement Submission & Approval	111	50	12-Jun-21 A	26-Jan-22				
Pre-stressing Works Pre-stressing Works Pre-stressing Works Fre-stressing Works Fre-stressing Works Image: Pre-stressing Works Pre-stressing Works Image: Pre-stressing Works Pre-stressing Works Image: Pre-stressing Works Pre-stressing Works Image: Pre-stressing Works P-PF5000 Linkin P-PF5020 Linkin P-PF5040	mission and Approval gn of cycle rack (incl. 14 days TRA)	111	50 50	12-Jun-21 A 12-Jun-21 A	26-Jan-22 26-Jan-22	65%		 	
Pre-stressing Works Pre-stressing Works Pre-stressing Works Pre-stressing Works P-PF5000 Linkin P-PF5020 Linkin P-PF5040		111	110	20-Oct-21 A	20-Jan-22 27-Mar-22	0378			
Pre-stressing Works Pre-stressing Works P-PF5000 Linkin P-PF5020 Linkin P-PF5040 Linkin		140	105	20-Oct-21 A 20-Oct-21 A	27-Mar-22				
P-PF5000 Linkin P-PF5020 Linkin P-PF5040 Linkin		135	105	30-Nov-21 A	22-Mar-22 22-Mar-22		-		-
P-PF5020 Linkin P-PF5040 Linkin		41	11	30-Nov-21 A	18-Dec-21			 Pre-stressing Works for B 	· · ·
P-PF5040 Linkin	ing and stressing for 1L-N - W5 (Linking yard No.2)	21	0	30-Nov-21 A	07-Dec-21 A	100%		Linking and stressing for 1L-N - W5 (Linking y	
	ing and stressing for 1K-N - 1L-N (Linking yard No.2)	6	6	10-Dec-21	15-Dec-21	0%		Linking and stressing for 1K-N	
P-PF5060 Linkin	ing and stressing for 1L-S - W5 (Linking yard No.1)	21	5	07-Dec-21 A	12-Dec-21	20%		Linking and stressing for 1L-S - W5 (
1112000	ing and stressing for 1K-S - 1L-S (Linking yard No.1)	6	6	13-Dec-21	18-Dec-21	0%		Linking and stressing for	1K-S - 1L-S (Linking yard No.1)
Pre-stressing Works for Bri P-PF6000 Linkin		95 15	95 15	16-Dec-21 21-Jan-22	20-Mar-22 04-Feb-22	0%		 	
	ing and stressing for 5B-5C (Linking yard No.1)								
	ing and stressing for 5E-5F (Linking yard No.1)	15	15	20-Feb-22	06-Mar-22	0%			Linking and stressing for 5H-W5 (Li
	ing and stressing for 5H-W5 (Linking yard No.2)	15	15	16-Dec-21	30-Dec-21	0%			Jinking and stressing for 5H-W5 (L)
	ing and stressing for 5A-5B (Linking yard No.2)	15	15	15-Jan-22	29-Jan-22	0%			
	ing and stressing for 5F-5G (Linking yard No.2)	15	15	14-Feb-22	28-Feb-22	0%		 	
	ing and stressing for 5C-5D (Linking yard No.3)	15	15	05-Jan-22	19-Jan-22	0%			
	ing and stressing for 5D-5E (Linking yard No.3)	15	15	04-Feb-22	18-Feb-22	0%			
P-PF6140 Linkin	ing and stressing for 5G-5H (Linking yard No.3)	15	15	06-Mar-22	20-Mar-22	0%			
Pre-stressing Works for Bri P-PF7000 Linkin	Bridge CT ing and stressing for 9A-9B (Linking yard No.1)	92 15	92 15	21-Dec-21 05-Feb-22	22-Mar-22 19-Feb-22	0%		•	
					19-Feb-22 21-Mar-22			 	
	ing and stressing for 9F-9G (Linking yard No.1)	15	15	07-Mar-22	21-Mar-22 14-Jan-22	0%		-	Linkir
	ing and stressing for 9C-9D (Linking yard No.2)	15	15	31-Dec-21					
	ing and stressing for 9D-9E (Linking yard No.2)	15	15	30-Jan-22	13-Feb-22	0%			
	ing and stressing for 9G-9H (Linking yard No.2)	15	15	08-Mar-22	22-Mar-22	0%			Linking and starting C. C.
	ing and stressing for 9H-W5 (Linking yard No.3)	15	15	21-Dec-21	04-Jan-22	0%		 	Linking and stressing for 9
	ing and stressing for 9B-9C (Linking yard No.3)	15	15	20-Jan-22	03-Feb-22	0%			
	ing and stressing for 9E-9F (Linking yard No.3)	15	15	19-Feb-22	05-Mar-22	0%			
Pre-stressing Works for Bri P-PF8000 Linkin	Bridge S200 ing and stressing for 2L-W5 (Linking yard No.1)	15 15	15 15	06-Jan-22 06-Jan-22	20-Jan-22 20-Jan-22	0%			
	חוק מוגו סעיססווק וטו 21- ייז גן (בווגוווק אזוע וייט. ו)					0%			
Fabrication Works Precast Segments for Bridg	dge S400	133	103 58	20-Oct-21 A 27-Oct-21 A	20-Mar-22 03-Feb-22			 	
	ication of segment for 5A-5B (5AU1-12) (12nos) (Line No.1)	24	10	20-Nov-21 A	17-Dec-21	66.7%		Fabrication of segment for	5A-5B (5AU1-12) (12nos) (Line No
P-PF2100 Fabrica	ication of segment for 5G - 5H (5GDU0, 5GU1-13) (14nos) (Line No.1)	48	48	18-Dec-21	03-Feb-22	0%			
P-PF2120 Fabrica	ication of segment for 5F - 5G (5FDU0, 5FU1-13) (14nos) (Line No.2)	38	38	23-Dec-21	29-Jan-22	0%			
P-PF2140 Fabrica	ication of segment for 5B-5C (5BDU0, 5BU1-13) (14nos) (Line No.4)	45	18	27-Oct-21 A	25-Dec-21	75%		Fabrication	of segment for 5B-5C (5BDU0, 5E
								· · · · · · · · · · · · · · · · · · ·	
Remaining Level	el of Effort Critical Remaining Work							L	
Actual Work	······································							<u> </u>	E 08-Dec-2

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2	3	30	1 0	0	13	20		
								▼ Planned Key I ▼ Planned Key I
								◆ Key Date 3A-0
							_	Contractual Key Dates a
				-				Resived Contractual Key
				-				Revised Key Dates
				◆ K	ey Date 4	C- Completion		Key Date 3A-Completio Works in Bridges within
				▼ R	evised Se	ction of the Wo	rks	
				♦ Se	ection 2 of	f the Works-All	Work	s within Portion II,III,IV
							-	s within Portion V
					-	Contractual Key		and Section of the Work
ion of	f all Worl	cs in Bridg	ges within		-			tion and T&C of TCSS
				♦ K	ey Date 4	- Completion o	of all V	Vorks in Bridges within P
						Contractual Sect		
								s within Portion I of the
								s within Portion II,III,IV
								e Landscape Softworks is within Portion V
	 Prelim 	inaries, C	ontractor's			Statement Subr		
		:		ission and				
	Design	1 of cycle	rack (incl.	14 days T	RA)			
			Linking	and stress	ing for 5E	3-5C (Linking y	yard N	
No.2)							Linking and
1110.2		Linking ar	nd stressing	g for 5A-5	B (Linkin	g yard No.2)		
		Ũ		с I	ì	,	_	Linking and stressing for
ig and	stressing	g for 5C-5	D (Linkin	g yard No	.3)			
						Linking and st	ressin	g for 5D-5E (Linking yaı
						Linking and	stress	ing for 9A-9B (Linking y
						g und		
ssing	for 9C-91	D (Linkin	g yard No.	2)				
	•				Linking a	ind stressing for	r 9D-9	E (Linking yard No.2)
nking	yard No.							
			Linking a	nd stressin	g for 9B-9	OC (Linking ya	rd No.	
atracci	ng Work	o for Drid	~~ \$200					Linking and st
	-	s for Brid ng for 2L	-	ting yard N	No.1)			
			<u>.</u>		- D - 14	1400		
			Precast Se	gments fo	r Bridge S	5400		
			Fabrication	n of segme	ent for 5G	- 5H (5GDU0	, 5GU	1-13) (14nos) (Line No.
		Fabrication	n of segme	ent for 5F -	- 5G (5FD	0U0, 5FU1-13)	(14no	s) (Line No.2)
4nos)	(Line N	0.4)						
		F	Revision	n		Checke	d	Approved
	3MR	P (Dec	21-Ma	r 22)				

Data Date :08-Dec-21 Sheet 2of 7

S	neet 2of 7	1.4.2.4.	Octore Distant		-1	1 Datab	Disalizat 9/1		
ACIMIYID		AchilyName	Original Durator	Remaining Durator	n start	Hinish	Physical % Complete		December 2021 January 2022 05 12 19 26 02 09 16
	P-PF2160	Fabrication of segment for Pier W5 (5JD0) (1no) (Line No.5)	10	0	10-Nov-21 A	29-Nov-21 A	100%	Fabrication of s	egment for Pier W5 (5JD0) (1no) (Line No.5)
	P-PF2200	Fabrication of segment for Pier 5E (5ED0, 5EU0) (2nos) (Line No.5)	20	20	17-Dec-21	05-Jan-22	0%		Fabrication of segment for Pier 5E (51
	Precast Segments P-PF3100	s for Bridge CT Fabrication of segment for 9C-9D (9DDU0, 9CDU0, 9CU1-12) (14nos) (Line No.2)	120 50	90 20	20-Oct-21 A 08-Nov-21 A	07-Mar-22 27-Dec-21	89.3%		Fabrication of segment for 9C-9D (9DDU0, 9CDU0, 9C
	P-PF3120	Fabrication of segment for 9B-9C (9BDU0, 9BU1-12) (13nos) (Line No.2)	26	26	20-Oct-21 A	02-Jan-22	84.6%		Fabrication of segment for 9B-9C (9BDU0,
	P-PF3140	Fabrication of segment for 9F-9G (9FDU0, 9FU1-12) (15nos) (Line No.3)	61	61	03-Jan-22	02-Jan-22 04-Mar-22	0%		
	P-PF3160	Fabrication of segment for 9A-9B & Pier 9G (9GDU0, 9AU1-12) (13nos) (Line No.4)	36	36	26-Dec-21	30-Jan-22	0%		
	P-PF3180	Fabrication of segment for 9G-9H (9GU1-12) (12nos) (Line No.4)	36	36	31-Jan-22	07-Mar-22	0%	Ea	institution of comment for Dian W5 (01D0) (lace) (Lace No 5)
	P-PF3200	Fabrication of segment for Pier W5 (9JD0) (Ino) (Line No.5)	10	0	17-Nov-21 A	05-Dec-21 A	100%	Fa	prication of segment for Pier W5 (9JD0) (1no) (Line No.5)
	P-PF3240	Fabrication of segment for Pier 9E (9ED0, 9EU0) (2nos) (Line No.5)	20	20	06-Jan-22	25-Jan-22	0%		
	Precast Segments P-PF4000	s for Bridge S200 Fabrication of segment for 2J-2K (2JUI-13) (13nos) (Line No.2)	103 50	103 50	16-Nov-21 A 30-Jan-22	20-Mar-22 20-Mar-22	0%		
	P-PF4040	Fabrication of segment for Pier 5W (2MD0) (Ino) (Line No.5)	10	9	06-Dec-21 A	16-Dec-21	10%	_	Fabrication of segment for Pier 5W (2MD0) (1no) (Line No.5)
	P-PF4060	Fabrication of segment for 2L-W5 (2LUI-13) (13nos) (Line No.2)	26	22	16-Nov-21 A	29-Dec-21	76.9%		Fabrication of segment for 2L-W5 (2LU1-13) (13nd
	P-PF4080	Fabrication of segment for 2K-2L (2KDU0, 2KU1-13) (14nos) (Line No.6)	52	52	30-Dec-21	19-Feb-22	0%		
			131	110	12-Nov-21 A	27-Mar-22	070		
	S1-PP1002	Pacast Pier (TKOI Entrustment Works) Fabrication of precast pier for Pier 2L	30	2	12-Nov-21 A	09-Dec-21	80%		Fabrication of precast pier for Pier 2L
	S1-PP1003	Fabrication of precast pier for Pier 5B	30	30	16-Dec-21	14-Jan-22	0%		Fabrication of preca
	S1-PP1004	Fabrication of precast pier for Pier 9B	30	30	25-Dec-21	23-Jan-22	0%		
	S1-PP1005	Fabrication of precast pier for Pier 9F	24	24	27-Jan-22	19-Feb-22	0%		
									Fabrication of precast pier for Pier 9H
	S1-PP1006	Fabrication of precast pier for Pier 9H	24	17	02-Dec-21 A	24-Dec-21	70%		
	S1-PP1007	Fabrication of precast pier for Pier 5C	24	24	25-Dec-21	17-Jan-22	0%		Fabrication o
	S1-PP1008	Fabrication of precast pier for Pier 9C	24	24	18-Jan-22	10-Feb-22	0%		
	S1-PP1009	Fabrication of precast pier for Pier 9G	24	24	05-Feb-22	28-Feb-22	0%		
	S1-PP1010	Fabrication of precast pier for Pier 5D	24	24	25-Dec-21	17-Jan-22	0%		Fabrication o
	S1-PP1011	Fabrication of precast pier for Pier 9D	24	24	20-Jan-22	12-Feb-22	0%		
	S1-PP1012	Fabrication of precast pier for Pier 5F	24	24	31-Jan-22	23-Feb-22	0%		
	S1-PP1013	Fabrication of precast pier for Pier 2K	24	24	04-Mar-22	27-Mar-22	0%		
	S1-PP1014	Fabrication of precast pier for Pier 5G	24	24	30-Jan-22	22-Feb-22	0%		
	S1-PP1015	Fabrication of precast pier for Pier 5E	48	40	04-Dec-21 A	16-Jan-22	12%		Fabrication of p
	S1-PP1016	Fabrication of precast pier for Pier 9E	48	48	08-Dec-21	24-Jan-22	0%		
	Section 1 of the Wo	orks- All Works within Portion I of the Site (Entrusted Works of TKOI Viaduct)	278	165	24-Aug-21 A	21-May-22			
	Construction Wor	rk (Works Available for Piles 5D,9D,5E, 9E, 5F, 9F, 5H, 9H, 1L, 2L)	118	88	22-Nov-21 A	05-Mar-22			
	_	cast Pier & 2nd Pour for Pile Cap - 1L	43	11	22-Nov-21 A	18-Dec-21			▼ Installation of Precast Pier & 2nd Pour for Pile Cap - 1L
	S1-PP2000	Preparation work and delivery works for Pier 1L	10	0	22-Nov-21 A	02-Dec-21 A	100%	Fieparau	on work and delivery works for Pier 1L
	S1-PP3000	Insatlation of precast pier and 2st pour for pile cap 1L	16	6	03-Dec-21 A	14-Dec-21	60%		Insatllation of precast pier and 2st pour for pile cap 1L
	S1-PP3002	Erection of precast pier segments at Pier 1L-N and 1L-S	4	4	15-Dec-21	18-Dec-21	0%		Erection of precast pier segments at Pier 1L-N and 1L-S
		of Bridge Segments for Bridge ML n between Pier 1L-N and Pier W5 - Stage 1-1	11	11	20-Dec-21 20-Dec-21	30-Dec-21 27-Dec-21			Stage 1 - Erection of Bridge Segments for Bridge
	S1-EB1070	Preparation work and delivery works for segment between Pier 1L-N and Pier W5 (B1-1)	7	7	20-Dec-21	26-Dec-21	0%		Preparation work and delivery works for segment between
	S1-EB5020	Segment erection between Pier 1L-N and Pier W5	1	1	27-Dec-21	27-Dec-21	0%		Segment erection between Pier 1L-N and Pier W5
	Segment Erection	n between Pier 1L-N and Pier 1K - Stage 1-2	9	9	20-Dec-21	28-Dec-21			Segment Erection between Pier 1L-N and Pier 1K - Si
	S1-EB1080	Preparation work and delivery works for segment between Pier 1L-N and Pier 1K (B2-1)	7	7	20-Dec-21	26-Dec-21	0%		Preparation work and delivery works for segment between
	S1-EB5040	Segment erection between Pier 1L-N and Pier 1K	1	1	28-Dec-21	28-Dec-21	0%		Segment erection between Pier 1L-N and Pier 1K
	Segment Erection	n between Pier 1L-S and Pier W5 - Stage 1-3	9	9	21-Dec-21	29-Dec-21			Segment Erection between Pier 1L-S and Pier W5 -
	S1-EB1090	Preparation work and delivery works for segment between Pier 1L-S and Pier W5 (B3-1)	7	7	21-Dec-21	27-Dec-21	0%		Preparation work and delivery works for segment betwe
	S1-EB5060	Segment erection between Pier 1L-S and Pier W5	1	1	29-Dec-21	29-Dec-21	0%		Segment erection between Pier 1L-S and Pier W5
		n between Pier 1L-S and Pier 1K - Stage 1-4	10	10	21-Dec-21	30-Dec-21			Segment Erection between Pier 1L-S and Pier 1K
	S1-EB1100	Preparation work and delivery works for segment between Pier 1L-S and Pier 1K (B4-1)	7	7	21-Dec-21	27-Dec-21	0%		Preparation work and delivery works for segment betwee
	S1-EB5080	Segment erection between Pier 1L-S and Pier 1K	1	1	30-Dec-21	30-Dec-21	0%		Segment erection between Pier 1L-S and Pier 1K
	Stitching Work, TC S1-SW1000	CSS, Duct and Handover Works Stitching works, laying of TCSS duct and handover to TCSS Contractor for Bridge ML	63	80 63	16-Dec-21 16-Dec-21	05-Mar-22 05-Mar-22	0%		
			20	20	11-Feb-22	05-Mar-22	0%		
	S1-SW1020	Construction of site gantry at L1-W5		0			0%		
	S1-SW1020 S1-SW1040	Completion of Key Date 3A	0	0	24.4	05-Mar-22	0,0		
	S1-SW1020 S1-SW1040 Construction Wor	Completion of Key Date 3A rk (Works Available for Piles 5B,9B,5C,9C,5G,9G,2K)	278	165	24-Aug-21 A 07-Mar-22	21-May-22			
	S1-SW1020 S1-SW1040 Construction Wor	Completion of Key Date 3A			24-Aug-21 A 07-Mar-22 07-Mar-22		0%		
	S1-SW1020 S1-SW1040 Construction Wor Footway and cycle S1-RW3000	Completion of Key Date 3A Completion of Key Date 3A rk (Works Available for Piles 5B,9B,5C,9C,5G,9G,2K) e track, Road Surfacing, Street Furniture Installation and Remaining Works	278 60	165 60	07-Mar-22	21-May-22 21-May-22			
	S1-SW1020 S1-SW1040 Construction Wor Footway and cycle S1-RW3000 Construction Work	Completion of Key Date 3A rk (Works Available for Piles 5B,9B,5C,9C,5G,9G,2K) e track, Road Surfacing, Street Furniture Installation and Remaining Works Footway and cycle track, Road Surfacing, Street Furniture Installation and Remaining Works for Bridge ML	278 60 60	165 60 60	07-Mar-22 07-Mar-22	21-May-22 21-May-22 21-May-22			
	S1-SW1020 S1-SW1040 Construction Wor Footway and cycle S1-RW3000 Construction Work Installation of Pre	Completion of Key Date 3A rk (Works Available for Piles 5B,9B,5C,9C,5G,9G,2K) e track, Road Surfacing, Street Furniture Installation and Remaining Works Footway and cycle track, Road Surfacing, Street Furniture Installation and Remaining Works for Bridge ML k for Piers 5B, 9B, 5C,9C, 5G,9G scast Pier & 2nd Pour for Pile Cap	278 60 60 224	165 60 60 111	07-Mar-22 07-Mar-22 24-Aug-21 A	21-May-22 21-May-22 21-May-22 28-Mar-22			Data
	SI-SW1020 SI-SW1040 Construction Wor Footway and cycle SI-RW3000 Construction Work Installation of Pre	Completion of Key Date 3A ck (Works Available for Piles 5B,9B,5C,9C,5G,9G,2K) e track, Road Surfacing, Street Furniture Installation and Remaining Works Footway and cycle track, Road Surfacing, Street Furniture Installation and Remaining Works for Bridge ML k for Piers 5B, 9B, 5C,9C, 5G,9G scast Pier & 2nd Pour for Pile Cap Ing Level of Effort Critical Remaining Work	278 60 60 224 100	165 60 60 111 100	07-Mar-22 07-Mar-22 24-Aug-21 A 08-Dec-21	21-May-22 21-May-22 21-May-22 28-Mar-22 17-Mar-22	0%		
	S1-SW1020 S1-SW1040 Construction Wor Footway and cycle S1-RW3000 Construction Work Installation of Pre	Completion of Key Date 3A rk (Works Available for Piles 5B,9B,5C,9C,5G,9G,2K) e track, Road Surfacing, Street Furniture Installation and Remaining Works Footway and cycle track, Road Surfacing, Street Furniture Installation and Remaining Works for Bridge ML k for Piers 5B, 9B, 5C,9C, 5G,9G coast Pier & 2nd Pour for Pile Cap ng Level of Effort Critical Remaining Work ork Milestone	278 60 60 224 100	165 60 60 111 100	07-Mar-22 07-Mar-22 24-Aug-21 A 08-Dec-21	21-May-22 21-May-22 21-May-22 28-Mar-22 17-Mar-22	0%	e (Decembe	r 2021 - March 2022)

		February 2022		March 2022
23	30 06	13	20	27 06 3
(5ED0, 5EU0) (2nos) (Line No.5)			
9CU1-12) (14n	os) (Line No.2)			▼ Precast Se
	3nos) (Line No.3)			
				Fabrication of se
	abrication of segment f	or 9A-9B & Pie	er 9G (9GDU0, 9A	U1-12) (13nos) (Line No
•				Fabrication
Fabrication	of segment for Pier 9E	(9ED0, 9EU0)	(2nos) (Line No.5)
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nos) (Line No.2)		Fabrication of sec	ment for 2K-2L (2KDU(
			Tablication of seg	inclit for 2K-2E (2KD00
ecast pier for Pie				
Fabrication of	precast pier for Pier 9B		Fabrication C	not nim for Bir. OF
			rabrication of pre	cast pier for Pier 9F
of precast pier 1	or Pier 5C			
1 1		abrication of pre	ecast pier for Pier 9	с
				Fabrication of precast pie
of precast pier	or Pier 5D			
_		 Fabrication o 	f precast pier for P	
•			Fabricatio	on of precast pier for Pier
			Fabrication	of precast pier for Pier 50
f precast pier for	Pier 5E			1 1
Fabrication of the second s	f precast pier for Pier 9	Ē		
				- Contraction I
				Construction V
ge ML				
Stage 1-1				
en Pier 1L-N an	d Pier W5 (B1-1)			
Stage 1-2				
-	d Pier 1K (B2-1)			
5 - Stage 1-3 ween Pier 1L-S a	nd Pier W5 (B3-1)			
;				
K - Stage 1-4	1 D 17 (D. (1)			
ween Pier 1L-S a	ind Pier 1K (B4-1)			
				✓ Stitching Work
				Stitching work
	-			Construction c
				 Completion of
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						Complete	21 28	05 12 19 26	02 09 16
51-FF2040 F	: Pier & 2nd Pour for Pile Cap - 2L Preparation work and delivery works for Pier 2L	43	43 10	10-Dec-21 10-Dec-21	21-Jan-22 19-Dec-21	0%		Preparation work and	: delivery works for Pier 2L
S1-PP3010 I	installation of precast pier and 2st pour for pile cap 2L	10	10	11-Jan-22	21-Jan-22	0%			
Installation of Precast	Pier & 2nd Pour for Pile Cap - 5B	59	59	15-Jan-22	14-Mar-22				
S1-PP2060 F	Preparation work and delivery works for Pier 5B	10	10	15-Jan-22	24-Jan-22	0%			
	installation of precast pier and 2st pour for pile cap 5B	10	10	03-Mar-22	14-Mar-22	0%			
	: Pier & 2nd Pour for Pile Cap - 9B Preparation work and delivery works for Pier 9B	10	10 10	24-Jan-22 24-Jan-22	02-Feb-22 02-Feb-22	0%			
	Pier & 2nd Pour for Pile Cap - 5C	37	37	18-Jan-22	23-Feb-22				
S1-PP2140 F	Preparation work and delivery works for Pier 5C	10	10	18-Jan-22	27-Jan-22	0%			
S1-PP3120 I	installation of precast pier and 2st pour for pile cap 5C	7	7	16-Feb-22	23-Feb-22	0%			
	Pier & 2nd Pour for Pile Cap - 9C	10 10	10 10	11-Feb-22 11-Feb-22	20-Feb-22 20-Feb-22	0%			
	Preparation work and delivery works for Pier 9C Preparation work for Pile Cap - 9G Pre	10	10	01-Mar-22	10-Mar-22	078			
	Preparation work and delivery works for Pier 9G	10	10	01-Mar-22	10-Mar-22	0%			
	Pier & 2nd Pour for Pile Cap - 5G	10	10	23-Feb-22	04-Mar-22				
	Preparation work and delivery works for Pier 5G	10	10	23-Feb-22	04-Mar-22	0%			
	Pier & 2nd Pour for Pile Cap - 5H Preparation work and delivery works for Pier 5H	24	24 10	08-Dec-21 08-Dec-21	31-Dec-21 17-Dec-21	0%		Preparation work and del	Installation of Precast Pier & 2nd Pour ivery works for Pier 5H
	installation of precast pier and 2st pour for pile cap 5H	10	10	18-Dec-21	31-Dec-21	0%			Installation of precast pier and 2st po
	Pier & 2nd Pour for Pile Cap - 9H	62	62	25-Dec-21	24-Feb-22			· · · · · · · · · · · · · · · · · · ·	
S1-PP2120 F	Preparation work and delivery works for Pier 9H	10	10	25-Dec-21	03-Jan-22	0%			Preparation work and delivery
	installation of precast pier and 2st pour for pile cap 9H	10	10	14-Feb-22	24-Feb-22	0%			
	: Pier & 2nd Pour for Pile Cap - 5D Preparation work and delivery works for Pier 5D	23	23 9	18-Jan-22 18-Jan-22	09-Feb-22 26-Jan-22	0%			
	installation of precast pier and 2st pour for pile cap 5D	9	9	27-Jan-22	09-Feb-22	0%			
	Pier & 2nd Pour for Pile Cap - 5E	25	25	17-Jan-22	10-Feb-22	0,0			
	Preparation work and delivery works for Pier 5E	10	10	17-Jan-22	26-Jan-22	0%			
S1-PP3260 I	installation of precast pier and 2st pour for pile cap 5E	10	10	27-Jan-22	10-Feb-22	0%			
	Pier & 2nd Pour for Pile Cap - 9D	21	21	13-Feb-22	05-Mar-22	00/			
	Preparation work and delivery works for Pier 9D	10	10	13-Feb-22	22-Feb-22	0%			
	installation of precast pier and 2st pour for pile cap 9D	10	10	23-Feb-22	05-Mar-22	0%			
	Preparation work and delivery works for Pier 9E	10 10	10 10	25-Jan-22 25-Jan-22	03-Feb-22 03-Feb-22	0%			
	Pier & 2nd Pour for Pile Cap - 5F	22	22	24-Feb-22	17-Mar-22				
	Preparation work and delivery works for Pier 5F	10	10	24-Feb-22	05-Mar-22	0%			
	installation of precast pier and 2st pour for pile cap 5F	10	10	07-Mar-22	17-Mar-22	0%			
	Pier & 2nd Pour for Pile Cap - 9F Preparation work and delivery works for Pier 9F	21	21 10	20-Feb-22 20-Feb-22	12-Mar-22 01-Mar-22	0%			
	installation of precast pier and 2st pour for pile cap 9F	10	10	02-Mar-22	12-Mar-22	0%			
Stage 2 - Erection of E		80	80	31-Dec-21	20-Mar-22				•
	gments for Bridge S400 and Bridge CT	80	80	31-Dec-21	20-Mar-22				V Segme
	ween Pier 5H and Pier W5 - Stage 2-1 Preparation work and delivery works for segment between Pier 5H and W5 (B2-2)	15 14	15 14	31-Dec-21 31-Dec-21	14-Jan-22 13-Jan-22	0%			Preparat
S1-EB2004 S	Segment erection between Pier 5H and Pier W5	1	1	14-Jan-22	14-Jan-22	0%			Segment
	ween Pier 9D and Pier 9E - Stage 2-11	14	14	14-Feb-22	27-Feb-22				
	Preparation work and delivery works for segment between Pier 9D and Pier 9E (B3-4)	14	14	14-Feb-22	27-Feb-22	0%			
	ween Pier 5E and Pier 5F - Stage 2-12 Preparation work and delivery works for segment between Pier 5E and Pier 5F (B4-4)	14 14	14 14	07-Mar-22 07-Mar-22	20-Mar-22 20-Mar-22	0%			
Segment erection betw	ween Pier 9E and Pier 9F - Stage 2-13	14	14	06-Mar-22	19-Mar-22				
	Preparation work and delivery works for segment between Pier 9E and Pier 9F (B1-5)	14	14	06-Mar-22	19-Mar-22	0%			
	ween Pier 5F and Pier 5G - Stage 2-10 Preparation work and delivery works for segment between Pier 5F and Pier 5G (B2-5)	14 14	14 14	01-Mar-22 01-Mar-22	14-Mar-22 14-Mar-22	0%			
	ween Pier 9H and Pier W5 - Stage 2-2	52	52	05-Jan-22	25-Feb-22				+
	Preparation work and delivery works for segment between Pier 9H and W5 (B3-2)	14	14	05-Jan-22	18-Jan-22	0%			
	Segment erection between Pier 9H and Pier W5	1	1	25-Feb-22	25-Feb-22	0%			
	ween Abutment 5A and Pier 5B - Stage 2-5 Preparation work and delivery works for segment between Abutment 5A and Pier 5B (B4-3)	14 14	14 14	03-Feb-22 03-Feb-22	16-Feb-22 16-Feb-22	0%			
	ween Abutment 9A and Pier 9B - Stage 2-9	14	14	20-Feb-22	05-Mar-22	070			
	Preparation work and delivery works for segment between Abutment 9A and Pier 9B (B1-4)	14	14	20-Feb-22	05-Mar-22	0%			
	ween Pier 5B and Pier 5C - Stage 2-7 Prenaration work and delivery works for segment between Pier 5R and Pier 5C (R2,3)	14	14 14	05-Feb-22 05-Feb-22	18-Feb-22	0%			
	Preparation work and delivery works for segment between Pier 5B and Pier 5C (B2-3)	14		05-Feb-22	18-Feb-22	U%			
	Preparation work and belivery works for segment between Pier 9B and pier 9C (B3-3)	14 14	14 14	04-Feb-22 04-Feb-22	17-Feb-22 17-Feb-22	0%			
	ween Pier 5C and Pier 5D - Stage 2-3	38	38	20-Jan-22	26-Feb-22				
	Preparation work and delivery works for segment between Pier 5C and 5D (B4-2)	14	14	20-Jan-22	02-Feb-22	0%			

		February 2022		March 2022
23 stallatio	n of Proc	30 06 13 ast Pier & 2nd Pour for Pile Cap - 2L	20	27 06 3
-aaridUO				
stallatio	on of preca	st pier and 2st pour for pile cap 2L		
Pre	paration v	vork and delivery works for Pier 5B		
-		Installation of Precast Pier & 2r Preparation work and delivery	· · ·	9B
	_			n of Precast Pier & 2nd P
	Prepara	ation work and delivery works for Pi		
				n of precast pier and 2st p
				ecast Pier & 2nd Pour fo k and delivery works for
			-r	 Insta
			C	Prep
				Installation of Pr Preparation work
e Cap -	- 5H			- reparation won
c Cap -	511			
e cap 5	н			
			▼ Installati	on of Precast Pier & 2nd
or Pier 9	9H			
				on of precast pier and 2s
	Preparati	 Installation of Pro- on work and delivery works for Pier 	ecast Pier & 2nd Pour 5D	tor Pile Cap - 5D
		-	ecast pier and 2st pour	for pile cap 5D
		-	Precast Pier & 2nd Po	
	Preparati	on work and delivery works for Pier		
		Installation of J	precast pier and 2st po	ur for pile cap 5E
		·	Propagation	 Installation of work and delivery works
			reparauon	-
		Installation of Brasset Bir o	2nd Pour for Bila C	Installation of
		Installation of Precast Pier & Preparation work and deliver		- 7E
				Preparation we
			-	Prenaration work and
				- reparation work and
		H and Pier W5 - Stage 2-1 s for segment between Pier 5H and	W5 (B2-2)	
		and Pier W5		
. ociwe	an rici Ji	1 mid 1 id 117		orment errotion between
				gment erection between eparation work and deliv
			C	
ion wo	rk and del	very works for segment between Pie		ent erection between Pier
			Segministration	ent erection between Pier
				en Abutment 5A and Pier
		Pn	eparation work and de	livery works for segmen
			:	Segment erect Preparation we
				tween Pier 5B and Pier 5 d delivery works for segi
				een Pier 9B and Pier 9C delivery works for segme
				ment erection between P
		Preparation work and delivery		
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Data Date :08-Dec-21 Sheet 4of 7

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

C1 ED2022	Compart anotion hoterson DiansC and Dian 5D	1	,	26 E-1 22	2(E.1.22	Complete		0	5 12 19 26	02 09 16
S1-EB2055	Segment erection between Pier5C and Pier 5D	1	1	26-Feb-22	26-Feb-22	0%				
	etween Pier 9C and Pier 9D - Stage 2-6 Preparation work and delivery works for segment between Pier 9C and Pier 9D (B1-3)	14	14 14	29-Jan-22 29-Jan-22	11-Feb-22 11-Feb-22	0%				
	etween Pier 5D and Pier 5E - Stage 2-8	14	14	19-Feb-22	04-Mar-22					
S1-EB2062	Preparation work and delivery works for segment between Pier 5D and 5E (B2-4)	14	14	19-Feb-22	04-Mar-22	0%				
g Works (For Pi red Pile Machine	er 5B, 9B, 5C, 9C, 5G, 9G)	78 45	48	06-Nov-21 A 06-Nov-21 A	24-Jan-22 22-Dec-21				Bored Pile Macl	hine 1
Piling Works for Pie Pile 582	5B (Bridge S400)	30	8	06-Nov-21 A	22-Dec-21		➡ Pile 5B2		 Piling Works for 	r Pier 5B (Bridge S400)
	Drive Casing & excavate to founding level	9 9	0	06-Nov-21 A 06-Nov-21 A	24-Nov-21 A 23-Nov-21 A	100%	Drive Casing & e	xcavate to	founding level	
S1-PW3280	Install steel cage and concreting	1	0	24-Nov-21 A	24-Nov-21 A	100%	 Install steel cage 	e and conc	eting	
Testing		7	7	15-Dec-21	22-Dec-21				Testing	
	Sonic Test, interface core and full core for bored pile	7	7	15-Dec-21	22-Dec-21	0%				rface core and full core for bored pile
Piling Works for Pie Testing	r 5C (Bridge S400)	7	6	08-Dec-21 A 08-Dec-21 A	14-Dec-21 14-Dec-21			ļ	Piling Works for Pier 5C (Bridge Testing	
S1-PW3140	Sonic Test, interface core and full core for bored pile	7	6	08-Dec-21 A	14-Dec-21	20%			Sonic Test, interface core and ful	Il core for bored pile
ored Pile Machine Piling Works for Pie		14	14	23-Dec-21	07-Jan-22				v,	Bored Pile Machine 2 Piling Works for Pier 9
Testing		7	7	31-Dec-21 31-Dec-21	07-Jan-22 07-Jan-22	00/			,	Testing Sonic Test, interface co
	Sonic Test, interface core and full core for bored pile	7	7	31-Dec-21	07-Jan-22	0%				· · · · · · · · · · · · · · · · · · ·
Piling Works for Pie Testing	r9C (Bridge CT)	7	7	23-Dec-21 23-Dec-21	30-Dec-21 30-Dec-21					Piling Works for Pier 9C (Bridge CT) Testing
	Sonic Test, interface core and full core for bored pile	7	7	23-Dec-21	30-Dec-21	0%				Sonic Test, interface core and full core f
ored Pile Machine Piling Works for Pie		7	7	08-Jan-22	15-Jan-22					Bored
Testing		7	7	08-Jan-22 08-Jan-22	15-Jan-22 15-Jan-22					Testing
	Sonic Test, interface core and full core for bored pile	7	7	08-Jan-22	15-Jan-22	0%				Sonic
ored Pile Machine Piling Works for Pie		7	7	17-Jan-22 17-Jan-22	24-Jan-22 24-Jan-22					-
Testing	Sonic Test, interface core and full core for bored pile	7 7 7	7	17-Jan-22 17-Jan-22 17-Jan-22	24-Jan-22 24-Jan-22 24-Jan-22	0%				_
						0%				
allation of Preca	st Pile Cap & 1st Pour for Pile Cap Installation of pilecap and 1st pour for Pier 5H (Bridge S400-2) (NCE No. 168, 169, 170, 171, 172)	183 26	89 0	24-Aug-21 A 18-Sep-21 A	28-Mar-22 07-Dec-21 A	100%			Installation of pilecap and 1st pour for Pier 5H	(Bridge S400-2) (NCE No. 168, 169,
1-PC1040	Installation of pilecap and 1st pour for Pier 9H (Bridge CT-2)	26	26	11-Jan-22	12-Feb-22	0%				
-PC1060	Installation of pilecap and 1st pour for Pier 5D (Bridge \$400-1)	26	26	08-Dec-21	10-Jan-22	0%				Installation of pi
-PC1080	Installation of pilecap and 1st pour for Pier 5E (Bridge S400-1) (NCE No.168, 169, 170, 171, 172)	26	26	19-Sep-21 A	19-Jan-22	25%				
1-PC1120	Installation of pilecap and 1st pour for Pier 9D (Bridge CT-1)	26	26	08-Jan-22	10-Feb-22	0%				
-PC1140	Installation of pilecap and 1st pour for Pier 9E (Bridge CT-1)	26	26	20-Sep-21 A	12-Mar-22	35%				
I-PC1160	Installation of pilecap and 1st pour for Pier 5F (Bridge S400-2)	26	18	24-Aug-21 A	17-Feb-22	50%				
1-PC1180	Installation of pilecap and 1st pour for Pier 9F (Bridge CT-2)	26	30	24-Aug-21 A	28-Feb-22	40%				
I-PC2002	Installation of pilecap and 1st pour for Pier 5B (Bridge S400-1)	26	26	28-Jan-22	02-Mar-22	0%				
1-PC2005	Installation of pilecap and 1st pour for Pier 9B (Bridge CT-1)	26	26	11-Feb-22	12-Mar-22	0%				
1-PC2020	Installation of pilecap and 1st pour for Pier 5C (Bridge 400-1)	26	26	13-Jan-22	15-Feb-22	0%				
1-PC2040	Installation of pilecap and 1st pour for Pier 9C (Bridge CT-1)	26	26	11-Feb-22	12-Mar-22	0%				
1-PC2120	Installation of pilecap and 1st pour for Pier 5G (Bridge S400-2)	26	26	22-Feb-22	23-Mar-22	0%				
1-PC2140	Installation of pilecap and 1st pour for Pier 9G (Bridge CT-2)	26	26	26-Feb-22	28-Mar-22	0%				
1-PC2150	Installation of pilecap and 1st pour for Pier 2L (Bridge S200-3)	26	26	08-Dec-21	10-Jan-22	0%				Installation of pil
truction Work f		78	78	31-Dec-21	18-Mar-22				,	-
	r 2K (Bridge S200-3)	37	37	31-Dec-21	16-Feb-22				•	
1-PW5000	Piling platform installation	2	2	31-Dec-21	03-Jan-22	0%			,	Piling platform installation
e 2K1	Dan Guine & Guile & constant de suit	14	14	04-Jan-22	19-Jan-22					Drive Cacing & Gra
S1-PW5020	Drive Casing & Grab to excavate the soil	5	5	04-Jan-22	08-Jan-22	0%				Drive Casing & Gra
S1-PW5040	Install RCD and excavate the rock under rockhead level to founding level	6	6	10-Jan-22	15-Jan-22	0%				Install
S1-PW5060	Install steel cage and concreting	3	3	17-Jan-22	19-Jan-22	0%				
e 2K2 S1-PW5080	Drive Casing & Grab to excavate the soil	14	14 5	20-Jan-22 20-Jan-22	08-Feb-22 25-Jan-22	0%				
S1-PW5100	Install RCD and excavate the rock under rockhead level to founding level	6	6	26-Jan-22	04-Feb-22	0%				
S1-PW5120	Install steel cage and concreting	3	3	05-Feb-22	08-Feb-22	0%				
sting S1-PW5140	Sonic Test, interface core and full core for bored pile	7	7	09-Feb-22 09-Feb-22	16-Feb-22 16-Feb-22	0%				
	st Pile Cap & 1st Pour for Pile Cap	26	26	17-Feb-22	18-Mar-22	070				
-PC5000	Installation of pilecap and 1st pour for for Pier 2K (Bridge S200-3)	26	26	17-Feb-22	18-Mar-22	0%				
	f Bridge Segments	37	37	22-Jan-22	27-Feb-22					
	Segments for Bridge S200 etween Pier 2L and Pier W5- Stage 3-1	37	37 37	22-Jan-22 22-Jan-22	27-Feb-22 27-Feb-22					
	Preparation work and delivery works for segment between Pier 2L and Pier W5 (B1-2)	14	14	22-Jan-22 22-Jan-22	04-Feb-22	0%				-
S1-EB5240	Segment erection between Pier 2L and Pier W5	1	1	27-Feb-22	27-Feb-22	0%				
51-ED3240										

Remaining Work Summary -

Three Month Rolling Programme (December 2021 - March 2022)

23	30	06	February2022 13	20	27	March 2022 06
				e 1.	Ĩ	it erection between I
	:					d Pier 9D - Stage 2- for segment between
						Segment erection
						Preparation work
 Piling Works 	(For Pier 5	B, 9B, 5C, 9	C, 5G, 9G)			
e CT)						
ll core for bored	1 pile					
pile						
hine 3						
r Pier 5G (Brid						
face core and f		oored pile				
 Bored Pile N Piling Works 		(Bridge CT)			
 Testing Sonic Test, in 				vile		
∃ 30liic lest, ii			e ioi boied j	bile		
172)						
			Installation	n of pilecap a	nd 1st pour f	or Pier 9H (Bridge C
1st pour for Pie	er 5D (Bridg	ge S400-1)				
ion of pilecap a	and 1st pour	for Pier 5E (Bridge S400)-1) (NCE N	0.168, 169,	170, 171, 172)
	-					ier 9D (Bridge CT-1)
				I	1	
				Installation of	pilecan and	1st pour for Pier 5F
					-	allation of pilecap ar
						Installation of pileca
		_				instantation of photo
			Insta	illation of pile	can and 1st	pour for Pier 5C (Bri
		_	mbu	initiation of priv	scup und 150	pour for the po (Bi
				_		
let nour for Di	n 21 (Drida	a \$200.3)				
1st pour for Pie	er 2L (Bridge	e S200-3)				
1st pour for Pie	er 2L (Bridge	e S200-3)	Pi	ling Works fo	r Pier 2K (B	ridge S200-3)
1st pour for Pie	er 2L (Bridg	e S200-3)	Pi	ling Works fo	r Pier 2K (B	ridge S200-3)
1	er 2L (Bridg	e S200-3)	Pi	ling Works fo	r Pier 2K (B	ridge S200-3)
l rate the soil				-	r Pier 2K (B	ridge S200-3)
l rate the soil				-	r Pier 2K (B	ridge S200-3)
l vate the soil l excavate the r	ock under ro			-	r Pier 2K (B	ridge S200-3)
1 rate the soil l excavate the r teel cage and c	ock under ro	ockhead level → Pile 2k	to founding	-	r Pier 2K (B	ridge 5200-3)
l rate the soil	ock under ro oncreting ing & Grab t	ockhead level → Pile 2F	l to founding C2 ne soil	g level		
l ate the soil l excavate the r teel cage and c	ock under ro oncreting ing & Grab t	Pile 2F Pile 2F to excavate the stall RCD and	l to founding C2 ne soil nd excavate t	g level he rock unde	r rockhead k	ridge S200-3)
1 rate the soil l excavate the r teel cage and c	ock under ro oncreting ing & Grab t	Pile 2F Pile 2F to excavate the stall RCD and	to founding C2 ne soil id excavate t steel cage ar	g level he rock unde	r rockhead k	
l ate the soil l excavate the r teel cage and c	ock under ro oncreting ing & Grab t	Pile 2F Pile 2F to excavate the stall RCD and	to founding 2 ne soil id excavate t steel cage ar 7 Te	g level the rock unde ad concreting sting	r rockhead k	evel to founding leve
l ate the soil l excavate the r teel cage and c	ock under ro oncreting ing & Grab t	Pile 2F Pile 2F to excavate the stall RCD and	to founding 2 ne soil id excavate t steel cage ar 7 Te	g level the rock unde ad concreting sting	r rockhead k	
1 rate the soil l excavate the r teel cage and c	ock under ro oncreting ing & Grab t	Pile 2F Pile 2F to excavate the stall RCD and	to founding 2 ne soil id excavate t steel cage ar 7 Te	g level the rock unde ad concreting sting	r rockhead k	evel to founding leve
1 rate the soil l excavate the r teel cage and c	ock under ro oncreting ing & Grab t	Pile 2F Pile 2F to excavate the stall RCD and	to founding 2 ne soil id excavate t steel cage ar 7 Te	g level the rock unde ad concreting sting	r rockhead k	evel to founding leve
1st pour for Pie	ock under ro oncreting ing & Grab t	Pile 2F Pile 2F to excavate the stall RCD and	to founding 2 ne soil id excavate t steel cage ar 7 Te	g level the rock unde ad concreting sting	r rockhéad le rface core an 	evel to founding leve d full core for bored 3 - Erection of Bridge Segme
1 rate the soil l excavate the r teel cage and c	ock under ro oncreting ing & Grab t	Pile 2Pile 2	I to founding C2 te soil id excavate t steel cage ar Te Sce Sce Sce Sce Sce Sce Sce Sc	; level he rock unde ad concreting sting nic Test, inte	r rockhéad k rface core an Stage Stage	evel to founding leve d full core for bored 3 - Erection of Brid
1 rate the soil l excavate the r teel cage and c	ock under ro oncreting ing & Grab t	Pile 2Pile 2	I to founding C2 te soil id excavate t steel cage ar Te Sce Sce Sce Sce Sce Sce Sce Sc	; level he rock unde ad concreting sting nic Test, inte	r rockhéad k rface coie an Fface coie an Stage Erect Segment be	vel to founding leve d full core for bored 3 - Erection of Bridge Segme ent erection betweer
1 rate the soil l excavate the r teel cage and c	ock under ro oncreting ing & Grab t	Pile 2Pile 2	I to founding C2 te soil id excavate t steel cage ar Te Sce Sce Sce Sce Sce Sce Sce Sc	; level he rock unde ad concreting sting nic Test, inte	r rockhéad k rface coie an Fface coie an Stage Erect Segment be	evel to founding leve d full core for bored 3 - Erection of Bridge ion of Bridge Segme tent erection betweer tween Pier 2L and P
1 rate the soil l excavate the r teel cage and c	ock under ro oncreting ing & Grab t In Pr	Pile 2Pile 2	I to founding C2 te soil id excavate t steel cage ar Te Sce Sce Sce Sce Sce Sce Sce Sc	; level he rock unde ad concreting sting nic Test, inte	r rockhead k rface core an Stage Segm r segment be g Segm	evel to founding leve d full core for bored 3 - Erection of Brid ion of Bridge Segme tent erection betweer tween Pier 2L and P
i ate the soil l excavate the r teel cage and co	ock under ro oncreting ing & Grab t in in Pr	Pile 2F Pile 2F to excavate the stall RCD ar Install	l to founding (2 ie soil id excavate to steel cage an Te Sc vite steel cage an to to to to to to to to to to	g level he rock unde ad concreting sting nic Test, inte	r rockhead k rface core an Stage Segm r segment be g Segm	evel to founding leve d full core for bored 3 - Erection of Bridge ion of Bridge Segme tent erection betweer tween Pier 2L and P

Data Date :08-Dec-21 Sheet 5of 7

	II Works within Portion II,III,IV and VI	413	135	25-Aug-21 A	27-May-22				
L Main Bridge ar oncrete Bridge	nd Marine Viaduct	413 393	135 133	25-Aug-21 A 31-Aug-21 A	27-May-22 25-May-22				
Construction of Stit	ching and Tension	132	76	30-Sep-21 A	12-Mar-22				
Top Tension and Tr S2-CB3120	ansverse Tension Top and transverse tension at NW4	70 9	14 9	02-Oct-21 A 14-Dec-21	23-Dec-21 23-Dec-21	0%		1	d Transverse Tension erse tension at NW4
S2-CB3120	Top and transverse tension at SW4 (NCE No.169, 170, 171, 172)	9	5	02-Oct-21 A	13-Dec-21	90%	_	Top and transverse tension at SW4	
Bottom Tension an		75	49	10-Nov-21 A	09-Feb-22	,070		r	
S2-CB3245	Bottom tension and external tension for NW4-3	18	18	24-Dec-21	17-Jan-22	0%	,		Bo
S2-CB3250	Bottom tension and external tension for SW4-3	18	18	30-Dec-21	20-Jan-22	0%	- -	-	
S2-CB3260	Bottom tension and external tension for NE4-5	18	0	18-Nov-21 A	02-Dec-21 A	100%	Bottom tension	and external tension for NE4-5	
S2-CB3265	Bottom tension and external tension for SE4-5	18	0	10-Nov-21 A	25-Nov-21 A	100%	Bottom tension and external	ension for SE4-5	
S2-CB3267	Bottom tension and external tension for SE3-4	16	16	08-Dec-21	28-Dec-21	0%		Bott	m tension and external tension for SE
S2-CB3320	Bottom tension and external tension for NE3-4	18	7	29-Nov-21 A	15-Dec-21	20%		Bottom tension and external ter	sion for NE3-4
S2-CB3340	Bottom tension and external tension for NE2-3	18	18	17-Jan-22	09-Feb-22	0%			
S2-CB3360	Bottom tension and external tension for SE2-3	18	18	17-Jan-22	09-Feb-22	0%			
S2-CB3370	Bottom tension and external tension for NW3-2	18	18	12-Jan-22	04-Feb-22	0%			
S2-CB3380	Bottom tension and external tension for SW3-2	18	18	12-Jan-22	04-Feb-22	0%			
Construction of Lor		104	76	30-Sep-21 A	12-Mar-22	070			
S2-CB3420	Construction of long stitching for W5-W3	27	27	21-Jan-22	24-Feb-22	0%			
S2-CB3430	Construction of long stitching for W3-W2	27	27	05-Feb-22	08-Mar-22	0%			
S2-CB3460	Construction of long stitching for E6-E7	27	0	30-Sep-21 A	25-Nov-21 A	100%	Construction of long stitching	for E6-E7	
S2-CB3480	Construction of long stitching for E7-EA	27	2	10-Nov-21 A	09-Dec-21	90%	, ·	Construction of long stitching for E7-EA	
S2-CB3500	Construction of long stitching for E4-E5	27	0	19-Nov-21 A	04-Dec-21 A	100%	Constructi	on of long stitching for E4-E5	
S2-CB3520	Construction of long stitching for E3-E4	27	17	24-Nov-21 A	29-Dec-21	35%		Co	nstruction of long stitching for E3-E4
S2-CB3540	Construction of long stitching for E2-E3	27	27	10-Feb-22	12-Mar-22	0%			
Procurement and D	livery	240	133	31-Aug-21 A	25-May-22				
S2-CB2488	Procurement and delivery of bituminous materials	240	133	31-Aug-21 A	25-May-22	75%			
Road Works and Su		115	115	27-Oct-21 A	03-May-22				
	arface Furniture at W5 - W2 Construction of planter type 1 and type 2	32 30	32 30	11-Feb-22 11-Feb-22	19-Mar-22 17-Mar-22	0%			
S2-CB4960	Construction of concrete kerb for installation of L3 parapet	20	20	25-Feb-22	19-Mar-22	0%			
Road Works and S	urface Furniture at E2 - EA	68	59	27-Oct-21 A	23-Apr-22				
S2-CB5160	Construction of planter type 1 and type 2	35	24	27-Oct-21 A	09-Mar-22	26%			
S2-CB5180	Installation of Ducting and In-situ Concreting	35	35	10-Mar-22	23-Apr-22	0%	- -		
S2-CB5210	Construction of concrete kerb for installation of L3 parapet	25	25	10-Feb-22	10-Mar-22	0%			
S2-CB5240	Installation of the L3 railing	30	30	02-Mar-22	06-Apr-22	0%			
S2-CB5260	Installation of the isolation panel	30	30	08-Mar-22	12-Apr-22	0%			
S2-CB5300	Installation of the balustrade	24	24	10-Mar-22	07-Apr-22	0%			
Fabrication and De		115	115	13-Nov-21 A	03-May-22				
S2-CB5480	Fabrication and delivery of steel post and transom for L3 parapet	60	60	08-Dec-21*	22-Feb-22	0%			
S2-CB5500	Fabrication and delivery of steel works for isolation panel	80	74	13-Nov-21 A	10-Mar-22	33%			
		80	/1						
S2-CB5520	Fabrication of PMMA panel	90	90	10-Jan-22*	03-May-22	0%			
S2-CB5520 Construction of Sig		90 31	90 31	10-Jan-22* 19-Nov-21 A	15-Jan-22	0%			
S2-CB5520 Construction of Sig Fabrication Works	n Gantries	90 31 25	90 31 25	10-Jan-22* 19-Nov-21 A 19-Nov-21 A	15-Jan-22 08-Jan-22			Fa	✓ Const ✓ Fabrication Works prication of sign gantry post
S2-CB5520 Construction of Sig Fabrication Works S2-FW1000	Fabrication of sign gantry post	90 31 25 25	90 31 25 17	10-Jan-22* 19-Nov-21 A 19-Nov-21 A 19-Nov-21 A	15-Jan-22 08-Jan-22 29-Dec-21	35%		Fa	Fabrication Works
S2-CB5520 Construction of Sig Fabrication Works S2-FW1000 S2-FW1020	n Gantries	90 31 25 25 25 20	90 31 25 17 20	10-Jan-22* 19-Nov-21 A 19-Nov-21 A 19-Nov-21 A 14-Dec-21	15-Jan-22 08-Jan-22 29-Dec-21 08-Jan-22			Fa	Fabrication Works prication of sign gantry post Fabrication of sign g
S2-CB5520 Construction of Sig Fabrication Works S2-FW1000	Fabrication of sign gantry post	90 31 25 25	90 31 25 17	10-Jan-22* 19-Nov-21 A 19-Nov-21 A 19-Nov-21 A	15-Jan-22 08-Jan-22 29-Dec-21	35%		Fa	
S2-CB5520 Construction of Sig Fabrication Works S2-FW1000 S2-FW1020 Installation Works	Gantries Fabrication of sign gantry post Fabrication of sign gantry transom	90 31 25 25 20 14	90 31 25 17 20 14	10-Jan-22* 19-Nov-21 A 19-Nov-21 A 19-Nov-21 A 14-Dec-21 30-Dec-21	15-Jan-22 08-Jan-22 29-Dec-21 08-Jan-22 15-Jan-22	35%		Fa	Fabrication Works prication of sign gantry post Fabrication of sign g Abrication of sign g Install
S2-CB5520 Construction of Sig Fabrication Works S2-FW1000 S2-FW1020 Installation Works S2-CB4530	Gantries Fabrication of sign gantry post Fabrication of sign gantry transom Installation of sign gantry post at E7-EA, E3-E4 & W3-W2	90 31 25 25 20 14 6	90 31 25 17 20 14 6	10-Jan-22* 19-Nov-21 A 19-Nov-21 A 19-Nov-21 A 14-Dec-21 30-Dec-21 30-Dec-21	15-Jan-22 08-Jan-22 29-Dec-21 08-Jan-22 15-Jan-22 06-Jan-22	35% 0%		Fa	Fabrication Works prication of sign gantry post Fabrication of sign g Install
S2-CB5520 Construction of Sig Fabrication Works S2-FW1000 S2-FW1020 Installation Works S2-CB4530 S2-CB4570	Gantries Fabrication of sign gantry post Fabrication of sign gantry transom Installation of sign gantry post at E7-EA, E3-E4 & W3-W2 Survey of ganrty on site	90 31 25 25 20 14 6 2	90 31 25 17 20 14 6 2	10-Jan-22* 19-Nov-21 A 19-Nov-21 A 19-Nov-21 A 14-Dec-21 30-Dec-21 30-Dec-21 07-Jan-22	15-Jan-22 08-Jan-22 29-Dec-21 08-Jan-22 15-Jan-22 06-Jan-22 08-Jan-22	35% 0% 0%		Fa	Fabrication Works prication of sign gantry post Fabrication of sign g Installation of sign gantr Survey of ganrty on
S2-CB5520 Construction of Sig Fabrication Works S2-FW1000 S2-FW1020 Installation Works S2-CB4530 S2-CB4570 S2-CB4570 S2-CB4610 teel Bridge Road Works and St	Gantries Fabrication of sign gantry post Fabrication of sign gantry transom Installation of sign gantry post at E7-EA, E3-E4 & W3-W2 Survey of gantry on site Installation of sign gantry transom face Furniture	90 31 25 25 20 14 6 2 2 8 8 222 133	90 31 25 17 20 14 6 2 2 8 135 115	10-Jan-22* 19-Nov-21 A 19-Nov-21 A 19-Nov-21 A 14-Dec-21 30-Dec-21 30-Dec-21 07-Jan-22 07-Jan-22 25-Aug-21 A 27-Oct-21 A	15-Jan-22 08-Jan-22 29-Dec-21 08-Jan-22 06-Jan-22 06-Jan-22 08-Jan-22 15-Jan-22 08-Jan-22 08-Jan-22 08-Jan-22 08-Jan-22 08-Jan-22 08-Jan-22 08-Jan-22 08-Jan-22	35% 0% 0%		Fa	Fabrication Works prication of sign gantry post Fabrication of sign g Installation of sign gantr Survey of ganrty on
S2-CB5520 Construction of Sig Pabrication Works S2-FW1000 S2-FW1020 Installation Works S2-CB4530 S2-CB4570 S2-CB4610	Gantries Fabrication of sign gantry post Fabrication of sign gantry transom Installation of sign gantry post at E7-EA, E3-E4 & W3-W2 Survey of gantry on site Installation of sign gantry transom face Furniture	90 31 25 25 20 14 6 2 2 8 222	90 31 25 17 20 14 6 2 8 135	10-Jan-22* 19-Nov-21 A 19-Nov-21 A 19-Nov-21 A 14-Dec-21 30-Dec-21 30-Dec-21 07-Jan-22 07-Jan-22 25-Aug-21 A	15-Jan-22 08-Jan-22 29-Dec-21 08-Jan-22 15-Jan-22 06-Jan-22 08-Jan-22 15-Jan-22 27-May-22	35% 0% 0%		Fa	Fabrication Works prication of sign gantry post Fabrication of sign g Installation of sign gantr Survey of ganrty on
S2-CB5520 Construction of Sig Fabrication Works S2-FW1000 S2-FW1020 Installation Works S2-CB4530 S2-CB4570 S2-CB4570 S2-CB4570 S2-CB4610 teel Bridge Road Works and SU Road Works and SU	Gantries Fabrication of sign gantry post Fabrication of sign gantry transom Installation of sign gantry post at E7-EA, E3-E4 & W3-W2 Survey of gantry on site Installation of sign gantry transom face Furniture urface Furniture	90 31 25 25 20 14 6 2 2 8 8 222 8 8 222 133	90 31 25 17 20 14 6 2 8 135 115 90	10-Jan-22* 19-Nov-21 A 19-Nov-21 A 19-Nov-21 A 14-Dec-21 30-Dec-21 30-Dec-21 07-Jan-22 07-Jan-22 25-Aug-21 A 27-Oct-21 A	15-Jan-22 08-Jan-22 29-Dec-21 08-Jan-22 15-Jan-22 06-Jan-22 08-Jan-22 15-Jan-22 27-May-22 27-May-22 29-Mar-22 29-Mar-22	35% 0% 0% 0%		Fa	Fabrication Works prication of sign gantry post Fabrication of sign g Installation of sign gantr Survey of ganrty on
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S2-CB5520 Construction of Sig Fabrication Works S2-FW1000 S2-FW1020 Installation Works S2-CB4530 S2-CB4570 S2-CB4570 S2-CB4570 S2-CB4570 S2-CB4570 S2-CB4570 S2-CB4570 S2-CB4570 S2-CB4570 S2-CB4570 S2-CB4570 S2-CB4570 S2-RW1070 S2-RW1071 S2-RW1073 S2-RW1074	Fabrication of sign gantry post Fabrication of sign gantry transom Installation of sign gantry post at E7-EA, E3-E4 & W3-W2 Survey of gantry on site Installation of sign gantry transom face Furniture face Furniture Sand blasting works and waterproofing for division area (CE No.194 & No.207) Installation of ducting and in-situ concreting Waterproofing for footpath Road surfacing for footpath Sandblasting and waterproofing for cycle track	90 31 25 25 20 14 6 2 2 8 222 133 108 65 25 50 15 15 20	90 31 25 17 20 14 6 2 8 135 115 90 50 25 50 15 15 20	10-Jan-22* 19-Nov-21 A 19-Nov-21 A 19-Nov-21 A 19-Nov-21 A 14-Dec-21 30-Dec-21 07-Jan-22 07-Jan-22 25-Aug-21 A 27-Oct-21 A 27-Oct-21 A 27-Oct-21 A 06-Jan-22 18-Jan-22 10-Jan-22 27-Jan-22 27-Jan-22 27-Jan-22	15-Jan-22 08-Jan-22 29-Dec-21 08-Jan-22 15-Jan-22 06-Jan-22 15-Jan-22 08-Jan-22 15-Jan-22 03-Jan-22 03-May-22 03-May-22 07-Feb-22 19-Mar-22 26-Jan-22 16-Feb-22 26-Jan-22 16-Feb-22 22-Feb-22	35% 0% 0% 0% 0% 27% 0% 0% 0%		Fa	Fabrication Works prication of sign gantry post Fabrication of sign g Instal Installation of sign gant Survey of ganrty on

23	30	06	February2022 13	20	March 2022 27 06
		— в	ottom Tension	and External Tens	ion
nsion and externa		for NW4-3			
om tension and e	xternal te	ension for SV	W4-3		
		B	ottom tension	and external tensio	n for NE2-3
				and external tensio	
				al tension for NW	
		Bouom tens	sion and extern	al tension for SW3	-2
				Con	struction of long stitching
	I				Cons
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		-			Co
		_			
				Echnicot	ion and delivious of starl n
				Fabrical	ion and delivery of steel p
f Sign Gantries					
nsom					
rks E7-EA, E3-E4 &	W3-W2				
sign gantry transc	m				
					roofing for division area (0
		Instal	auon oi pre-ca	ist planter type 1 ar	iu type 2
Waterpro	ofing for	footpath			
1			R	oad surfacing for f	ootpath
				Sandbla	sting and waterproofing for
		evision		Checked	Approved
3MRP	(Dec 2	1-Mar2	22)		

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C2 DW/120 Installation of stall plate for 1.2 months		21	02 Nor 21 4	04 1 22	Complete	21 28	26 12 19 26	02 09 Installation of steel plate fo
S2-RW1130 Installation of steel plate for L3 parapet	50	21	02-Nov-21 A	04-Jan-22	75%			instantation of steel plate to
S2-RW1140 Installation of isolation steel post	45	45	15-Dec-21	11-Feb-22	0%			
S2-RW1160 Installation of L3 railing	60	60	11-Jan-22	24-Mar-22	0%			
Fabrication and Delivery Works S2-CB5540 Fabrication and delivery of steel post and transom for L3 parapet	115 60	115 60	12-Nov-21 A 08-Dec-21*	03-May-22 22-Feb-22	0%			
S2-CB5560 Fabrication and delivery of steel works for isolation panel	60	40	12-Nov-21 A	26-Jan-22	0%			
S2-CB5580 Fabrication of PMMA panel	90	90	10-Jan-22*	03-May-22	0%			
Welding & Painting Works	222	135	25-Aug-21 A	27-May-22				:
Preparation Works	90	39	06-Oct-21 A	25-Jan-22				
Removal of the Temporary Stiffening Supports inside the Steel Box S2-SB2020 Removal of the temporary stiffening supports inside the steel box	30 30	0	08-Nov-21 A 08-Nov-21 A	09-Dec-21 A 09-Dec-21 A	100%		 Removal of the Temporary Stiffening Supp Removal of the temporary stiffening support 	
Activation of the Pendulum Bearing	6	6	19-Jan-22	25-Jan-22				
S2-SB1520 Activation of permanent bearing and removal of temporary jacks from the Pier W1 (after completion of tr	ansition section) 6	6	19-Jan-22	25-Jan-22	0%			
5% NDT (Eddy Current) S2-SB1560 Arch ribs	45 45	10 10	06-Oct-21 A 06-Oct-21 A	18-Dec-21 18-Dec-21	80%		5% NDT (Eddy Current Arch ribs	
			23-Nov-21 A		8078		1.0011105	
Painting of the Ring Weld S2-SB2030 Painting of the west side span ring weld (outside)	141 20	135 14	01-Dec-21 A	27-May-22 23-Dec-21	25%		Painting of the	west side span ring weld (outside)
S2-SB2040 Painting of the west side span ring weld (inside)	7	7	22-Dec-21	31-Dec-21	0%			Painting of the west side span ring
S2-SB2050 Painting of the east side span ring weld (outside)	20	11	23-Nov-21 A	20-Dec-21	33%		Painting of the east s	ide span ring weld (outside)
S2-SB2060 Painting of the east side span ring weld (inside)	7	15	06-Dec-21 A	24-Dec-21	0%	-	Painting of t	he east side span ring weld (inside)
S2-SB2080 Top coating of the steel deck	98	98	24-Jan-22	27-May-22	0%			/
Removal of the Temporary Supports at W1 & E1	18	18	24 July 22 28-Dec-21	18-Jan-22	0.0			
S2-SB2220 Removal of the temporary supports at W1	10	10	03-Jan-22	13-Jan-22	0%			Remov
S2-SB2240 Removal of the temporary supports at W2	1	1	13-Jan-22	13-Jan-22	0%			Remov
S2-SB2260 Removal of the temporary supports at E1	10	10	28-Dec-21	08-Jan-22	0%			Removal of the te
S2-SB2280 Removal of the temporary supports at E2	1	1	18-Jan-22	18-Jan-22	0%			
Welding Works	108	0	25-Aug-21 A	03-Dec-21 A		▼ Weldin		
Secondary Deck Facilities Welding S2-SB2120 Secondary deck facilities welding	42 42	0	01-Nov-21 A 01-Nov-21 A	03-Dec-21 A 03-Dec-21 A	100%		ary Deck Facilities Welding ary deck facilities welding	
Repair of the Welding Joint Cracks at N19	42	0	20-Nov-21 A	23-Nov-21 A	10078	 Repair of the Welding Joint 	-	
S2-SB2180 Welding repair and re-coating	12	0	20-Nov-21 A	23-Nov-21 A	100%	Welding repair and re-coatin		
S2-SB2200 Completion of Repair of the welding joint cracks at N19	0	0		23-Nov-21 A	100%	• Completion of Repair of the	welding joint cracks at N19	
Welding of the Joint between Main Span and the East Side Span	77	0	25-Aug-21 A	25-Nov-21 A			ween Main Span and the East Side Span	
S2-SB1760 Welding of the in-fill of ring weld (incl. NDT)	60	0	25-Aug-21 A	25-Nov-21 A	100%	Welding of the in-fill of	ring weld (incl. NDT)	
S2-SB1780 Completion of the joint of east side span	0	0		25-Nov-21 A	100%	 Completion of the joint 	of east side span	
Construction of Steel-Concrete Transition Zone Construction of the west side transition	87 87	32 28	29-Sep-21 A 29-Sep-21 A	17-Jan-22 12-Jan-22				Construct
S2-CT1030 Welding of the box out on steel deck (bottom)	36	0	29-Sep-21 A 20-Oct-21 A	30-Nov-21 A	100%	Welding of th	e box out on steel deck (bottom)	• Consuuc
S2-CT1040 Concreting of the transition section	15	10	29-Sep-21 A	18-Dec-21	81%		Concreting of the transit	on section
S2-CT1060 Welding of the box out on steel deck (top)	10	10	20-Dec-21	03-Jan-22	0%			Welding of the box out on s
S2-CT1080 Stressing of the PT bar and tendons	7	7	04-Jan-22	11-Jan-22	0%			Stressing of
S2-CT1100 Removal of the temporary jacks from the Pier W2	1	1	12-Jan-22	12-Jan-22	0%			Removal
Construction of the east side transition	63	32	02-Nov-21 A	17-Jan-22				ļ,
S2-CT1150 Welding of the box out on steel deck (bottom)	36	0	02-Nov-21 A	02-Dec-21 A	100%	Welding	f the box out on steel deck (bottom)	
S2-CT1160 Concreting of the transition section	15	14	02-Nov-21 A	23-Dec-21	30%		Concreting of	the transition section
S2-CT1180 Welding of the box out on steel deck (top)	10	10	24-Dec-21	07-Jan-22	0%			Welding of the box
S2-CT1200 Stressing of the PT bar and tendons	7	7	08-Jan-22	15-Jan-22	0%			Str
S2-CT1220 Removal of the temporary jacks from the Pier E2	1	1	17-Jan-22	17-Jan-22	0%			•
Assocaited, E&M Works for CBL Main Bridge and Marine Viaduct	149	114	30-Aug-21 A	25-May-22				
UBG and AIC	53	18	19-Nov-21 A	22-Jan-22				
UBG UBG of the main span	53 46	18 18	19-Nov-21 A 27-Nov-21 A	22-Jan-22 22-Jan-22				
S2-EM1000 Assembly of the working platform	4	0	27-Nov-21 A	02-Dec-21 A	100%	Assembly	of the working platform	
S2-EM1020 Installation of the remaining rails	12	10	03-Dec-21 A	13-Jan-22	35%			Installa
S2-EM1040 Replacement of the cables and cable tray	7	7	03-Jan-22	10-Jan-22	0%			Replacement
S2-EM1060 Installation of the control system	3	3	11-Jan-22	13-Jan-22	0%			Installa
S2-EM1080 Installation of the earthing	6	6	14-Jan-22	20-Jan-22	0%			
S2-EM1100 Removal of the working platform	2	2	21-Jan-22	22-Jan-22	0%			
UBG of the west side span S2-EM1140 Installation of the remaining rails	<u>49</u> 3	4 0	19-Nov-21 A 19-Nov-21 A	18-Ian-22 25-Nov-21 A	100%	Installation of the remai	ning rails	
S2-EM1140 Installation of the control system	2		14-Jan-22	15-Jan-22	10070		~	💻 Inst
		2			0%			
S2-EM1180 Installation of the earthing UBG of the east side span	2	2	17-Jan-22	18-Jan-22	0%			
vuu viinen daal daar opean	4	4	19-Jan-22	22-Jan-22		L :		:
Remaining Level of Effort Critical Remaining Work								
								08-Dec-3
Actual Work	- TI	- N /	-4L D 111				: 2021 - March 202	100-Dec-

February2022 23 30 06 13	20	March 2022 27 06 3
et	-	
Installation o	of isolation steel post	
	Fabrication	and delivery of steel post
Fabrication and delivery of steel works for iso	lation panel	
Preparation Works		
 Activation of the Pendulum Bearing Activation of permanent bearing and removal o 	f temporary jacks fro	n the Pier W1 (after com
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le)		
l of the Temporary Supports at W1 & E1		
nporary supports at W1		
nporary supports at W2		
pports at E1 l of the temporary supports at E2		
tor the temporary supports at 12		
on of Steel-Concrete Transition Zone vest side transition		
(qc		
and tendons		
oorary jacks from the Pier W2		
on of the east side transition		
deck (top)		
e PT bar and tendons		
of the temporary jacks from the Pier E2		
UBG and AIC		
UBG UBG of the main span		
emaining rails		
es and cable tray		
ontrol system		
allation of the earthing		
Removal of the working platform		
the west side span		
he control system		
on of the earthing		
UBG of the east side span		
Revision	Checked	Approved
3MRP (Dec 21 - Mar 22)		l

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

ivity D	ActivityName	Original Duration	Remaining Duration	Start	Finish	Physical %				Decer	mber 2021				January 2022	
						Complete	21	28	0	5 12	19	26	02	09	16	ò
S2-EM124	0 Installation of the control system	2	2	19-Jan-22	20-Jan-22	0%										Installa
S2-EM126	0 Installation of the earthing	2	2	21-Jan-22	22-Jan-22	0%										💻 In
Installation of Oth	er Systems	118	100	30-Aug-21 A	25-May-22								:			
S2-EM1360	SHMS installation	60	25	30-Aug-21 A	19-Feb-22	25%									•	
S2-EM1380	Dehumidification system installaion in the stay cables	10	10	19-Jan-22	29-Jan-22	0%										
S2-EM1400	Commission and testing of the dehumidification system	90	90	31-Jan-22	25-May-22	0%										
Section 3 of the Wo	orks-Comprises All of the Landscape Works	100	100	17-Feb-22	21-Jun-22											
S3-LW2000	Landscape works for CBL bridge	100	100	17-Feb-22	21-Jun-22	0%										
Section 5 of the Wo	orks-All Works within Portion V (CBL E&M Plantroom)	474	127	30-Jul-20 A	18-May-22											
Remaining Work		410	127	30-Jul-20 A	18-May-22											
S5-PR2200	Water works, pluming and drainage works	60	9	30-Jul-20 A	17-Dec-21	92%					Water works,	pluming and	drainage wor	rks		
S5-PR2285	Installation of SCADA and connect to dehumification system	63	63	08-Dec-21	25-Feb-22	0%										
S5-PR2290	Cable Installation Work After Access Permitted (Portion VI)	63	63	28-Feb-22	18-May-22	0%										
Major Services Sy	stem	425	78	28-Sep-20 A	15-Mar-22								<u> </u>			
Electrical System		303	78	02-Oct-20 A	15-Mar-22											
Generator Room		303	78	02-Oct-20 A	15-Mar-22											
S5-PR2500	Generator Installation (Including E&M Work)	90	45	02-Oct-20 A	04-Feb-22	85%							-			
S5-PR2540	Generator SAT	3	3	05-Feb-22	08-Feb-22	0%										
S5-PR2545	Testing and Commissioning	30	30	09-Feb-22	15-Mar-22	0%										
MVAC System		402	55	28-Sep-20 A	16-Feb-22											
Installation of MVA	AC System	402	55	28-Sep-20 A	16-Feb-22								<u> </u>			
S5-PR2840	MVAC Installation Work	70	37	28-Sep-20 A	22-Jan-22	86%										M
S5-PR2900	MVAC Testing and Commisioning	18	18	24-Jan-22	16-Feb-22	0%										I
S5-PR2920	Accomplish of MVAC Installation	0	0		16-Feb-22	0%										

Remaining Level of Effort
Actual Work

Remaining Work

Critical Remaining Work

♦ ♦ Milestone

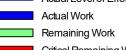
Three Month Rolling Programme (December 2021 - March 2022)

23	February2022 March 2022 30 06 13 20 27 06 3
allation of the cor	trol system
Installation of the	earthing
	SHMS installation
De	humidification system installaion in the stay cables
-	
	Installation of SCADA and cor
	Generator Installation (Including E&M Work)
	Generator SAT
<u></u>	
	✓ MVAC System ✓ Installation of MVAC System
MVAC Installatio	
	MVAC Testing and Commisioning
	 Accomplish of MVAC Installation

Revision	Checked	Approved
3MRP (Dec 21 - Mar 22)		

Contract 2

	Activity Name	Original Duration D	Actual Remain uration Dura	ning Calendar Start	Finish Late Start	Late Finish	Total TRA Float	Complete					1)22							2023		
/2017/08 Programme	Lindate (Nov 2021)	1399		504 31-Oct-18 A	25-Jul-23 19-Jul-21	30-Sep-23	58	Oct	t Nov De	c Jan	Feb	Mar Apr	May	Jun	Jul	Aug Sep	Oct	Nov L	Jec Jan	Feb N	Mar Apr	r May	Jun	Jul
Project Key Dates		1399	488	484 31-Oct-18 A	25-Jul-23 27-Aug-21	30-Sep-23	58				_						_							_
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			-																	
POS1010	Possession of Portion I	0	0	0 017/08(7 02-Jul-19 A	27-Aug-21		0	100%																
POS1020	Possession of Portion II	0	0	0 017/08(7 01-Nov-18 A	27-Aug-21		0	100%																
POS1030	Possession of Portion III	0	0	0 017/08(7 01-Nov-18 A	27-Aug-21		0	100%																
POS1040	Possession of Portion IV	0	0	0 017/08(7 01-Nov-18 A	27-Aug-21		0	100%																
	er Revised Contract Key Dates under CEs	1070		376 017/08(7 25-Jun-20 A			123																30-May-23	:3, F
PC1010	Planned Completion of Key Date 1	0	0	0 017/08(7	25-Jun-20	30-Sep-23	0	100%																
PC1020	Planned Completion of Key Date 2	0	0	0 017/08(7	19-May-22	18-Mar-22	-62 0	0%					÷₽			of Key Date 2								
PC1030 PC1040	Planned Completion of Key Date 3 Planned Completion of Sectional Completion S1	0	0	0 017/08(7 0 017/08(7	29-Jun-22 24-Jun-22	14-Apr-22 30-Mar-22	-76 0 -86 0	0%								l Completion of Completion of \$		plation S1						
PC1040	Planned Completion of Sectional Completion S1 Planned Completion of Sectional Completion S2	0	0	0 017/08(7	29-Jun-22	14-Apr-22	-76 0	0%								Completion of		· ·						
PC1060	Planned Completion of Sectional Completion S2	0	0	0 017/08(7	30-May-22	14-Apr-22	-46 0	0%								tion of Sectiona	- i - i		Ζ,					
PC1070	Planned Completion of Sectional Completion S4	0	0	0 017/08(7	30-May-23	14-Apr-23	-46 0	0%				 		(a compio								Planned (Con
PC1080	Planned Completion of Sectional Completion S5	0	0	0 017/08(7	18-Jun-22	14-Apr-22	-64 0	0%						P	anned Co	mpletion of Se	ctional Compl	etion \$5,						
Planned Completion und	er Possible Contract Key Dates under CEs	1070	0	376 017/08(7 25-Jun-20 A	30-May-23 18-Mar-22	30-Sep-23	123	_		-								-					30-May-23	23, P
PCP1010	Planned Completion of Key Date 1	0	0	0 017/08(7	25-Jun-20	30-Sep-23	0	100%		1														
PCP1020	Planned Completion of Key Date 2	0	0	0 017/08(7	19-May-22	18-Mar-22	-62 0	0%						Planned C	ompletion	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%			1					Planned Comp								
PCP1040	Planned Completion of Sectional Completion S1	0	0	0 017/08(7	24-Jun-22	04-Apr-22	-82 0	0%		-		▎▃╫▃	44	_ 		Completion of	: :							
PCP1050	Planned Completion of Sectional Completion S2	0	0	0 017/08(7	25-Jul-22	25-Jul-22	-1 0	0%							· • •	Planned Comp			letion S2,					
PCP1060	Planned Completion of Sectional Completion S3	0	0	0 017/08(7	30-May-22	25-Jul-22	56 0	0%		-				Planne	a Comple	tion of Section	al Completion	S3,						~
PCP1070 PCP1080	Planned Completion of Sectional Completion S4	0	0	0 017/08(7	30-May-23 18-Jun-22	25-Jul-23 25-Jul-22	56 0 37 0	0%				↓↓ - ↓				molotion -f.C	ational C	otion or					Planned (00
-	Planned Completion of Sectional Completion S5	1024	0	0 017/08(7 392 017/08(7 25-Jun-20 A	18-Jun-22 14-Apr-23 18-Mar-22	25-Jul-22 30-Sep-23	37 0	0%						- 1	anned Co	ompletion of Se	cupnal Compl	elion So,		_		14-Apr-28, F	Powieced Cou	nte
CD1010	es and Sectional Completion Dates under CEs S1 - Completion of All Works within Portion I	0	0	0 017/08(7	30-Mar-22*	30-Sep-23	0 0	0%					Completie	n of All Wo	ko uithin	Portion						14-Api-20, M		iu
CD1010	S1 - 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%									₩ & N/andman	nainderof	the Works r	not covered by	v other Sect	ione		
CD1030	S3 - Completion of All Landscape Softworks	0	0	0 017/08(7	14-Apr-22*	14-Apr-22	0 0	0%								pe Softworks.				bi covered by		0113,		
CD1040	S4 - Completion of Establishement Works	0	0	0 017/08(7	14-Apr-23*	14-Apr-22	0 0	0%			· · · · · · · · · · · · · · · · · · ·				Lanusua						·····	S4 - Comple	tion of Est:	tab
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%					S5 - Comp	letion of P	reservatio	n and Protectio	on of Exisitna '	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, III & IV for TCSS of all E&	0	0	0 017/08(7	18-Mar-22*	18-Mar-22	0 0	0%				➡ Key Dat	e 2 - Comp	pletion of V	Vorks with	in Portion I, II, III	& IV for TCSS	of all É&M	/ Works, Stre	et Lighting, T8	&C.			
KD0003	Key Date 3 - Completion of All Works within Portion I, II, III & IV	0	0	0 017/08(7	14-Apr-22*	14-Apr-22	0 0	0%				🛶	Key Date 3	3 - Comple	tion of All	Works within P	ortion I, II, III &	IV,						
_	ectional Completion Dates under CEs	1126	0	494 017/08(7 25-Jun-20 A	25-Jul-23 18-Mar-22	30-Sep-23	68							<u></u>										
KDP0001	Key Date 1 - Completion of Eastern Abutment in Portion II	0	0	0 017/08(7	25-Jun-20	30-Sep-23	0	100%													-			
KDP0002	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%				Key Dat	e 2 - Comp	pletion of V	Norks with	in Portion I, II, III	& V for TCSS	of all E&M	/ Works, Stre	et Lighting, T8	&С,			
KDP0003	Key Date 3 - Completion of All Works within Portion I, II, III & IV	0	0	0 017/08(7	25-Jul-22*	25-Jul-22	0 0	0%								Key Date 3 - Co	ompletion of A	ll Works wi	ithin Portion	I, II, III & IV,				
SCP0001	S1 - Completion of All Works within Portion I	0	0	0 017/08(7	04-Apr-22*	04-Apr-22	0 0	0%		1		4 S1	- Completi	on of All V	Vorks withi	n Portion I,								
SCP0002	S2 - Completion of All Works within Portion II, III & N and remainder of the W	0	0	0 017/08(7	25-Jul-22*	25-Jul-22	0 0	0%								S2 - Completio	n of All Works	within Port	tion II, III & IV	and remainde	r of the Wo	rks not cover	ed by othe	эr
SCP0003	S3 - Completion of All Landscape Softworks	0	0	0 017/08(7	25-Jul-22*	25-Jul-22	0 0	0%							-	S3 - Completio	n of All Landso	ape Softw	vorks,		-			
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 - Completio		ion and Pro	otection of E	xisitng Trees,				
Access requirement for A		/5	0	75 30-Nov-21	04-Mar-22 15-Dec-21	18-Mar-22	12					04-Mar-22, A	ccess requ	urement fo	or Acceler	ation d TCSS installa								
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%							r Eð Man	d TCSS installa	itio¦n,							
HO1020	Provision of vehicular access to the contractor of C1	0	0	0 017/08(6	30-Nov-21 25-Mar-22 19-Jul-21	15-Dec-21	13 554	0%		vision of v	enicular acce	ss to the cont			than Stat	mont Mataria	Cthemicologie							
	tatement, Material Submissions	1242		138 017/08(7 31-Oct-18 A		30-Sep-23										ement, Materia	Submissions							
Contractor's Design		1223	850	63 017/08(7 12-Jan-19 A			62					25-Ma	r-22, Conti	ractors De	sign									
AIP Submission	Alternative Designs - Prepare AIP Submission		208	0 017/08(7 12-Jan-19 A			0	100%							····									
 AD1010 AD1020 	Alternative Designs - Prepare AIP Submission Alternative Designs - Review and Comment of AIP by PM	14 21	33 19	0 017/08(7 12-Jan-19 A 0 017/08(7 14-Feb-19 A		-	0	100%																
AD1020	Alternative Designs - Review and Comment of AIP by PM Alternative Designs - Review and Comment of AIP by HyD	21	66	0 017/08(7 05-Mar-19 A	-	-	0	100%		-						-					-			
AD1190	Alternative Designs - Prepare AIP Submission (Rev.A)	14	33	0 017/08(7 10-May-19 A	, ,	-	0	100%		1														
AD1200	Alternative Designs - Review and Comment of AIP by PM	21	24	0 017/08(7 12-Jun-19 A			0	100%		1														
AD1210	Alternative Designs - Review and Comment of AIP by HyD	21	33	0 017/08(7 06-Jul-19 A	07-Aug-1§ 27-Aug-21	-	0	100%																
DDA Submission		381	392	0 017/08(7 29-Jan-19 A																				
Elevated Deck and U-t		220	200	0 017/08(7 29-Jan-19 A	16-Aug-1! 27-Aug-21	27-Aug-21																		
aD1030	Alternative Designs - Prepare DDA Submission to Relevant Authorities (Eleva	21	50	0 017/08(7 29-Jan-19 A	19-Mar-19 27-Aug-21	27-Aug-21	0	100%		1														
😑 AD1035	Alternative Designs - Review and Comment of DDA (Elevated Deck and U-tro	7	1	0 017/08(7 20-Mar-19 A			0	100%																
AD1036	Alternative Designs - Prepare DDA Submission (Elevated Deck and U-trough	16	20	0 017/08(7 21-Mar-19 A		-	0	100%		-														
AD1037	Alternative Designs - Review and Comment of DDA Submission (RevA)	7	1	0 017/08(7 09-Apr-19A		-	0	100%		-														
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	-	0	100%		-											-			
AD1039	Alternative Designs - Review and Acceptance of DDA Submission (Rev.B)	7	120	0 017/08(7 18-Apr-19 A			0	100%		-														
Response to CEDD	- Port Works Alternative Designs - Review and Comment of DDA (ED and UT) (21D for CE	84 21	120 56	0 017/08(7 19-Apr-19A 0 017/08(7 19-Apr-19A	16-Aug-1 27-Aug-21 13-Jun-19 27-Aug-21		0	100%																
AD1250	Alternative Designs - Prepare DDA Submission (ED & UT, Response to CEDI	21	11	0 017/08(7 14-Jun-19 A			0	100%																
AD1230	Alternative Designs - Review and Comment of DDA (ED&UT, 21D from CEDE	21	25	0 017/08(7 25-Jun-19 A			0	100%		-														
AD1300	Alternative Designs - Prepare DDA Submission (ED&UT, Reponse to CEDD)	21	6	0 017/08(7 20-Jul-19 A	25-Jul-19, 27-Aug-21		0	100%		-														
AD1310	Alternative Designs - Review and Acceptance of DDA (ED&UT, 21D from CEI	21	22	0 017/08(7 26-Jul-19 A	16-Aug-1§ 27-Aug-21		0	100%		-														
Response to HyD - I		113	104	0 017/08(7 19-Apr-19A																				
aD1040	Alternative Designs - Review and Comment of DDA (ED and UT) (21D for Hyl	21	22	0 017/08(7 19-Apr-19A	10-May-1§ 27-Aug-21		0	100%		1		1												
 Actual Level of Et 	ffort Milestone				Contract No.:	NE/2017/	08							Da	ate			Revisio	n		Ch	lecked	Арр	or
		T #0 +7	日間	~									ſ	08-Mai	r-21	Monthly F	Programm	e Upda	te (Mar 2	021)	TL	Ţ	StL	
	summary / TA	工程报	展者		ross Bay Link, T	seung Kw	van O						ŀ	00 14-	101	Manthur	rearemm	I Indat	to (May 2	001)	CkT		StL	_
Actual Work					•	0								08-IVIA	V-Z I		logiamin	e Obcai	ie (iviav Z	0211				
 Actual Work Remaining Work 		Ingineer		R	Road D9 and Ass	0	orks				1	Kir		08-May	y-21 21	Monthy F	Programm		. ,	,	CKT		StL	_







	Activity Name		Actual Remaini Duration Durati	ng Calendar Start on	Finish Late Start	Late Finish Total TI Float	RA Activity % Complete Oct	Nov	Doo	Jan	Feb N	1ar Api	May	Ju	2022 n J	JI A	J Sep	Oct	Nov	Dec .	Jan Feb	Mar Ap	2023 or May	Jun Jul
NCE130	NCE130 - Extra Length of PBSH at Portion I	0	0	0 017/08(7 11-Sep-20 A	30-Sep-23	0	· 00		Dec	Jan	Feb N	iar Apr	IVIAY	Ju	n J	II Aug	sep	Uci	INOV	Dec	Jan Feb	iviar Ap	i iviay	Jun Jui
NCE131	NCE131 - Extra Length of PBSH at Portion III	0	0	0 017/08(7 11-Sep-20 A	30-Sep-23	0	100%	· <mark>↓ · ↓</mark> · · · ↓ ·																
NCE132	NCE132 - Additional Works for Left-in Steel Casing for PBSH at Cycle Track I	0	0	0 017/08(7 11-Sep-20 A	30-Sep-23	0	100% 020,	11-Sep 20	A									-						
NCE133	NCE133 - Additional Works for Left-in Steel Casing for PBSH at Lift and Stail	0	0	0 017/08(7 11-Sep-20 A	30-Sep-23	0	100% 020, 1										-							
	-	0	0	· · ·	· ·	0	100 % 120, 1		1															
NCE134	NCE134 - Additional Works for Left-in Steel Casing for PBSH at Wan O Road	-	-	0 017/08(7 11-Sep-20 A	30-Sep-23	-												1						
NCE135	NCE135 - Additional Point Load Test for Proof Drill Hole no. PC9,10-PD1	0	-	0 017/08(7 16-Sep-20 A	30-Sep-23	0	100%																	
NCE136	NCE136 - Inclement Weather for the Period of 9 July 2020 to 8 August 2020	0	-	0 017/08(7 16-Sep-20 A	30-Sep-23	0	100%				1	-				-	-	1						
NCE137	NCE137 - Special Arrangement for Concrete Testing Services from the Publi	0		0 017/08(7 08-Oct-20 A	30-Sep-23	0	100% 0 A										1	1						
NCE138	NCE138 - Inclement Weather for the Period of 9 August 2020 to 8 Septemb	0	0	0 017/08(7 16-Oct-20 A	30-Sep-23	0	100%										1							
NCE139	NCE139 - Works affected by the Tropical Cyclone Warning Signal No. No. 8	0	0	0 017/08(7 16-Oct-20 A	30-Sep-23	0	100% 16-Oc					-				1	1	1						
NCE140	NCE140 - Uncharted Steel Materials Found at Pre-Bored Socketed H-Pile Nc	0	0	0 017/08(7 28-Oct-20 A	30-Sep-23	0	100% ad, 2	8-Cct-2CA									1	-						
NCE141	NCE141 - Uncharted Steel Materials Found at Pre-Bored Socketed H-Pile Nc	0	0	0 017/08(7 28-Oct-20 A	30-Sep-23	0	100% ad, 2	8-Cct-2CA																
NCE142	NCE142 - Extra Length of Pre-Bored Socketed H-Piles at Lift and Staircase	0	0	0 017/08(7 28-Oct-20 A	30-Sep-23	0	100%																	
NCE143	NCE143 - Additional Works for Left-in Steel Casing for 610mm PBSH at Lift ;	0	0	0 017/08(7 28-Oct-20 A	30-Sep-23	0	100% 20, 28	3 Oct-20 A				-				-		1						
NCE144	NCE144 - Additional Works for Left-in Steel Casing for 610mm PBSH at War	0	0	0 017/08(7 28-Oct-20 A	30-Sep-23	0	100% 8-Oct																	
NCE145	NCE145 - Works affected by the Tropical Cyclone Warning Signal No. No. 8 '	0	-	0 017/08(7 30-Oct-20 A	30-Sep-23	0	100% 2020																	
		0	-					, 37-04- 2	۳ ۲							····-				÷			 <mark>-</mark>	
NCE146	NCE146 - Inclement Weather for the Period of 9 September 2020 to 8 Octol	-	-	0 017/08(7 05-Nov-20 A	30-Sep-23	0																		
NCE148	NCE148 - Additional Works for Left-in Steel Casing for 610mm PBSH at War	0		0 017/08(7 24-Nov-20 A	30-Sep-23	0	100% 202.0,		D A								1	1						
NCE149	NCE149 - Extra Length of Pre-Bored Socketed H-Piles at Wan O Road in Pc	0	-	0 017/08(7 25-Nov-20 A	30-Sep-23	0																		
NCE150	NCE150 - Inclement Weather for the Period of 9 October 2020 to 8 Novemb	0	0	0 017/08(7 08-Dec-20 A	30-Sep-23	0	100% Dec-2	₽4				1												
NCE151	NCE151 - Additional Works for Left-in Steel Casing for 610mm PBSH at War	0	0	0 017/08(7 09-Feb-21 A	30-Sep-23	0	100% at Wa	🛊 🌢 Rolad	in Nov 2	020, 09-Fet	5-21 A							÷						
NCE152	NCE152 - Unexpected Obstruction to Manhole no. SMH011 at Road D9 in P	0	0	0 017/08(7 07-Jan-21 A	30-Sep-23	0	100% on III,	07 Jan 21	À		1													
NCE153	NCE153 - Extra Works for Carry Out Laboratory Testings for Gully Formers up	0	0	0 017/08(7 07-Jan-21 A	30-Sep-23	0				21 A														
NCE154	NCE154 - Unexpected Obstruction to Manhole no. SMH012 at Road D9 in P	0	-	0 017/08(7 18-Jan-21 A	30-Sep-23	0	100% ortion	1 1				-												
NCE155		0	-		· ·	0	100% ates			18-Jan-21 A		-						1						
•	NCE155 - Works affected by COVID-19 - Additional Cost for Supply of Aggree	-	-	0 017/08(7 18-Jan-21 A	30-Sep-23		r	<u>ייווי דווי</u>		-Jan-21 A	`							-						
NCE156	NCE156 - Movement Joint Construction at 2nd Portion of Abutment 2B	0	-	0 017/08(7 18-Jan-21 A	30-Sep-23	0	100% an-2													÷				
NCE157	NCE157 - Delay in Backfilling Works along At-Grade Road due to Repeated	0	-	0 017/08(7 18-Jan-21 A	30-Sep-23	0	100% No SF			eral Fill, 18-J	1.1													
NCE158	NCE158 - Conflict between Existing Manhole No. SMH4046896 and Pile Caj	0	0	0 017/08(7 18-Jan-21 A	30-Sep-23	0	100% No.										1							
NCE159	NCE159 - Delay in Using Imported General Fill from ND/2018/01 Due to Una	0	0	0 017/08(7 20-Jan-21 A	30-Sep-23	0	100% ivailal	belīes Re	esult of S	ulphate Cor	ntent, þ20-J	lan-21 A												
NCE160	NCE160 - Additional Point Load Test for Proof Drill Hole no. PD-1 at PC77	0	0	0 017/08(7 05-Feb-21 A	30-Sep-23	0	100% 77, 0	5 Feb-21A																
NCE161	NCE161 - Additional Material Testing for Steel Works of Semi-Enclosure Nois	0	0	0 017/08(7 01-Mar-21 A	30-Sep-23	0	100% closu		arriers at	fter Hot Ben	d Treatme	nt, 01-Mar-	21A			-		-				1		
NCE162	NCE162- Compulsory Valid Negative COVID-19 Test Result for Entry of Cons	0	0	0 017/08(7 05-Mar-21 A	30-Sep-23	0	100% Entry													++				+
		0	-			0	100% Linuy																	
NCE163	NCE163 - Revision of Spacing of Movement Joints for Semi-Enclosure Noise			0 017/08(6 19-Mar-21 A	30-Sep-23					r at Elevate	a Deck, 19	9-IVIAI7-21 A						1						
NCE164	NCE164 - Inclement Weather Period of 9 Feb 2021 to 8 March 2021	0	0	0 017/08(6 29-Mar-21 A	30-Sep-23		100% Marc									1	1	1						
NCE165	NCE165 - Unexpected CLP Power Cables at XYZ Junction near Manhole no	0	0	0 017/08(6 08-Apr-21 A	30-Sep-23		100% nction	n near Man	hole no.	SMH009, 0	8-Apr-21 A	A						1						
NCE166	NCE166 - Delay in Procurement of Watermain Pipes due to Revised Waterm	0	0	0 017/08(6 08-Apr-21 A	30-Sep-23		100% due t	k Flevised;	Waterm	ain Layout a	and Lonitu	dinal Profile	, 08-Apr	21 A				1						
NCE167	NCE167 - Ground Settlement Issue at Portion I	0	0	0 017/08(6 08-Apr-21 A	30-Sep-23		100% pr-21																	
NCE168	NCE168 - Additional Coating fo Sub-Frame of the Semi-Enclosure Noise Bar	0	0	0 017/08(6 19-Apr-21 A	30-Sep-23		100% Sem	i Enclosure	e Noise E	arriers, 19-/	Apr-21 A							1						
NCE169	NCE169 - Lighting works for Traffic Sign	0	0	0 017/08(6 29-Apr-21 A	30-Sep-23		100% r-21/					1				-		1						
NCE170	NCE170 - Revised Landscape Softworks and Hardworks	0	0	0 017/08(6 30-Apr-21 A	30-Sep-23		100% Hardv		21 4									1						
		0	-	· ·			100% Labo					- 00 0					-							
NCE171	NCE171 - Extra Works for Carry Out Laboratory Testings for Precast Concrete		<u> </u>	0 017/08(6 03-Jun-21 A	30-Sep-23					Precast Con			and the second			00.14				÷				4
NCE172	NCE172 - Extra Works for Carry Out Laboratory testings for Impact Resistant	0	-	0 017/08(6 26-May-21 A	30-Sep-23		100% abora	1 1 1 1		1	11		version	est of u	VGPip	es, 26-May-	-21 ₁ A	1						
NCE173	NCE173 - Electric Suspension for Semi-Enclosure Noise Barrier Factory	0	0	0 017/08(6 28-Jun-21 A	30-Sep-23		100% n for				11						1	1					1	
NCE174	NCE174 - Inclement Weather for the Period of 9 May 2021 to 8 June 2021	0	0	0 017/08(6 29-Jun-21 A	30-Sep-23		100% r for t		S 11 - 1			l, 29-Jun-21	Α				1	1						
Early Warning (EW)		860	653	0 10-Dec-18 A	08-Nov-21 29-Sep-23	30-Sep-23 562	_	C OB N	ov 21, E	arly Warning) (EV/)						-	1						
EW001	Temporary Discharges from LOHAS Park Development MTRC Contractors In	0	0	0 017/08(7	10-Dec-18	30-Sep-23 0	100%											1						
EW002	Construction Debris and Domestic Waste Left Behind by MTRC's Contractors	0	0	0 017/08(7	10-Dec-18	30-Sep-23 0		•			+									+				+
EW002	Maintenance of EVA at Portion II and II for MTRC's Depot along Road D9	0	0	0 017/08(7	10-Dec-18	30-Sep-23 0	100%																	
		0	0	•												-		1						
EW004	Diversion of Existing Fire Service Main along D9 Road upon Possession of P	0		0 017/08(7	10-Dec-18	30-Sep-23 0	100%				1							1						
EW005	Severe Cracks and Abnormal Movement Observed on the Existing Road D9	0	-	0 017/08(7	14-Jan-19	30-Sep-23 0	100%											-						
EW006	Uncharted Utilities (Hong Kong Broadband and CLP) identified at Road D9, 1	0	0	0 017/08(7	17-Jan-19	30-Sep-23 0	100%																	
EW007	Additional Works for Determination of Bond Properety of Steel Reinforcing B	0	0	0 017/08(7	25-Apr-19	30-Sep-23 0	100%											1		1				1
EW008	Additional Works for Laying Concrete Blocks on Top of the Existing Seawall t	0	0	0 017/08(7	14-Feb-19	30-Sep-23 0	100%					8					1	:						
EW009	Existing Public Lighting Columns Removal by Others	0	0	0 017/08(7	10-Feb-19	30-Sep-23 0	100%											ł						
EW010	Unexpeced CLP Cables Identified at Wan O Road	0	0	0 017/08(7	10-Jun-19	30-Sep-23 0	100%																	
EW010 EW012	Obstruction of Construction of Elevated Deck and U-Trough by Unexpected (0	0	0 017/08(7	13-Feb-19	30-Sep-23 0	100%					-												
EW012	Unregistered Tree No. A0001 found at Wan O Road and obstruct the UU div	0	0	0 017/08(7	16-Feb-19		100%	· <mark>┟╶</mark> ┨╌╴╂╢┊								····•				+				+
	5	-	-	· · ·								-						-						
EW015	Constraints on TTA Scheme for Full Enclosure in Wan O Road	0	-	0 017/08(7	21-Feb-19	30-Sep-23 0	100%					-												
EW016	Accumlation of Settlement Values with the Existing Data	0	0	0 017/08(7	21-Feb-19	30-Sep-23 0	100%																	
EW017	Additional Works for Disposal of Unsuitable Materials to NENT in Lieu of TK(0	0	0 017/08(7	14-Mar-19	30-Sep-23 0	100%																	
EW018	Unexpected Traxcomm Cable Ducts at Portion I	0	0	0 017/08(7	10-Jun-19	30-Sep-23 0	100%					8					1	:						
EW019	Obstruction of Construction of Elevated Deck and U-Trough by Unexpected (0	0	0 017/08(7	14-Mar-19	30-Sep-23 0	100%	1-1												1				+
EW023	Extra Length of Bored Pile No. PL131, 132, 133, 107, 110, 113, 149, 152	0	0	0 017/08(7	21-Jun-19	30-Sep-23 0	100%					-				-		-				1		
	Unexpected WTT and HKT Ducts Identified at Wan O Road	0		0 017/08(7	26-Jul-19	30-Sep-23 0	100%																	
EW024	Uncertain Information of the Existing DN1800 drainage Pipe	0	-				100%					-				1	-	1						
	Uncertain information of the Existing Divisory urainage Pipe	-	-	0 017/08(7	16-Aug-19	· ·						-				-		1						
EW025		0	-	0 017/08(7	20-Aug-1§	30-Sep-23 0		. . ;														·		
EW024 EW025 EW026	Delay in Response from HyD on Submission of Alternative Foundation desig	· · · · · · · · · · · · · · · · · · ·	0	0 017/08(7	21-Aug-1§	30-Sep-23 0																		
EW025 EW026		0			22-Aug-19	30-Sep-23 0	100%																	
EW025 EW026 EW027	Delay in Response from HyD on Submission of Alternative Foundation desig	0	0	0 017/08(7	5		100%										1	i		1 I		·	1	
EW025 EW026 EW027 EW028	Delay in Response from HyD on Submission of Alternative Foundation desig Maintenance of EVA at Portion I for MTRC's Depot		-	0 017/08(7 0 017/08(7	23-Aug-1§	30-Sep-23 0			- II		1.1									1 1				
EW025 EW026 EW027 EW028 EW029	Delay in Response from HyD on Submission of Alternative Foundation desig Maintenance of EVA at Potion I for MTRC's Depot Unexpected Gas Main at Extent of Portion I Discrepancy of Finish Ground Level in Portion I	0	0		23-Aug-19		100%											1						
EW025 EW026 EW027 EW028 EW029 EW030	Delay in Response from HyD on Submission of Alternative Foundation desig Maintenance of EVA at Potion I for MTRC's Depot Unexpected Gas Main at Extent of Portion I Discrepancy of Finish Ground Level in Portion I Insufficiency of Information for Construction of Drainage works in U-Trough in	0	0	0 017/08(7 0 017/08(7	23-Aug-1§ 02-Sep-1§	30-Sep-23 0	100%					8 8 8 8 8 8 8				5 5 5 5 5								
EW025 EW026 EW027 EW028 EW029 EW030 EW031	Delay in Response from HyD on Submission of Alternative Foundation desig Maintenance of EVA at Potion I for MTRC's Depot Unexpected Gas Main at Extent of Portion I Discrepancy of Finish Ground Level in Portion I Insufficiency of Information for Construction of Drainage works in U-Trough in Potential of Excessive Concrete Loss at Bored Piles No. PL132, PL133, P6,	0	0 0 0 0	0 017/08(7 0 017/08(7 0 017/08(7	23-Aug-1{ 02-Sep-1{ 03-Sep-1{	30-Sep-23 0 30-Sep-23 0	100% 100%																	
EW025 EW026 EW027 EW028 EW029 EW030 EW031	Delay in Response from HyD on Submission of Alternative Foundation desig Maintenance of EVA at Potion I for MTRC's Depot Unexpected Gas Main at Extent of Portion I Discrepancy of Finish Ground Level in Portion I Insufficiency of Information for Construction of Drainage works in U-Trough in	0	0 0 0 0	0 017/08(7 0 017/08(7	23-Aug-1§ 02-Sep-1§	30-Sep-23 0	100%		-															
EW025 EW026 EW027 EW028 EW029 EW030 EW031	Delay in Response from HyD on Submission of Alternative Foundation desig Maintenance of EVA at Potion I for MTRC's Depot Unexpected Gas Main at Extent of Portion I Discrepancy of Finish Ground Level in Portion I Insufficiency of Information for Construction of Drainage works in U-Trough in Potential of Excessive Concrete Loss at Bored Piles No. PL132, PL133, P6,	0	0 0 0 0	0 017/08(7 0 017/08(7 0 017/08(7	23-Aug-1{ 02-Sep-1{ 03-Sep-1{	30-Sep-23 0 30-Sep-23 0	100% 100%																	
EW025 EW026 EW027 EW028 EW029	Delay in Response from HyD on Submission of Alternative Foundation desig Maintenance of EVA at Potion I for MTRC's Depot Unexpected Gas Main at Extent of Portion I Discrepancy of Finish Ground Level in Portion I Insufficiency of Information for Construction of Drainage works in U-Trough in Potential of Excessive Concrete Loss at Bored Piles No. PL132, PL133, P6, Extra Length of Pre-Bored Socketed H-Pile No. UP06, 11, 16, 21, 26, 31-38.	0	0 0 0 0	0 017/08(7 0 017/08(7 0 017/08(7	23-Aug-11 02-Sep-11 03-Sep-11 09-Sep-11	30-Sep-23 0 30-Sep-23 0 30-Sep-23 0	100% 100%								Date				Revis	ision		Ch	ecked	Appro
EW025 EW026 EW027 EW028 EW029 EW030 EW031 EW032 EW032	Delay in Response from HyD on Submission of Alternative Foundation desig Maintenance of EVA at Potion I for MTRC's Depot Unexpected Gas Main at Extent of Portion I Discrepancy of Finish Ground Level in Potion I Insufficiency of Information for Construction of Drainage works in U-Trough in Potential of Excessive Concrete Loss at Bored Piles No. PL132, PL133, P6, Extra Length of Pre-Bored Socketed H-Pile No. UP06, 11, 16, 21, 26, 31-38,	000000000000000000000000000000000000000	0 0 0 0 0 0	0 017/08(7 0 017/08(7 0 017/08(7 0 017/08(7	23-Aug-11 02-Sep-11 03-Sep-11 09-Sep-11 Contract No.:]	30-Sep-23 0 30-Sep-23 0 30-Sep-23 0 NE/2017/08 0	100% 100%							08-N		Mc	onthly P	Program		ision odate (Ma	r2021)	Ch	ecked	Appro
EW025 EW026 EW027 EW028 EW029 EW030 EW031 EW032	Delay in Response from HyD on Submission of Alternative Foundation desig Maintenance of EVA at Potion I for MTRC's Depot Unexpected Gas Main at Extent of Portion I Discrepancy of Finish Ground Level in Potion I Insufficiency of Information for Construction of Drainage works in U-Trough in Potential of Excessive Concrete Loss at Bored Piles No. PL132, PL133, P6, Extra Length of Pre-Bored Socketed H-Pile No. UP06, 11, 16, 21, 26, 31-38,	000000000000000000000000000000000000000	0 0 0 0	0 017/08(7 0 017/08(7 0 017/08(7 0 017/08(7	23-Aug-11 02-Sep-11 03-Sep-11 09-Sep-11	30-Sep-23 0 30-Sep-23 0 30-Sep-23 0 NE/2017/08 0	100% 100%							00.	/lar-21			<u> </u>	mme Up	odate (Ma	,	TL	ecked	StL
EW025 EW026 EW027 EW028 EW029 EW030 EW031 EW032 EW032 EW032	Delay in Response from HyD on Submission of Alternative Foundation desig Maintenance of EVA at Potion I for MTRC's Depot Unexpected Gas Main at Extent of Portion I Discrepancy of Finish Ground Level in Portion I Insufficiency of Information for Construction of Drainage works in U-Trough in Potential of Excessive Concrete Loss at Bored Piles No. PL132, PL133, P6, Extra Length of Pre-Bored Socketed H-Pile No. UP06, 11, 16, 21, 26, 31-38, Fort Milestone Summary	。 0 0 0 0 0 0 0	。 。 。 。 形展署	0 017/08(7 0 017/08(7 0 017/08(7 0 017/08(7 0 017/08(7	23-Aug-11 02-Sep-11 03-Sep-11 09-Sep-11 Contract No.: 1 ross Bay Link, T	30-Sep-23 0 30-Sep-23 0 30-Sep-23 0 30-Sep-23 0 NE/2017/08 Seeung Kwan O	100% 100%							00.	/lar-21 /lay-2	l Mo	onthy Pi	rogran	mme Upo nme Upo	odate (Ma date (Ma	y 2021)	TL CkT	ecked	StL StL
EW025 EW026 EW027 EW028 EW029 EW030 EW031 EW032 Actual Level of Ef	Delay in Response from HyD on Submission of Alternative Foundation desig Maintenance of EVA at Potion I for MTRC's Depot Unexpected Gas Main at Extent of Portion I Discrepancy of Finish Ground Level in Portion I Insufficiency of Information for Construction of Drainage works in U-Trough in Potential of Excessive Concrete Loss at Bored Piles No. PL132, PL133, P6, Extra Length of Pre-Bored Socketed H-Pile No. UP06, 11, 16, 21, 26, 31-38. Fort	。 。 。 。 。 。 。 。 。 。 。 。 。 。 。 。 。 。 。	0 0 0 0 0 0	0 017/08(7 0 017/08(7))))))))))))))))))))))))))))))))))))	23-Aug-11 02-Sep-11 03-Sep-11 09-Sep-11 Contract No.:]	30-Sep-23 0 30-Sep-23 0 30-Sep-23 0 30-Sep-23 0 NE/2017/08 Seeung Kwan O	100% 100%			Jil				00.	/lar-21	l Mo	onthy Pi	rogran	mme Upo nme Upo	odate (Ma	y 2021)	TL	ecked	StL





	Activity Name	Original Actual Duration Duration	Remaining Calendar Start Duration	Finish Late	Start Late Finish	Total TRA Float	Complete Oc	t No	v Dec	Jan	Feb	Mar A	pr M	ay Ju	n Ju	Aug	Sep	Oct	Nov	Dec	Jan Fe	eb Ma	r Apr	May	Jun Jul
PMI037	Request for Quotation - Additional Road Marking and Traffic Sign Poles	0 0	0 017/08(7	03-Jan-20	30-Sep-23	0	100%			Jan				iy 30		Aug	Ocp	001	NOV	Dec	Jan re			IVICIY	Juli Jul
PMI038	Request for Quotation - Works affected by Strike Event, Riots and Blockage	0 0	0 017/08(7	08-Feb-20	30-Sep-23	0	100%					-										-	-		
PMI039	Request for Quotation - Enhancement Measures for TTA at Wan Po Road	0 0		08-Feb-20	30-Sep-23	0	100%		1		+				181										
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-P	0 0	``	20-Feb-20	30-Sep-23	0	100%																-		
PMI042	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile No	0 0		20-Feb-20	30-Sep-23	0	100%															-			
		0 0		26-Feb-20	· ·		100%																1		-
PMI043	Provision of Additional Computer Equipment				30-Sep-23	0																			
PMI044	Request for Quotation - Revised Details of Type D Semi-enclosure Noise Bar	0 0		04-Mar-20	30-Sep-23	0	100%																		
PMI045	Request for Quotation - Revised Drainage Details at Eastbound of D9 Road	0 0		28-Feb-20	30-Sep-23	0	100%					1									1				
PMI046	Request for Quotation - Additional Works for Laying Concrete Blocks on Top	0 0	0 017/08(7	03-Mar-20	30-Sep-23	0	100%																1		
PMI047	Laying of Cable Duct and Earthing Conductor at Portion III	0 0	0 017/08(7	10-Mar-20	30-Sep-23	0	100%																		
PMI048	Request for Quotation - Revised the Extent and Details of the Stem Wall for	0 0	0 017/08(7	13-Mar-20	30-Sep-23	0	100%																		
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%																		
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 F	0 0		25-Apr-20	30-Sep-23	0	100%																		
PMI053	Request for Quotation - Uncharted Mass Concrete Conflict with Proposed PE	0 0	0 011100(1	04-May-20	30-Sep-23	0	100%			1															
		0 0	0 011100(1																		-	-			
PMI054	Request for Quotation - Low Noise Road Surfacing		0 011100(1	06-May-20	30-Sep-23	0	100%		.						8										
PMI055	Engaging a HOKLAS Laboratory for Impact Resistance Test and Heat Rever	0 0	0 011100(1	06-May-20	30-Sep-23	0	100%																		
PMI056	Request for Quotation - Additional E&M Facilities in the enclosed area under	0 0	0 017/08(7	07-May-2(30-Sep-23	0	100%																		
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%																		
PMI058	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		
PMI059	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile No. PC2	0 0		20-May-20	30-Sep-23	0	100%															:			
PMI060	Additional Material Testing & Concrete Coring	0 0		08-Jun-20	30-Sep-23	0	100%		t ∦∷∦	+-	++			1+1	1-11-1										
PMI061	Request for Quotation - Revised Seawall Modification Works and Revision of	0 0		12-Jun-20	30-Sep-23	0	100%																		
			0 011/00(1																				:		
PMI062	Point Load Test for Proof Drilling Works of Pre-bored Socketed H-pile No. PC	0 0		10-Jul-20,	30-Sep-23	0	100%															1			
PMI063	Request for Quotation - Extra Length of Pre-Bored Socketed H-Piles	0 0		27-Jul-20	30-Sep-23	0	100%																1		
PMI064	Request for Quotation - Delay in PMMA Panel Production for Noise Barrier D	0 0	0 017/08(7	27-Jul-20	30-Sep-23	0	100%																		
PMI065	Engaging an Independent HOKLAS Accredited Laboratory for Testing of Sta	0 0	0 017/08(7	10-Aug-2(30-Sep-23	0	100%																		
PMI066	Request for Quotation - Details for Abutment 2B	0 0	0 017/08(7	18-Aug-2(30-Sep-23	0	100%																		
PMI067	Request for Quotation - Revised Fresh Water Main Layout and Details	0 0	0 017/08(7	27-Aug-2(30-Sep-23	0	100%																		
PMI068	Request for Quotation - Cancellation of Preservation and Protection of Existi	0 0	· · · · ·	01-Sep-2(30-Sep-23	0	100%														-				
	-	0 0			· ·		100%														-				
PMI069	Request for Quotation - Revised Power Cable Ducting Layout and Civil Provi		•	02-Sep-2(30-Sep-23	0			.																
PMI070	Request for Quotation - Revised Details for Abutment 2A for the Installation c	0 0	0 011100(1	10-Sep-2(30-Sep-23	0	100%																		
PMI071	Request for Quotation - Revised of U-Trough structure and Abutment 2B	0 0	0 017/08(7	06-Oct-20	30-Sep-23	0	100%																		
PMI072	Request for Quotation - Additional Lightning Protection System for Semi-enc	0 0	0 017/08(7	16-Sep-2(30-Sep-23	0	100%			1															
PMI073	Removal of 5 nos. of Uncharted Trees at Wan O Road and Wan Po Road	0 0	0 017/08(7	16-Sep-2(30-Sep-23	0	100%					-									-				
PMI074	Request for Quotation - Extra Length of PBSH No. PC72-P1 and PC79-P1 a	0 0	0 017/08(7	17-Sep-2(30-Sep-23	0	100%																		
PMI075	Request for Quotation - Extra Length of PBSH at Lift and Staircase in Portio	0 0	0 017/08(7	17-Sep-2(30-Sep-23	0	100%													i-					
PMI076	Request for Quotation - Extra Length of PBSH at Elevated Cycle Track in Po	0 0		17-Sep-2(30-Sep-23	0	100%					1									-				
PMI077	Point Load Test for Proof Drill Hole no. PC9, 10-PD1	0 0	``	07-Oct-20	30-Sep-23	0	100%														-				
PMI078	Request for Quotation - Revised Drainage Details near Abutment 2A	° °	0 011100(1	16-Oct-20	30-Sep-23	0	100%																		
PMI079	Request for Quotation - Tropical Cyclone Warning Signal No. 8 on 19 August	0 0		22-Oct-20	30-Sep-23	0	100%		.											ļ					
PMI080	Engaging a HOKLAS Lab for Compression Tests of Concrete Cubes during	0 0	0 017/08(7	27-Oct-20	30-Sep-23	0	100% 02	0 to 2 ອີ Jເ	1 /2020,	1										1					1
PMI081	Revised Landscape Details at Wan O Road and Wan Po Road	0 0	0 017/08(7	27-Oct-20	30-Sep-23	0	100%																		
PMI082	Request for Quotation - Top Level of the Concrete Blocks for the Proposed \	0 0	0 017/08(7	04-Nov-20	30-Sep-23	0	100% rks	for Portic	dn II, II																
PMI083	Request for Quotation - Extra Length of PBSH at Lift and Staircase in Portio	0 0	0 017/08(7	04-Nov-20	30-Sep-23	0	100%																		
PMI084	Request for Quotation - Seawall Modification Works Along MTRCL Promenac	0 0	0 017/08(7	10-Nov-20	30-Sep-23	0	100%					1									-				
PMI085	Request for Quotation - Works affected by the Tropical Cyclone Warning Sig	0 0		13-Nov-20	30-Sep-23	0		on 11 O	dibber 202	<u></u>					******										
		0 0		19-Nov-20		0	100% the																		
PMI086	Request for Quotation - Revised the Type of Steel Vehicle Parapet and Tran				30-Sep-23																				
PMI087	Request for Quotation - Unexpected Rock Sample Retrieved from Interface (0 0		24-Nov-20	30-Sep-23	0	100% e r		1																
PMI088	Request for Quotation - Revised Design for Lift Internal Panels and Door fror	0 0	0 017/08(7	25-Nov-20	30-Sep-23	0	100% l to	Glazing,	·	1		1								1	1	1			
PMI089	Request for Quotation - Revised Design for Lift Internal Panels and Door fror	0 0	0 017/08(7	25-Nov-20	30-Sep-23	0	100% l to	Glazing,																	
PMI090	Request for Quotation - Revised Drainage Details at Westbound of Road D9	0 0	0 017/08(7	02-Dec-20	30-Sep-23	0	100% oa	d,			T														
PMI091	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile at Wan (0 0	0 017/08(7	04-Dec-20	30-Sep-23	0	100% tio	n II																	
PMI092	Request for Quotation - Additional Footpath Pavement Underneath Elevated	0 0	0 017/08(7	08-Jan-21	30-Sep-23	0	100% eck					1								1		1	:		
PMI093	Request for Quotation - Revision of M.J. Detail	0 0		11-Jan-21	30-Sep-23	0	100%														-		-		
PMI094	Removal of Uncharted Tree Nos. A0006 and A0008 at Wan O Road and Wa	0 0		14-Jan-21	30-Sep-23	0		Roat														-	-		
		· · ·	0 011100(1					· · · · · · · · · · · · · · ·	╂╢┊╌╢╶╌╴						↓ -⊹ ↓										·
PMI095	Request for Quotation - Revision of Interface Structure and Associated Detai			15-Jan-21	30-Sep-23	0	100%																í.		
PMI096	Request for Quotation - Clarification of Detail for Wall Opening	0 0		28-Jan-21	30-Sep-23	0	100%									1				1		1	÷		
PMI097	Request for Quotation - Revision of the Extent and Detail of Concrete Profile	0 0	0 017/08(7	28-Jan-21	30-Sep-23	0	100% file	Barrier,																	
PMI098	Engaging a HOKLAS Accredited Independent Laboratory for Testing of Gully	0 0	0 017/08(7	03-Feb-21	30-Sep-23	0	100% Gu	lly Forme	sup o Fe	bruary 2021	,														-
PMI099	Additional R.C. Corbel and Structural Steelwork Connection for Sign Gantry (0 0	0 017/08(7	09-Feb-21	30-Sep-23	0	100% an			Signal at U													-		
PMI100	Request for Quotation - Conflict between Existing Manhole No. SMH404689	0 0		10-Feb-21	30-Sep-23	0				No. PC20 at		Deck,			1111			[
PMI101	Point Load Test for Proof Drill Hole no. PD-1 at PC77	0 0		25-Feb-21	30-Sep-23	0	100%															1			
PMI102		0 0		31-Mar-21	30-Sep-23			to the F	811/1 Plant F	nom													1		
	Provision of Temporary Concrete Pavement at the Access to the E&M Plant											ntn (- 1 + -											1		
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PMI104	Request for Quotation - Additional TCSS Civil Provisions for Full Closure of C	0 0		14-Apr-21	30-Sep-23					f¢BL under		veather Co	onditions,		 					Ļ					
PMI105	Risk Assessment for Lightning Protection System of the Semi-Enclosed Nois	0 0	0 017/08(7	22-Apr-21	30-Sep-23		100%1 0			l Noise Endo													1		
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PMI107	Engaging a HOKLAS Accredited Independent Laboratory for Testing of Prec	0 0	0 017/08(7	24-Jun-21	30-Sep-23					atory for Tes												:			-
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PREL1120 Const PREL1130-01 Late I PREL1130-02 Samp PREL1130-12 Fabric PREL1130-22 Delive PREL1130-32 Fabric PREL1130-32 Fabric PREL1130-52 Fabric PREL1130-52 Delive PREL1130-62 Delive PREL1130-62 Delive PREL1140-01 Fabric PREL1140-21 Delive	onstruction of Wheel Washing System (CE005, 007, 009) ate Delivery of Steel Material for Fabrication of Structural Members at Pre-fa ample Selection and Testing for Structural Steels for Pre-fabrication of Nois	22	6	0 017/08(6 12-Jan-19 A		30-Sep-23		0	100%															
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PREL1130-12 Fabric PREL1130-22 Delive PREL1130-32 Fabric PREL1130-42 Delive PREL1130-52 Fabric PREL1130-62 Delive PREL1140-01 Fabric PREL1140-21 Delive	-	60 1	154 (0 017/08(7 29-Jan-20 A	30-Jun-20	23-Sep-21	23-Sep-21	0	100%															
PREL1130-22 Delive PREL1130-32 Fabric PREL1130-42 Delive PREL1130-52 Fabric PREL1130-62 Delive PREL1140-01 Fabric PREL1140-21 Delive		33 1	185 (0 017/08(6 02-Jul-20 A	10-Feb-21	23-Sep-21	23-Sep-21	0	100% of N	voise Enclos	sure		+											
PREL1130-22 Delive PREL1130-32 Fabric PREL1130-42 Delive PREL1130-52 Fabric PREL1130-62 Delive PREL1140-01 Fabric PREL1140-21 Delive	abrication of Structural Elements for At-grade Road Noise Enclosure (Type	90 2	204 2	21 017/08(6 02-Mar-21 A	01-Dec-21	28-Oct-21	20-Nov-21	-9 0	76.67%		Fabricati	on of Structural	Elements for A	At-grade Ro	ad Nosel	Enclosur	e (Type B)	1			1			
PREL1130-32 Fabric PREL1130-42 Delive PREL1130-52 Fabric PREL1130-62 Delive PREL1140-01 Fabric PREL1140-21 Delive	elivery of Structural Elements for At-grade Road Noise Enclosure (Type B)			0 017/08(6 13-Mar-21 A			10-Jan-22	0	100% пас	te Poad Nd	ise Enclosur			Ŭ										
PREL1130-42 Delive PREL1130-52 Fabric PREL1130-62 Delive PREL1140-01 Fabric PREL1140-21 Delive	abrication of Structural Elements for Noise Enclosure for Elevated Deck, U4			· ·	-		30-Nov-21	-18 0	57.78%			brication of Stru	ictural Element	ts for Noise	Enclosure	re for Flev	ated Deck	: Litrouch (Tv	Ivne A					
PREL1130-52 Fabric PREL1130-62 Delive PREL1140-01 Fabric PREL1140-01 Fabric PREL1140-21 Delive	elivery of Structural Elements for Elevated Deck, U-trough (Type A)	60		60 017/08(6 08-Nov-21			04-Dec-21	-36 0	0%				of Structural Ele						.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
PREL1130-62 Delive PREL1140-01 Fabric PREL1140-21 Delive	abrication of Structural Elements for Noise Enclosure for Wan O Road (Type	45		45 017/08(6 08-Nov-21	31-Dec-21	-	08-Feb-22	29	0%		<u></u>	Fabrication of S									• • • • • • • • • • • • • • • • • • •			
PREL1140-01 Fabric PREL1140-21 Delive	lelivery of Structural Elements for Wan O Road (Type C, D)	30	-	30 017/08(6 30-Nov-21	06-Jan-22			29	0%			Delivery of St		ento for M/cm		(Type C, I	i i	л (туре Q, D) ¦	"					
PREL1140-21 Delive									4000/145					nts ior wer	i un cau	(iype C, i	0)	-						
	abrication of Sub-frame and PMMA Panels for Noise Enclosure			0 017/08(6 20-Apr-21 A				0			ts for Noise I							1						
	elivery of Sub-frame and PMMA Panels for Noise Enclosure			11 017/08(6 15-Jun-21 A		23-Sep-21		-37 0	63.33%		perivery or S	ub-frame and f cceptance test	Pivilvia Panels I	or Noise Er	iciosule									
	rocurement, factory acceptance test for Lift	60		0 017/08(6 15-Oct-21 A			20-Nov-21	0			nt factory ar	cceptance test	for Lift				.įį							
PREL1150-01 Delive	elivery for Lift and Associated	44	0 4	44 017/08(6 08-Nov-21*	30-Dec-21	20-Nov-21	13-Jan-22	11 0	0%			Delivery for Lift												
PREL1160 FSD's	SD's agreement and confirmation on the arrangement and schedules of Ft	48	0 44	48 017/08(6 19-Nov-21	17-Jan-22	17-Feb-22	14-Apr-22	71 0	0%	►∰		📕 F\$D's agr	ement and co	onfirmation	oḥ the an	rangene	nť and sche	dules of FS	S inspe¦citon	n to the E&M	I works for the I	ift		
PREL1170 Enviro	nvironmental 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%															
PREL1180 Remo	lemoval 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%															
PREL1190 Layin	aying of Permanent Power Cable (by others)	48	0 4	48 017/08(6 25-Mar-22	26-May-22	24-Mar-22		-1 0	0%				-		Layrg	of Perm	anent Power	r Cable (by	others)					
PREL1220 Civil p	ivil provision of TCSS	48	0 4	48 017/08(6 08-Nov-21	05-Jan-22	19-Jan-22	18-Mar-22	59 0	0%		······································	Civil provision	of TCSS								+			
	Istallation of Permanent Street Lighting (by others)	49		49 017/08(6 27-May-22	25-Jul-22	26-May-22		-1 0	0%		(1 ⁻ '					طين	Installation	n of Perman	inent Street	et Lighting (by	others)			
	aying of Irigation (Portion I, II, III)	49		49 017/08(6 27-May-22	25-Jul-22	26-May-22		-1 0	0%						اللغ	<u> </u>	Laying of	:	:			-		
	rocurement, Factory Acceptance Test and Delivery of Bearing			0 017/08(7 14-Jan-20 A		-		-1 0	100%								Laying 0	-ngauon (P						
				0 017/08(7 14-Jan-20 A 0 017/08(6 13-Jun-19 A				U	100%	-++-														
Ground Investigation GI1010 Grour	round Investigation Borehole (NEBH1) (Rig4) (10D/hole+5D TRA)	30 15		0 017/08(6 13-Jun-19 A 0 017/08(6 02-Jul-19 A				5	100%	┈╂╌╂╌╂╫				·	··· ↓			·····			+		·····	
						-												-						
	Ground Investigation Borehole (NEBH2) (Rig1) (10D/hole+5D TRA)	15		0 017/08(6 13-Jun-19 A			27-Aug-21	5	100%															
	Ground Investigation Borehole (NEBH3) (Rig1) (10D/hole+5D TRA)	15	_	0 017/08(6 24-Jun-19 A		0	-	5	100%															
Construction Works of Portion I				34 02-Jul-19 A		18-Aug-21		378								7 24 un	-22, Constru	uction Works	s of Portion	nl				
	rovide Access to MTRC P10 at Elevated Cycle Track Area			0 017/08(7 02-Jul-19 A			-	0	100%															
	rovide Access to MTRC P10 at U-trough Section		188 (0 017/08(7 01-Apr-20 A		09-Sep-21		0	100%															
Cycle Track - U-trough			659 16	65 19-Aug-19 A	_	· · · ·	14-Apr-22	-36		╼┿╋╼╋╫					🔫 þ Ju	un 22, Cy	cle Track - U	J-trough						
Excavation to U-tough Level(+5.0		446 3	398 (0 19-Aug-19 A																				
PORI.UT.EX1010 Excav	xcavation 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-1§	09-Sep-21	09-Sep-21	0	100%								1	1		1				
PORI.UT.EX1020 Plate	late Load Test	7	5	0 017/08(7 22-Aug-19 A	26-Aug-1§	09-Sep-21	09-Sep-21	0	100%									-						
PORLUT.EX1030 Excav	xcavation to U-trough Founding Level for Construction of Bay 3-5 (+5.0mP	10	13	0 017/08(6 09-Mar-20 A	23-Mar-20	09-Sep-21	09-Sep-21	0	100%								1							
	iaision with Towngas and TranxComm and Utilities Diversion for Bay 3 (EW(60 2	235	0 017/08(6 17-Jan-20 A	02-Nov-20	09-Sep-21	09-Sep-21	0	100%											1				
	xcavation to U-trough Founding Level for Construction of Bay 2 (+5.0mPD	4		0 017/08(6 19-Nov-20 A				0	100%															
	xcavation to U-trough Founding Level for Construction of Bay 2 (+5.0mPD)	4		0 017/08(6 12-Dec-20 A		09-Sep-21		- ľ	100%PD)	,								1						
	tilities Diversion for Bay 1-2		-	0 017/08(6 21-Sep-20 A	-	-		0	100%															
	-							-	100%	· - 	<u></u>	21 Doo 24	note the set of the	trough		Pollo 477	VPov 4 T-	m)			·+		·+	
Construction of U-trough Structur	icture (9 Bays, 27D/Bay, 1 Team) Construction of Blinding Layer for Bay 6-9			45 017/08(6 27-Aug-19 A				-48	100%			31-Deo-21, Cor	auucuon of U-	aougnisiu	Guie BB	ays, 1/D	, φαy, Ilear							
		2		0 017/08(6 27-Aug-19 A	-			0	100%									1						
PORI.UT.ST1010 Const	construction of U-trough Structure Bay 6-9 Base Slab (14D/bay, 1 team)	56	34	0 017/08(6 27-Aug-19 A	U8-Oct-19	09-Sep-21	09-Sep-21	0	100%			1						1		1		1		
					~											Date			R	Revision			Checked	d A
 Actual Level of Effort 	♦ Milestone				Contra	ict No.:	NE/2017/0)8							<u> </u>		-	L. D.			A			
Actual Work	summary summary	工程拓展	星里	C.	rose Dor	Tink 7	Seung Kv	an O							08-Ma	ar-21	Mont	niy Progi	ramme	Update (N	viar 2021)	T	L	StL
					•	-	0						-		08-Ma	ay-21	Mont	hy Progr	ramme l	Update (N	/lay 2021)		CkT	StL
Remaining Work	Civil E	Engineerin	g and		load D9	and Ass	sociated W	orks			D	ild	1/:		08-1-1		_			Update (J	• /		СКТ	StL
Critical Remaining Work		lopment De	epartme	ent	1	Page 13 o	of 26						K 11	10	08-Jul 16-Se			leration F			Jui 2021)		CKT	S⊾ St

ivity ID		Activity Name	Original Actual Remaining Duration Duration Duration		Start	Finish	Late Start	Late Finish	Total TRA Float	Complete								2022			
_					00 14-00 4	47.1400	00.0 04	00.0 01		. 00	Nov	Dec	Jan	Feb	Mar /	Apr N	May J	Jun	Jul	Aug	Sep
	 PORI.UT.ST1010-01 PORI.UT.ST1010-02 	Construction of U-trough Structure Bay 9 Wall Stem Construction of U-trough Structure Bay 8 Wall Stem			06-Mar-20 A 19-Mar-20 A	17-Mar-20	09-Sep-21 09-Sep-21	09-Sep-21 09-Sep-21	0	100%											
	PORI.UT.ST1010-02	Construction of U-trough Structure Bay 7 Wall Stem			06-Mar-20 A	-	09-Sep-21 09-Sep-21	09-Sep-21 09-Sep-21	0	100 %								÷	÷	-+	·
	PORLUT.ST1010-13	Construction of U-trough Structure Bay 6 Wall Stem			11-Apr-20 A		09-Sep-21	09-Sep-21	0	100%											
	PORLUT.ST1020	Access Road Modification to Seaside			27-Feb-20 A	07-Mar-20		09-Sep-21	0	100%											
	PORLUT.ST1030	Construction of Blinding Layer for Bay 4-5			24-Mar-20 A		09-Sep-21	09-Sep-21	0	100%											
	PORI.UT.ST1040-01	Construction of U-trough Structure Bay 5 Base Slab			25-Mar-20 A	08-Apr-20	09-Sep-21	09-Sep-21	0	100%			-							-	
	PORI.UT.ST1040-11	Construction of U-trough Structure Bay 4 Base Slab		· ·	28-Mar-20 A		09-Sep-21	09-Sep-21	0	100%				††				11			
	PORI.UT.ST1040-15	Construction of Blinding Layer for Bay 3	4 2 0	0 017/08(6	03-Nov-20 A	04-Nov-20	09-Sep-21	09-Sep-21	0	100%										-	
	PORI.UT.ST1040-21	Construction of U-trough Structure Bay 3 Base Slab	14 12 0	0 017/08(6	11-Nov-20 A	24-Nov-20	09-Sep-21	09-Sep-21	0	100%											
	PORI.UT.ST1040-31	Construction of U-trough Structure Bay 5 Wall Stem	14 16 0	0 017/08(6	27-Jul-20 A	13-Aug-2(09-Sep-21	09-Sep-21	0	100%											
	PORI.UT.ST1040-41	Construction of U-trough Structure Bay 4 Wall Stem	14 28 0	0 017/08(6	22-Jun-20 A	25-Jul-20	09-Sep-21	09-Sep-21	0	100%										-	
	PORI.UT.ST1040-51	Construction of U-trough Structure Bay 3 Wall Stem	14 14 0	0 017/08(6	18-Feb-21 A	05-Mar-21	09-Sep-21	09-Sep-21	0	100%	-								(TTT)	1	
	PORI.UT.ST1060	Construction of Blinding Layer for Bay 2	2 1 0	0 017/08(6	25-Nov-20 A	25-Nov-20	09-Sep-21	09-Sep-21	0	100%											
	PORI.UT.ST1065	Construction of Blinding Layer for Bay 1	2 1 0	0 017/08(6	18-Dec-20 A	18-Dec-20	09-Sep-21	09-Sep-21		100%											
	PORI.UT.ST1070	Construction of U-trough Structure Bay 2 Base Slab	14 14 (0 017/08(6	26-Nov-20 A	11-Dec-20	09-Sep-21	09-Sep-21	0	100%										-	
	PORI.UT.ST1070-01	Construction of U-trough Structure Bay 1 Base Slab	14 10 0	0 017/08(6	21-Dec-20 A	04-Jan-21	09-Sep-21	09-Sep-21	0	100%											
	PORI.UT.ST1070-02	Construction of U-trough Structure Bay 1 Wall Stem	14 109 0	0 017/08(6	01-Mar-21 A	15-Jul-21	09-Sep-21	09-Sep-21	0	100% h Strue	tu e Esyit	Wall Sta	em								
	PORI.UT.ST1070-12	Construction of U-trough Structure Bay 2 Wall Stem	14 36 0	0 017/08(6	18-Dec-20 A	01-Feb-21	09-Sep-21	09-Sep-21	0	100%											
	PORI.UT.ST1070-42	R C Coping for Balustrade			08-Nov-21	31-Dec-21	09-Sep-21	03-Nov-21	-48	0%					Balustrade						
		nation Level (2 Layers, 5D/layer)		0 017/08(6	-	30-Nov-21	09-Sep-21	08-Dec-21	7			BO-NOV-	21, Back	filling to I	Interim Form on Level (2 L	nation Le	vel (2 Lay	ers, 5D)/laver)	1	-
	PORIUT.BF1010 PORUTERF1020	Backfilling to Interim Formation Level (2 Layers, 5D/Layer)			08-Nov-21	18-Nov-21	26-Nov-21	08-Dec-21	17 0	0%		.							į		· {
	PORI.UT.BF1020 Pomoining Works	Backfilling inside U-trough Structure (14 Layers, 5D/layer)			01-Sep-21 A	_	<u> </u>	04-Oct-21	-48 0	71.43%		Backulli	ng Inside	U-trough	h Stucture (14 Layes	s, o⊔/laye				No-1
	Remaining Works	Construction of Drainage for SMH101 to SMH102			16-Sep-20 A 16-Sep-20 A	_	26-Oct-21 26-Nov-21	14-Apr-22 26-Nov-21	-36	100%					1		P P	, -jun-2	ZZ, Re	maining V	WORKS
	PORI.UT.1055	Review and Acceptance of Design for ELS for Drainage		· ·	08-Oct-20 A	12-Nov-20		26-Nov-21	0	100%											
	PORI.UT.1060	Construction of Drainage for SMH102 to SMH103			08-May-21 A		26-Nov-21	26-Nov-21	0	100 %		лынла								-	
	PORI.UT.1000	Construction of Drainage for SMI102 to SMI103			21-Jun-21 A	28-Jul-21	26-Nov-21	26-Nov-21	0	100% hage			104						÷		
	PORI.UT.1080	Construction of Drainage for SMI104 to SMI104			03-May-21 A			26-Nov-21	0	100% Iage			1104								
	PORI.UT.1090.00	Construction of Planter, Lighting & Drawpit			01-Dec-21	10-Mar-22		18-Mar-22	7 0	0%					Constru	uction of	Planter I	ichting.	. 8 Drai	Arbit	
	PORLUT.1090.01	Construction of U Channel			08-Nov-21	15-Feb-22		14-Feb-22	-1	0%	1117		:		onstruction o					- Pro-	
	PORI.UT.1090.02	Concrete Barrier, Cable Duct and Road Pavement			03-Jan-22	30-Apr-22	17-Dec-21	14-Apr-22	-11	0%			:	_ ~			Concrete	Barier /	Cable	Duct and	Road P
	PORI.UT.1090.12	Balustrade Installation			03-Jan-22	01-Jun-22	04-Nov-21	30-Mar-22	-48	0%								Balustra	ade Ins	tallation	
	PORI.UT.1110.10	Construction of Drainage SMH601 to SMH604		· ·	08-Nov-21	31-Dec-21		16-Dec-21	-11				Constru	ction of:	Drainage SN	MH601 to				-	
	Elevated Cycle Track				23-Jul-19 A		27-Aug-21	30-Sep-23	418									22. Elev	vated (; Cycle Tracl	*
	Remaining Works		124 0 124	4 017/08(6	01-Dec-21	06-May-22	11-Dec-21	14-Apr-22	-15				-				08-May 2	22. Rem			
	PORI.ED.MISC.1010	Balustrade Installation	60 0 60	0 017/08(6	31-Dec-21	15-Mar-22	31-Jan-22	14-Apr-22	25	0%					Balus	strade Insta	tallation				
	PORI.ED.MISC.1020	Planter, Lighting, Drawpit	40 0 40	0 017/08(6	31-Dec-21	19-Feb-22	11-Dec-21	29-Jan-22	-15	0%					Planter, Light		мрі				
	PORI.ED.MISC.1030	225 U Channel with cover	14 0 14	4 017/08(6	31-Dec-21	17-Jan-22	10-Feb-22	25-Feb-22	31	0%			22	5 U Chai	nnel with co	ver			<u>.</u>		
	PORI.ED.MISC.1040	Cable Duct Installation (Together with Planter)		· ·	01-Dec-21	09-Feb-22		18-Mar-22	32	0%	1			Cabl	le Duct Insta	1.1	oçether w	vit Plan	nte <mark>r</mark>)	-	
	PORI.ED.MISC.1050	MJ Installation		0 017/08(6	-		07-Jan-22	25-Feb-22	5	0%			:		A. Installation						
	PORI.ED.MISC.1060	Water Proofing			21-Feb-22		31-Jan-22	25-Feb-22	-15	0%	-				Water	er Proofing			4		
	PORI.ED.MISC.1070	Road Pavement		0 017/08(6			26-Feb-22	14-Apr-22	-15	0%							Road Pa	vement	at I		
		mative PBSH at MTRC Development Zone (10nos, 10D/pile+5D TRA, 1 to 4rig		`	23-Jul-19 A	05-May-2(30-Sep-23													
	Rig 2	Predrilling for Alternative PBSH at Portion I (PD97)			04-Dec-19 A 04-Dec-19 A	-	27-Aug-21 27-Aug-21		5	100%										-	
		Idling of Predrill Rig for PD97 by Sub-contractor			14-Dec-19 A			-	0	100%											
		Predriling for Alternative PBSH at Portion I (PD01A)			25-Apr-20 A		27-Aug-21	-	5	100%		.				·	-#-++	甘昔	÷	·	1
	Rig 3	g			05-Sep-19 A	-	-	27-Aug-21	U U	10070											
		Predrilling for Alternative PBSH at Portion I (PD08)		· ·	05-Sep-19 A	· ·		27-Aug-21	5	100%											
	Tig 4				17-Aug-19 A	-	-	27-Aug-21													
		Predrilling for Alternative PBSH at Portion I (PD98)			17-Aug-19 A	-	-	27-Aug-21	5	100%											
	nig 5 📲				10-Oct-19 A		27-Aug-21	27-Aug-21											T		
		Predrilling for Alternative PBSH at Portion I (PD02)		· ·	10-Oct-19 A		27-Aug-21	27-Aug-21	5	100%										1	
		Predrilling for Alternative PBSH at Portion I (PD03)			19-Oct-19 A	28-Oct-19		27-Aug-21	5	100%											
					23-Jul-19 A	28-Sep-19	-	30-Sep-23													
	PORI.ED.PD1010	Predrilling for Alternative PBSH at Portion I (PD01) (CE018, CE017)			23-Jul-19 A		27-Aug-21	27-Aug-21	5	100%	-										
	PORI.ED.PD1030	Predrilling for Alternative PBSH at Portion I (PD04)			13-Sep-19 A			30-Sep-23	5	100%											
	PORI.ED.PD1060	Predrilling for Alternative PBSH at Portion I (PD07)			03-Aug-19 A		-	27-Aug-21	5	100%											
	PORI.ED.PD1090 PORI.ED.PD14400	Predrilling for Alternative PBSH at Portion I (PD06)			14-Aug-19 A	-	-	27-Aug-21	5	100%											
	PORIED.PD1100	Predrilling for Alternative PBSH at Portion I (PD05)		-	23-Aug-19 A	-	-	27-Aug-21	5	100%			1								
	PORI.ED.PD1110	Demobolize of Predrilling Rig 6 off Site			28-Sep-19 A			30-Sep-23	0	100%		.						- -	<u> </u>		
	ELS Construction for Elevent	Ated Cycle Track Sheet Piling along Elevated Cycle Track		`	21-Aug-20 A 21-Aug-20 A				0	100%										1	
		e PBSH (24nos, 7D/pile, 1 rig)			21-Aug-20 A 10-Mar-20 A		-		0	10070											
	PORI.ED.HP0500	Mobilization of Piling Rigs for PBSH		<u>`</u>	07-May-20 A	·			0	100%										1	
	PORI.ED.HP1000	Construction of Alternative PBSH (16nos,7D/pile, rig 1)			25-May-20 A		-		0	100%											-
	PORI.ED.HP1010	Construction of Alternative PBSH at PC2-P1, PC2-P2, PC3-P2 (3nos, 7D/rig,			10-Mar-20 A	-	-	27-Aug-21	0	100%	1-1			+				1	-	•	
	PORI.ED.HP1020	Construction of Alternative PBSH (5nos,7D/pile, rig 2)			03-Aug-20 A		-	27-Aug-21	0	100%											
	PORI.ED.HP1250	Pile Loading Test		-	26-Aug-20 A		-	-	0	100%											
		evel (+5.0mPD to +2.8mPD) (2000m3)			12-Oct-20 A	_		09-Sep-21													
	PORI.ED.EX1030	Excavation to Strut Level (+5.0mPD to +4.0mPD)			12-Oct-20 A		27-Aug-21		0	100%											
	PORI.ED.EX1040	Installation of Concrete Blocks and Struts for ELS			11-Nov-20 A			09-Sep-21	0	100%				+				甘情		•	
	PORI.ED.EX1060	Excavation to Pile Cap Founding Level (+2.8mPD)						09-Sep-21	0	100%							. 8		: 1	1	

Actual Work

Remaining Work Critical Remaining Work summary



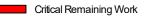
Contract No.: NE/2017/08 Cross Bay Link, Tseung Kwan O Road D9 and Associated Works Page 14 of 26



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	Activity Name			maining Calendar Duration	Start	Finish	Late Start	Late Finish	Total TRA											022			ĺ
							00.0		Float	Complete Oct	Nov	De	c Jan	Feb	Ma	ar Ap	or M	vlay .	Jun	Ju		ug	_
Construction of Pile Caps PORI.ED.PC1010	(10 PC, 14D/Cap, 3teams) Construction of PC10 (incl. Installation of Capping plate)	105 14	62 23		17-Nov-20 A 17-Nov-20 A	30-Jan-21 12-Dec-20	09-Sep-21 09-Sep-21	21-Oct-21 09-Sep-21	0	100%													
PORI.ED.PC1020	Construction of PC9 (incl. Installation of Capping plate)	14	22		18-Nov-20 A	12-Dec-20	09-Sep-21	09-Sep-21	0	100%				1									
PORI.ED.PC1030	Construction of PC8 (incl. Installation of Capping plate)	14	22	0 017/08(6	24-Nov-20 A	18-Dec-20	09-Sep-21	09-Sep-21	0	100%													
PORI.ED.PC1040	Construction of PC7 (incl. Installation of Capping plate)	14	19	0 017/08(6	27-Nov-20 A	18-Dec-20	09-Sep-21	09-Sep-21	0	100%													
PORI.ED.PC1050	Construction of PC6 (incl. Installation of Capping plate)	14	20	0 017/08(6	28-Nov-20 A	21-Dec-20	09-Sep-21	09-Sep-21	0	100%													
PORI.ED.PC1060	Construction of PC5 (incl. Installation of Capping plate)	14	26		30-Nov-20 A	31-Dec-20	09-Sep-21	09-Sep-21	0	100%													
PORI.ED.PC1070	Construction of PC4 (incl. Installation of Capping plate)	14	19		08-Dec-20 A	31-Dec-20	09-Sep-21	09-Sep-21	0	100%													
PORI.ED.PC1080	Construction of PC3 (incl. Installation of Capping plate)	14	19		14-Dec-20 A	07-Jan-21	09-Sep-21	09-Sep-21	0	100%				1									
PORI.ED.PC1090	Construction of PC2 (incl. Installation of Capping plate)	14	16		17-Dec-20 A	07-Jan-21	09-Sep-21	09-Sep-21	0	100%											1		
PORI.ED.PC1100	Construction of PC1 (incl. Installation of Capping plate) and Abutment (16pcs, 10D'column, 4 teams)	14 289	10 55		20-Jan-21 A 29-Dec-20 A	30-Jan-21 17-Dec-21	21-Oct-21	21-Oct-21 27-Nov-21	-17	100%			17 Doc 2	Const		of Colum		Atutto				mn 4+	•
PORI.ED.CP1010	Construction of Abutment 1A (1st Portion)	209	51	`	04-Jan-21 A	08-Mar-21	09-Sep-21	09-Sep-21	-17	100%						-		Autume	in (iop	1			Ì
PORI.ED.CP1010-01	Construction of Abutment 1A (2nd Portion)	20	0	20 017/08(6		30-Nov-21	19-Oct-21	10-Nov-21	-17 0	0%		Car	nstruction o	of Abutme	ent 1A	(2nd Port	tion);			()			
PORI.ED.CP1020	Installation of Bearings	15	0	15 017/08(6	01-Dec-21	17-Dec-21	11-Nov-21	27-Nov-21	-17 0	0%		Ŧ ċ	Installatio	on of Bea	rings						-		
PORI.ED.CP1030	Construction Column PC9-CA	18	12	0 017/08(6	29-Dec-20 A	12-Jan-21	21-Oct-21	21-Oct-21	0	100%		П											
PORI.ED.CP1040	Construction Column PC9-CB	18	12	0 017/08(6	29-Dec-20 A	12-Jan-21	21-Oct-21	21-Oct-21	0	100%													
PORI.ED.CP1050	Construction Column PC8-CA	18	18	0 017/08(6	29-Dec-20 A	19-Jan-21	21-Oct-21	21-Oct-21	0	100%													
PORI.ED.CP1060	Construction Column PC8-CB	18	12		29-Dec-20 A	12-Jan-21	21-Oct-21	21-Oct-21	0	100%										I			
PORI.ED.CP1070	Construction Column PC7-CA	18	6		18-Jan-21 A	23-Jan-21	21-Oct-21	21-Oct-21	0	100%				1									
PORI.ED.CP1080	Construction Column PC7-CB	18	6		18-Jan-21 A	23-Jan-21	21-Oct-21	21-Oct-21	0	100%											-		
PORI.ED.CP1090	Construction Column PC6-CA	18	7		22-Jan-21 A	29-Jan-21	21-Oct-21	21-Oct-21	0	100%											ł	-	
PORI.ED.CP1095 PORIED.CP1100	Construction Column PC6-CB	18	7		22-Jan-21 A	29-Jan-21	21-Oct-21 21-Oct-21	21-Oct-21	0	100%		╟╢┼			<u>+</u>			- 		<u>8</u>			-
PORI.ED.CP1100 PORIED.CP1110	Construction Column PC5-CA	18	9		23-Jan-21 A 23-Jan-21 A	02-Feb-21	21-Oct-21 21-Oct-21	21-Oct-21	0	100%													
 PORI.ED.CP1110 PORI.ED.CP1120 	Construction Column PC5-CB Construction Column PC4-CA	18	9		23-Jan-21 A 26-Jan-21 A	02-Feb-21 05-Feb-21	21-Oct-21 21-Oct-21	21-Oct-21 21-Oct-21	0	100%													
PORI.ED.CP1130	Construction Column PC4-CB	18	10		26-Jan-21 A	05-Feb-21	21-Oct-21	21-Oct-21 21-Oct-21	0	100%				-									
PORI.ED.CP1140	Construction Column PC3-CA	18	8		02-Feb-21 A	10-Feb-21	21-Oct-21	21-Oct-21	0	100%											-		
PORI.ED.CP1150	Construction Column PC3-CB	2	8		02-Feb-21 A		21-Oct-21	21-Oct-21	0	100%										8 - -			-
PORI.ED.CP1160	Construction Column PC1-CA	18	5	0 017/08(6	24-Feb-21 A	01-Mar-21	21-Oct-21	21-Oct-21	0	100%						-					1		
PORI.ED.CP1170	Construction Column PC2-CA	18	5	0 017/08(6	24-Feb-21 A	01-Mar-21	21-Oct-21	21-Oct-21	0	100%											-		
Drainage Works		353	133	40 017/08(6	22-Dec-20 A	23-Apr-22	21-Oct-21	30-Mar-22	-17								🔫 23 /	Apr-22,	Diana	ge V/	orks		
PORI.ED.DRA1020	Construction of Drainage from SMH105 to SMH106	20	34		22-Dec-20 A			21-Oct-21	0	100%					L					<u> </u>			
PORI.ED.DRA1030	Construction of Drainage from SMH106 to SMH107	20	24		09-Jan-21 A	05-Feb-21	21-Oct-21	21-Oct-21	0	100%													
PORI.ED.DRA1040	Construction of Drainage from SMH107 to SMH108	20	33		15-Jan-21 A	25-Feb-21	21-Oct-21	21-Oct-21	0	100%				-							-		
PORI.ED.DRA1050	Construction of Drainage from SMH108 to SMH109	20	20		09-Mar-21 A	31-Mar-21	21-Oct-21	21-Oct-21	0	100%				504		1					1		
PORI.ED.DRA1055 PORI.ED.DRA1060	Backfilling to Interim Formation Level (+1.36mPD to +2.8mPD, 5 Layers, 5D/ Backfilling to Interim Formation Level (+2.8mPD to 4.4mPD, 6 Layers, 1.5D/	25	25 9		28-Apr-21 A 29-May-21 A	28-May-21 08-Jun-21	21-Oct-21 21-Oct-21	21-Oct-21 21-Oct-21	0	100% +1.36 100% /el (+2			PD, 5 Lave	ers, SD/Ia	ver)	-					-		
PORI.ED.DRA1000	Construction of Roadworks and Watermain Laying	40	9	40 017/08(6	-		12-Feb-22	30-Mar-22	-17 0	0%			FD, 0 Lay	(CIS, 1.JL	hayer				n n Br	obdyr	nks and	Water	
	icture (3bays, 45D/bay, 3Teams)	180	159	95 017/08(6			21-Oct-21	12-Feb-22	-17	070					- d	4-Mair-22,	Constr	nstruction uction of	Deck	Struc	ure:(3b	avs. 45	5
PORI.ED.1140	Remaining Works for Handover to CBL-C1	30	0	30 017/08(6	· · · · · · · · · · · · · · · · · · ·	04-Mar-22	06-Jan-22	12-Feb-22	-17 0	0%			- r			emaining						.,_,	
PORI.ED.DS.1010	Construction of Deck Structure Bay 1	30	0	30 017/08(6	18-Dec-21	25-Jan-22	29-Nov-21	05-Jan-22	-17 0	0%						of Deck S	Structure	e Bay 1			1		
PORI.ED.DS.1020	Construction of Deck Structure Bay 2	180	159	4 017/08(6	28-Apr-21 A	11-Nov-21	21-Oct-21	25-Oct-21	-15	97.78%		nstruc	ton of Dec	k Struciu	Rev Bay	2							
PORI.ED.DS.1030	Construction of Deck Structure Bay 3	40	0	40 017/08(6		30-Dec-21	26-Oct-21	10-Dec-21	-15	0%			Cons	struction of	of Deck	Structure	e Bay 3						
Lift and Staircase		820	636		16-Sep-19 A			-	378											24-Ju	un-2¦2, Li	ft and	
Treating Works for T Bo	H (5nos, 10D/pile+5D TRA, 1-3rigs)	148 68	142 64	V	16-Sep-19 A 18-Sep-19 A	01 1001 20	21710921	00 000 20													-		
PORILLS.PD1010	Predrilling for PBSH at Lift and Staircase (PD09)	15	11		21-Nov-19 A		27-Aug-21 27-Aug-21	27-Aug-21 27-Aug-21	5	100%						-					-		
PORILS.PD1020	Predrilling for PBSH at Lift and Staircase (PD94)	15	9		18-Sep-19 A		27-Aug-21	27-Aug-21	5	100%		•••						-		8			-
Rig 2	5 (-)	148	142		16-Sep-19 A	07-Mar-20	27-Aug-21	30-Sep-23															
PORILS.PD1030	Predrilling for PBSH at Lift and Staircase (PD10)	15	14	0 017/08(6	16-Sep-19 A	02-Oct-19	27-Aug-21	27-Aug-21	5	100%											i		
PORILLS.PD1040	Predrilling for PBSH at Lift and Staircase (PD95)	15	7	0 017/08(6	29-Feb-20 A	07-Mar-20	27-Aug-21	27-Aug-21	5	100%											-		
PORI.LS.PD1040-0	Demobilization of Rig 2 off site	1	1	0 017/08(6	07-Mar-20 A	07-Mar-20	30-Sep-23	30-Sep-23	0	100%													
PORILLS.PD1050	Predrilling for PBSH at Lift and Staircase (PD96)	15	11		03-Oct-19 A	16-Oct-19	27-Aug-21	27-Aug-21	5	100%	II T						T			ii T			
Rig 5		0	0	0 247/00/0	02 1 1 00 1	00.0	07.4	04.0	0														
Construction of PBSH (14 PORILS.HP0900	nos, 7D/pile, 1 rig) Mobilization of PBSH rig	84 10	71 10		03-Jul-20 A 03-Jul-20 A		27-Aug-21 27-Aug-21	04-Dec-21 27-Aug-21	0	100%													
PORILIS.HP0900	Construction of PBSH (10nos,7D/pile,1 rig)	49	36		13-Aug-20 A	23-Sep-2(04-Dec-21	27-Aug-21 04-Dec-21	0	100%												1	
PORILIS.HP1000	Construction of PBSH (Tonos,7D/pile,1 rig) Construction of PBSH (5nos,7D/pile,1 rig)	21	23		13-Aug-20 A 15-Jul-20 A	· ·	27-Aug-21		0	100%	╟╟╌╢	╋╋┝	·		++ -		·		 -	8 - -			-
Excavation to Pile Cap Le		10	10	-	09-Mar-21 A	19-Mar-21	-	04-Dec-21		.8mPl											-		
PORILLS.EX1010	Excavation to Pile Cap Level (+5.0mPD to +2.8mPD)	10	10	· · · ·	09-Mar-21 A				0	100%													
Construction of Pile Caps		23	55		20-Mar-21 A					ps (5 P	C 140	/Cap, 3	teams)									1	
PORI.LS.PC1000	Construction of Pile Caps (5PC, 14D/cap, 3 teams)	23	55	0 017/08(6	20-Mar-21 A	31-May-21	04-Dec-21	04-Dec-21	0	100% cap, 3	leams)												
Construction of Column (4		36	66	`	11-Jun-21 A			04-Dec-21		A, Co			olumn (4p		1 I I I		/ TT			II T			ĺ
PORILLS.CO1000	Construction of Columns (4 columns, 18D/column, 2teams)	36	66		11-Jun-21 A	-		04-Dec-21	0	100% on of (-		
	ation Level (+2.8mPD to +4.4mPD) (6 Layers, 5D/layer)	30	4		04-Jun-21 A			04-Dec-21		Forma		el 1 28	mPD to +	4.4mPD)	(6 Lave	ers, 5D/la	yer)						
PORILS.BF1010	Backfilling to Interim Formation Level (+2.8mPD to +4.4mPD)	30	4		04-Jun-21 A			04-Dec-21	67	100% /el (+2										34	in 22 C	onot	
Construction of Lift and Si PORI.LS.1060	Construction of Lift Structure	203 120	113 113	184 017/08(6 10 017/08(6	24-Jun-21 A 24-Jun-21 A	24-Jun-22 18-Nov-21	18-Aug-21 04-Dec-21	30-Mar-22 15-Dec-21	-67 23 0	91.67%		Constr	ction of Li	i Structu	Jre				-11-7	24-JU	ın-22, C	JIISUJUC	-
PORILES. 1060	Construction of Staircase Structure	120	0	100 017/08(6		10-Mar-22	18-Aug-21	15-Dec-21	-67	0%		FT FT		induciu	+	Construct	tion of F	Staircase	Stuc	ture	-	-	
PORILS.1070	Cabling and Energizing by C1	30	0	30 017/08(6		23-Dec-21	10-Feb-22	16-Mar-22	65 0	0%			Cabling	and Ene	errizina	1 by C1							
	Testing and Commissioning	12	0	12 017/08(6		17-Mar-22	17-Mar-22	30-Mar-22	11 0	0%	II T		1		H	Testing	and Cr	orrmissi	onina	÷		-	
PORILS.1080			-								11 I I	1111	1				·+		+++ ² 1:	4 📕	:	-	
PORILS.1080 PORILS.1090	Sump Pit and associated drainage	28	0	28 017/08(6	11-Mar-22	13-Apr-22	16-Dec-21	20-Jan-22	-67	0%		:: :	1 :	; I	!		Sum	Fil and	assodia	ated	1rainaσ∈	۹ (L	

Actual Level of Effort Actual Work Remaining Work



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Contract No.: NE/2017/08 Cross Bay Link, Tseung Kwan O **Road D9 and Associated Works** Page 15 of 26

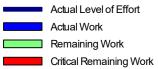


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	Activity Name		Actual Remaini		Start	Finish	Late Start	Late Finish	Total TRA									2022		
	and Desinger Diversion of Evision 4500 and in 1 - Object 4510 and 201		nation Durati	_	06.0-+ 00.1	22.0-1.00	02.0 01	02.0 01	Float	Complete Oct	Nov	Dec	Jan	Feb	Mar	Apr M	/ay Ju	un .	Jul	Aug
 PORIII.ED.GD.0190 PORIII.ED.GD.0210 	2nd Drainage Diversion of Existing 1500mm pipe from SMH011 ELS to SMH Further Excavation and Installation of ELS (lagging) to +0.83mPD for SMH01	14	15 9		06-Oct-20 A 23-Oct-20 A	22-Oct-20 03-Nov-20	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0	100% 100% MI052										
PORIILED.GD.0210	Further Excavation and Installation of ELS (lagging) to +0.31mPD for SMH01	10	-		22-Dec-20 A	20-Jan-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0	100% 10052				M052)						
PORII.ED.GD.0220	Construction of Manhole SMH011 (1st Portion) (below +2.9mPD) (PMI052)	17	45		05-Nov-20 A	29-Dec-20	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0	100 % 12 110	T''Y		VGE 100, F	1/1032)						
PORII.ED.GD.0230		10			12-Mar-21 A	23-Mar-21	02-Sep-21 02-Sep-21		0	100 %										
	Construction of Manhole SMH012 (1st Portion) (below +2.9mPD) PMI052)	10						02-Sep-21	0	100% 9/11/2		* **								
 PORIII.ED.GD.0250 PORIII.ED.GD.0250-01 	Backfilling for SMH011 to +2.3mPD (PMI052) Excavation to +2.3mPD for PC30 (PMI052)	4			30-Dec-20 A 05-Jan-21 A	04-Jan-21 09-Jan-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0	100%										
PORIILED.GD.0250-01	Removal of Struts in ELS for SMH011 and Cutting of Sheet Piles at +2.3mP	4			03-Jan-21 A 04-Jan-21 A	11-Jan-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0	100% 100% PM052	I II									
PORIILED.GD.0200	Backfilling for SMH012 to +2.3mPD (PMI052)	10		· ·	12-Mar-21 A	23-Mar-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0	100%	1									
PORIII.ED.GD.0270-01	Excavation to +2.3mPD for PC18 (PMI052)	4			24-Mar-21 A	27-Mar-21	02-Sep-21	02-Sep-21	0	100%										
PORIILED.GD.0270-01	Removal of Struts in ELS for SMH012 and Cutting of Sheet Piles at +2.3mP	4			29-Mar-21 A	01-Apr-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0	100 %			(PMI052)	÷+						
PORIILED.GD.0280	Excavate to +2.3mPD for Grid 3	5			09-Mar-21 A	13-Mar-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0	100%		2011	(FIVII032)							
PORIII.ED.GD.1010-02		8			17-Nov-20 A	25-Nov-20		27-Aug-21	0	100%										
PORIII.ED.GD.1010-02		8			14-Jan-21 A	19-Jan-21	02-Sep-21	02-Sep-21	0	100%										
PORIILED.GD.1010-03		8	8		07-Apr-21A	15-Apr-21	02-Sep-21	02-Sep-21	0	100 %		(FMI052								
PORIILED.GD.1010-04		8	5		16-Jan-21 A	21-Jan-21	02-Sep-21	02-Sep-21	0	100%	F f		·/	·			+++-			
PORIII.ED.GD.1010-05		8	6		16-Nov-20 A	21-Nov-20	27-Aug-21	27-Aug-21	0	100%										
PORIILED.GD.1010-00	Construction of PC30 (PMI052)	9	10		20-Jan-21 A	30-Jan-21	02-Sep-21	02-Sep-21	0	100 %										
PORIII.ED.GD.1020	Construction of PC28 (PMI052)	9	8	· ·	27-Nov-20 A	05-Dec-20		27-Aug-21	0	100%										
PORIILED.GD.1021	Construction of PC26 (PMI052)	9	-	· ·	26-Nov-20 A	05-Dec-20	27-Aug-21	27-Aug-21	0	100%										
PORIILED.GD.1022	Construction of PC24 (PMI052)	9			25-Nov-20 A	05-Dec-20	27-Aug-21 27-Aug-21	27-Aug-21	0	100%	┞╌╂	•		·						
PORIII.ED.GD.1023	Construction of PC22 (PMI052)	9			23-Nov-20 A	05-Dec-20	-	27-Aug-21 27-Aug-21	0	100%										
PORIII.ED.GD.1024	Construction of PC22 (PMI052) Construction of PC20 (PMI052)	9	33	· ·	28-INOV-20 A 16-Apr-21 A	27-May-21	02-Sep-21	02-Sep-21	0	100%										1
PORIII.ED.GD.1025	Construction of PC18 (PMI052)	9		· ·	16-Apr-21 A	27-Way-21 26-May-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0	100%										
PORIII.ED.GD.1026		9			19-Dec-20 A	07-Jan-21	02-Sep-21 02-Sep-21		0	100%										
PORIII.ED.GD.1027 PORIII.ED.GD.1028	Construction of PC16 (PMI052)	9			19-Dec-20 A 23-Dec-20 A			02-Sep-21	0	100%	<u></u> ⊦-∦	╋╋					#+-			·····-
PORIII.ED.GD.1028	Construction of PC14 (PMI052) Backfilling to Interim Formation Level by Rolling (7 Layers, 1.5D/Layer) (Grid	9				07-Jan-21 17-May-21	02-Sep-21 02-Sep-21	02-Sep-21	0	100% Rolling	ال ا	C I ET	Layer) (Gri	id D)						
PORIII.ED.GD.1030	Backfilling to interim Formation Level by Rolling (7 Layers, 1.5L/Layer) (Grid Construction of Column at PC30	11			05-May-21 A 13-Mar-21 A	17-May-21 09-Apr-21	02-Sep-21 02-Sep-21	02-Sep-21	0	100% kolling /	La	as (13L//	Layer)(Gh	μu)						
PORIII.ED.GD.1050	Construction of Column at PC30 Construction of Column at PC28	10			13-Mar-21 A 19-Jan-21 A	10-Feb-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0	100%										
PORIII.ED.GD.1080	Construction of Column at PC28 Construction of Column at PC26	10		· · ·	19-Jan-21 A 19-Jan-21 A	29-Jan-21	02-Sep-21 02-Sep-21	02-Sep-21 02-Sep-21	0	100%										1
PORIILED.GD.1070	Construction of Column at PC26	10			19-Jan-21 A		02-Sep-21 07-Sep-21		0	100%	┞╌╂	.		++						
PORII.ED.GD.1080	Construction of Column at PC22	10			19-Jan-21 A	29-Jan-21 23-Jul-21	07-Sep-21 07-Sep-21	07-Sep-21 07-Sep-21	0	100 % nn at PC	2									
PORIILED.GD.1000	Construction of Column at PC22	10			27-Apr-21 A	23-Jul-21	07-Sep-21 07-Sep-21	07-Sep-21 07-Sep-21	0	100 % in at P										
PORIILED.GD.1110	Construction of Column at PC18	10			27-Apr-21 A	08-May-21	07-Sep-21	07-Sep-21	0	100%	1 1									
PORIILED.GD.1110	Construction of Column at PC16	10	10		15-Mar-21 A	25-Mar-21	07-Sep-21 07-Sep-21	07-Sep-21	0	100%										
PORIILED.GD.1120	Construction of Column at PC14	10	10		15-Mar-21 A	25-Mar-21	07-Sep-21 07-Sep-21	07-Sep-21 07-Sep-21	0	100 %	┞╌╂	•		· { {·						
_	D) + Abutment 2B (28D) + Bearing hstallation (14D)	292	292		15-Apr-20 A	09-Apr-21	08-Sep-21	30-Sep-23	U U	t 2B (2			; stalation ((140)						
PORIII.AB2B.1000	Excavation to Pile Cap Founding Level (Abutment 2B)	10		`	15-Apr-20 A	12-Jun-20	08-Sep-21	08-Sep-21	0	100%	T′ 11			(1-12)						
PORIII.AB2B.1002	Trimming of Bored Pile Head (3nos) (Abutment 2B)	15			04-May-20 A	24-Jun-20	08-Sep-21	08-Sep-21	0	100%										
PORIII.AB2B.1005	Construction of PC42	16			26-Jun-20 A	09-Jul-20	08-Sep-21	08-Sep-21	0	100%										
PORIII.AB2B.1007	Backfilling to Interim Formation Level (7 Layers, 5D/Layer) (Abutment 2B)	35		· ·	13-Jul-20 A	31-Jul-20	30-Sep-23	30-Sep-23	0	100%	1-1			1						
PORIII.AB2B.1010	Construction of Abutment 2B (1st pour)	14	25	0 017/08(6	13-Jul-20 A	10-Aug-20	08-Sep-21	08-Sep-21	0	100%										
PORIII.AB2B.1010-01	Construction of Abutment 2B (2nd pour)	14			01-Dec-20 A	16-Dec-20	08-Sep-21	08-Sep-21	0	100%										
PORIII.AB2B.1020	Bearing Installation at Abutment 2B	14	14	0 017/08(6	20-Mar-21 A	09-Apr-21	08-Sep-21	08-Sep-21	0	100%										
Construction of Beam/Slal	b (11bays, 30D/bay incl. topping, 6 teams)	330	190 1	88 017/08(6	23-Mar-21 A	29-Jun-22	02-Sep-21	14-Apr-22	-59		┝╴╫		-	-		_	╋┿┿╸	2	29-Jun 22	2, Const
PORIII.ED.PB1009	Scaffolding Erection for Beam+Slab Bay 4	12	52	0 017/08(6	23-Mar-21 A	29-May-21	02-Sep-21	02-Sep-21		100% ay 4										
PORIII.ED.PB1010	Construction of Beam+Slab Bay 4	28	40	0 017/08(6	20-May-21 A	08-Jul-21	02-Sep-21	02-Sep-21	0	100% ab Bay										
PORIII.ED.PB1011	Construction of 1m wall & parapet at deck at Bay 4	28	34	28 017/08(6	27-Sep-21 A	09-Dec-21	02-Sep-21	06-Oct-21	-54	0%		i Co	nstruction	of 1m wal	ll & parapet	at deck at	t Bay 4			
PORIII.ED.PB1019	Scaffolding Erection for Beam+Slab Bay 3	12	31	0 017/08(6	28-May-21 A	06-Jul-21	07-Sep-21	07-Sep-21		100% am+S	i Bay									
PORIII.ED.PB1020	Construction of Beam+Slab Bay 3	28	43	0 017/08(6	06-Jul-21 A	25-Aug-21	07-Sep-21	07-Sep-21	0	100% h of B	n+\$i	ар Вау В								
PORIII.ED.PB1021	Construction of 1m wall & parapet at deck at Bay 3	28	32	0 017/08(6	27-Sep-21 A	05-Nov-21	07-Oct-21	07-Oct-21		100%	Con	sinucion	of 1m wall	l & parape	t at deck at	Bay 3				
PORIII.ED.PB1029	Scaffolding Erection for Beam+Slab Bay 1	20	49	0 017/08(6	16-Aug-21 A	15-Oct-21	07-Sep-21	07-Sep-21		100% So	iddin	e Erectio r	n for Beam	n+Slab Ba	y 1					
PORIII.ED.PB1030	Construction of Beam+Slab Bay 1	28	34	1 017/08(6	27-Sep-21 A	08-Nov-21	07-Sep-21	07-Sep-21	-50 0	96.43%	đ	inglation	n of Beam	+Slab Bay	/1					
PORIII.ED.PB1031	Construction of 1m wall & parapet at deck at Bay 1	28	0	28 017/08(6	09-Nov-21	10-Dec-21	08-Sep-21	12-Oct-21	-50	0%	Ħ		onstruction	of 1m wa	ll & parapet	tatdecka	t Bay 1			
PORIII.ED.PB1039	Scaffolding Erection for Beam+Slab Bay 2	12	44	0 017/08(6	19-Aug-21 A	12-Oct-21	08-Sep-21	08-Sep-21		100% Scaff			for Beam-							
PORIII.ED.PB1040	Construction of Beam+Slab Bay 2	28	25	0 017/08(6	13-Oct-21 A	12-Nov-21	08-Sep-21	08-Sep-21	0	100%		instructio	on of Beam	n+Slab Ba	y 2	T I				
PORIII.ED.PB1042	Construction of 1m wall & parapet at deck at Bay 2	28	0	28 017/08(6	19-Nov-21	21-Dec-21	08-Sep-21	12-Oct-21	-59	0%	┝╸╡		Construct	tion of 1m	wal & para			1 1 1		
PORIII.ED.PB1050	Laying of Concrete Barrier & Cable Duct	45	0	45 017/08(6	10-Dec-21	07-Feb-22	07-Oct-21	29-Nov-21	-54	0%				📕 Layin	ng of Concre	ete Barrier	8 Cable I	Duot		
PORIII.ED.PB1055	Drawpit and Cable duct laying for TCSS and Lighting	45	0	45 017/08(6	22-Dec-21	18-Feb-22	21-Jan-22	18-Mar-22	24	0%		 + □			rawpit and (Cable duc	t aying for	r TCSS	and Ligh	iting
PORIII.ED.PB1060	MJ Installation	40	0	40 017/08(6	22-Dec-21	12-Feb-22	13-Oct-21	29-Nov-21	-59	0%		L ∦ ┣+■		MJ MJ	Installation					
PORIII.ED.PB1070	Water Proofing	60	0	60 017/08(6	14-Feb-22	28-Apr-22	30-Nov-21	14-Feb-22	-59	0%				L-			aler Propfi	irg		
PORIII.ED.PB1080	Road Pavement	50	0	50 017/08(6	29-Apr-22	29-Jun-22	15-Feb-22	14-Apr-22	-59	0%								R	Road Pav	/ement
Drainage Works		253		`	16-Nov-20 A	04-Mar-22	20-Nov-21	14-Apr-22	34		┝╫				🗸 04-Mar-2	2, Drainag	je Works			
PORIII.ED.DRA1110	Construction of Drainage SMH109 to SMH012	45	121		16-Nov-20 A	17-Apr-21	20-Nov-21	20-Nov-21	0	100%										
PORIII.ED.DRA1120-01	Construction of Manhole SMH011 (2nd Portion) (above +2.9mPD) (PMI052)	10	10	0 017/08(6	27-May-21 A	08-Jun-21	20-Nov-21	20-Nov-21	0	100% 2nd Fo			2.9mPD) (F					<u> </u>		
PORIII.ED.DRA1120-02		10	10	-	08-Jun-21 A	21-Jun-21	20-Nov-21	20-Nov-21	0		Porti	n (abov	/e +2.9mP	D) (PMI052	2)					
PORIII.ED.DRA1130-01		30		30 017/08(6		11-Dec-21	20-Nov-21	28-Dec-21	12 0	0%	Ħ	C C	onstruction	of Draina	ge Pipe bet		H012 and	SMH01	11	
PORIII.ED.DRA1140	Laying of Water Main	45		45 017/08(6		09-Feb-22	28-Dec-21	23-Feb-22	12 0	0%			-	Layir	ng of Water	Main				
PORIII.ED.DRA1150	Civil Provision for TCSS	20		20 017/08(6		04-Mar-22	23-Feb-22	18-Mar-22	12	0%				-	Civil Prov	ision for T	CSS			-
PORIII.ED.DRA1160	Laying of Ducting for Road Lightings	20		20 017/08(6		04-Mar-22	23-Feb-22	18-Mar-22	12	0%	ĻШ			-	Laying of	f Ducting f	for Road L	ightings	3	
PORIII.ED.DRA1170	Road Paving	40		40 017/08(6		23-Dec-21	26-Feb-22	14-Apr-22	89	0%	Ħ	₽₩₽	Road Pa	iving		T	II T			
	e Enclosure (CH13360.1 to CH13482.1) (Portion II + III)	82		82 017/08(6		01-Mar-22	05-Jan-22	14-Apr-22	37		1				0 -Mar-22 of Semi-Nois	2, C onstruc	sion of Se	eini Nois	se Endos	sure (C
PORIII.ED.NE1020	Construction of Semi-Noise Enclosure CH13376.082 to CH13482.101 Main	41	0	41 017/08(6	19-Nov-21	08-Jan-22	05-Jan-22	24-Feb-22	37 0	0%			Con	struction of	of Semi-Nois	se Enclosi	JIC CH133	376,082	0 CH13	J482.10
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Actual Level of Effor	rt 🔶 Milestone					Contra	ct No.: N	NE/2017/	08		3	-						Date		
Actual Work	summary in the summary	工程拓	屈睪		C	ore Dav	Link T	soung V.	van O			1						Mar-2		Mont
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Remaining Work		Engineeri		4d	R	oad D9	and Asso	ociated V	Vorks			D.			Ki	-	- 09	Jul_21	t	Mont
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nig 6									0	Oct	Nov	De	c Jan	Feb N	Mar	Apr	May	Jun	Jul	Aug	Sep
	e PBSH (40 nos, 7D/pile, 1-2 rigs)				27-Aug-19 A	17-Apr-20	27-Aug-21	03-Sep-21													
PORIII.UT.HP1010	Alternative PBSH (7D/pile, UP40,35,38,33,36,31,26,21,28,16,11,15,10,13,6	28	93 0	0 017/08(6	27-Aug-19 A	16-Dec-19	27-Aug-21	27-Aug-21	0	100%									,		
PORIII.UT.HP1020	Alternative PBSH (7D/pile, UP30,37,32,23,25,20,18,27,22,17,12,14,19,24,2	45	82 0	0 017/08(6	15-Oct-19 A	21-Jan-20	03-Sep-21	03-Sep-21	0	100%										1	
PORIII.UT.HP1410	Pile Loading Test (28D Concrete Cube + 14D Setup)	33			06-Apr-20 A	17-Apr-20	03-Sep-21	03-Sep-21	0	100%			1								
Construction of U-trough PORIILUT.ST1010	Structure Excavation to Pile Cap Founding Level (+4.4mPD to +3.8mPD)(2000m3)	637 ·	488 187 72 0		16-Mar-20 A 16-Mar-20 A	28-Jun-22 13-Jun-20	28-Aug-21 03-Sep-21	30-Sep-23 03-Sep-21	375	100%									28 Jun	1-22, Cons	structio
PORIILUT.ST1025	Trimming of Pile Head and Installation of Capping Plate	60			06-May-20 A	04-Jul-20	03-Sep-21	03-Sep-21	0	100%											
PORIILUT.ST1035	Review Design on U-trough Structure due to Additional Design Requirement				06-Jul-20 A	21-Oct-20	03-Sep-21	03-Sep-21	0	100%			1							1	
PORIILUT.ST1100	Construction of Base Slab Bay 1	18		· ·	03-Sep-20 A	21-Sep-2(03-Sep-21	03-Sep-21	0	100%										1	
PORIILUT.ST1105	Site Clearance for U-trough Bay 2 to Bay 5 (NCE119)	4			22-Oct-20 A	27-Oct-20	30-Sep-23	30-Sep-23	0	100%											
PORIILUT.ST1107	Excavation to Revised Formation Level and Construction of New Blinding for	10			28-Oct-20 A	13-Nov-20	03-Sep-21	03-Sep-21	0	100%										1	
PORIILUT.ST1110	Construction of Base Slab Bay 2	18			14-Nov-20 A	30-Nov-20	03-Sep-21	03-Sep-21	0	100%											
PORIILUT.ST1115	Excavation to Revised Formation Level, Construction of New Blinding for Ba	10			30-Oct-20 A	03-Dec-20	03-Sep-21	03-Sep-21	0	100%											
PORIILUT.ST1117	Re-construction of Capping Plate for Bay 3	10			02-Dec-20 A	14-Dec-20	03-Sep-21	03-Sep-21	0	100%										1	
PORIILUT.ST1120	Construction of Base Slab Bay 3	18	12 0	0 017/08(6	15-Dec-20 A	30-Dec-20	03-Sep-21	03-Sep-21	0	100%										-	
PORIILUT.ST1125	Re-construction of Capping Plate for Bay 4	10	13 0	0 017/08(6	15-Dec-20 A	31-Dec-20	03-Sep-21	03-Sep-21	0	100%											
PORIILUT.ST1130	Construction of Base Slab Bay 4	18	9 0	0 017/08(6	07-Jan-21 A	16-Jan-21	03-Sep-21	03-Sep-21	0	100%										·+	1
PORIILUT.ST1150	Construction of Internal Wall Stem Bay 1	14	12 0	0 017/08(6	14-Apr-21 A	28-Apr-21	03-Sep-21	03-Sep-21	0	100%											
PORIILUT.ST1160	Construction of Internal Wall Stem Bay 2	14	14 0	0 017/08(6	22-Feb-21 A	09-Mar-21	03-Sep-21	03-Sep-21	0	100%										1	
PORIILUT.ST1170	Construction of Internal Wall Stem Bay 3	14		· ·	18-May-21 A	03-Jun-21	03-Sep-21	03-Sep-21	0	100% ay 3											
PORIILUT.ST1180	Construction of Internal Wall Stem Bay 4	11			01-Apr-21 A	17-Apr-21	03-Sep-21	03-Sep-21	0	100%											
PORIILUT.ST1190	Construction of Internal Wall Stem Bay 5	14			13-Apr-21 A	11-May-21	03-Sep-21	03-Sep-21	0	100%		<u>∦</u> ∦∦						计管			
PORIILUT.ST1200	Construction of External Wal Stem Bay 1 (Sea Side)				08-May-21 A	13-Nov-21	28-Aug-21	03-Sep-21	-58 0	60%	i i	onstruk	tion of Exte	mal Wall Ste	m Bav	1 (Sea Sic	e)				
PORIILUT.ST1210	Construction of External Wall Stern Bay 2 (Sea Side)	14			26-May-21 A	18-Jun-21	04-Sep-21	04-Sep-21	0	100% em	B y 2 (S	a side								1	
PORIILUT.ST1220	Construction of External Wall Stern Bay 3 (Sea Side)	14			29-Nov-21	14-Dec-21	25-Sep-21	12-Oct-21	-53 0	0%	ŤŤ		Constructio	n of External	Wals	stem Bay?	(Sea Sir	e)			
PORIILUT.ST1230	Construction of External Wall Stern Bay 1 (Land side)	14	•	-	03-May-21 A	18-May-21	04-Sep-21	04-Sep-21	0	100% (La	nteide					, 0			, I		
PORIILUT.ST1240	Construction of External Wall Stern Bay 2 (Land side)				23-Jun-21 A	16-Nov-21	04-Sep-21	06-Sep-21	-58 0	85.71%		Constru	cton of Exte	ernal Wall Ste	em Bav	v 2 (Land s	de				
PORIILUT.ST1241	Construction of External Wall Stern Bay 3 (Land side)	4			16-Nov-21	20-Nov-21	07-Sep-21	10-Sep-21	-58	0%				ternal Wall S		· ·					
PORIILUT.ST1242	Excavation to Revised Formation Level, Construction of New Blinding for Ba	10			09-Mar-21 A	19-Mar-21	03-Sep-21	03-Sep-21	0	100% w B	lindina fo	Bave					l í l			1	
PORIILUT.ST1243	Construction of Base Slab Bay 5	18			08-Nov-21	27-Nov-21	03-Sep-21	24-Sep-21	-53 0	0%			struction of I	Base Slab Ba	av 5						
PORIILUT.ST1244	Construction of Internal Wall Stem Bay 6	14		4 017/08(6		14-Dec-21	25-Sep-21	12-Oct-21	-53 0	0%				n of Internal		tem Bav 6				1	
PORIILUT.ST1250	Backfilling from +5.9mPD to +8.2mPD (8layers, 5D/layer)				26-Jun-21 A	07-Dec-21	24-Sep-21	28-Sep-21	-58 0	95%	1			m +5.9mPD	to +8.2	2mPD (8lav	ers 5D/k	ivel)			
PORIILUT.ST1260	Concrete Barrier and Laying of Cable Duct	60			04-Jan-22	18-Mar-22	26-Oct-21	06-Jan-22	-58	0%	\mathbf{T}		4		-0	oncrete Bar	rierand I	aving	of Cable	e Duct	-
PORIILUT.ST1270	Road Paving	80			18-Mar-22	28-Jun-22	07-Jan-22	14-Apr-22	-58	0%					i i i i i i i i i i i i i i i i i i i		لنسالها		Road F		
Drainage Works	5				07-May-21 A	01-Apr-22	15-Dec-21	14-Apr-22	11		┽┽┽		-			01-Apr-2	2, Graina	ge Work			1
PORIII.UT.DRA2020	Construction of Drainage SMH011 to SMH010	45	130 0	0 017/08(6	07-May-21 A	12-Oct-21	15-Dec-21	15-Dec-21	0	100% C	orstruct	n of D	ainage SMH	011 to SMH0	0 0						1
PORIII.UT.DRA2030	Construction of Drainage SMH010 to SMH009	45	59 7	7 017/08(6	27-Aug-21 A	10-Dec-21	15-Dec-21	22-Dec-21	11 0	85%		N	Construction	of Drainage	SMH01	10 to SMH	00				
PORIII.UT.DRA2050	Laying of Watermains	45	0 45	5 017/08(6	10-Dec-21	08-Feb-22	23-Dec-21	19-Feb-22	11 0	0%		1177-1		Laying	of Wat	termains					-
PORIII.UT.DRA2060	Laying of Ducting for Power Cable	45	0 45	5 017/08(6	10-Dec-21	08-Feb-22	23-Dec-21	19-Feb-22	11	0%		║┡				ting for Po Road Pa	ver Cable				
PORIII.UT.DRA2070	Road Paving	45	0 45	5 017/08(6	08-Feb-22	01-Apr-22	21-Feb-22	14-Apr-22	11	0%			8	• 	t i i i i i i i i i i i i i i i i i i i	Road Pa	vinc			5 5 5	
Construction of Semi-Nois	se Enclosure (CH13482.1 to 13580.3), Sign Gantry and Directional Sign	133	0 133	3 017/08(6	07-Dec-21	25-May-22	29-Sep-21	14-Apr-22	-30											struction o	
PORIII.UT.NB1020	Construction of Semi-Noise Enclosure CH13482.101 to 13576.309 Main Fra	75		5 017/08(6			29-Sep-21	29-Dec-21	-58 0	0%			:	: -	Conist	struction of					1
PORIILUT.NB1030	Construction of Semi-Noise Enclosure CH13482.101 to 13576.309 Sub Frar	75		5 017/08(6		18-Mar-22	07-Oct-21	06-Jan-22	-58 0	0%						onstruction					
PORIII.UT.NB1040	Excavation and Construction of Directional Sign Footing DS1	14			11-Mar-22		05-Feb-22	21-Feb-22	-30 0	0%				-		Excavation	and Co	nstrucție	on of Di	rectional	Sign I
PORIII.UT.NB1050	Backfilling to Formation Level	20	0 20	0 017/08(6	11-Mar-22	04-Apr-22	26-Feb-22	21-Mar-22	-12 0	0%				-	-	Backfillir	g io For	natonil	Level	1	
PORIII.UT.NB1060	Installation of Directional Sign and Steel Frame	10	0 10	0 017/08(6	04-Apr-22	20-Apr-22	22-Mar-22	01-Apr-22	-12 0	0%				ļ		linst	allation o	f Directi	ional Sig	gn and St	ieel Fr
PORIII.UT.NB1070	Excavation and Construction of Directional Sign Footing DS2	14			28-Mar-22	14-Apr-22	22-Feb-22	09-Mar-22	-30 0	0%					-	Extra	vation an	d Conis	truction	of Directir	dnal S
PORIII.UT.NB1080	Backfilling to Formation Level	20			14-Apr-22	13-May-22	10-Mar-22	01-Apr-22	-30 0	0%						-				tion Level	
PORIII.UT.NB1090	Installation of Directional Sign and Steel Frame	10			13-May-22	25-May-22	02-Apr-22	14-Apr-22	-30 0	0%						4	n in	stalatio	n of Dire	ectional S	ign ar
e Protection Works (Port					02-May-19 A	25-Jul-19,	14-Apr-22	14-Apr-22			\parallel						ЦĽ				
TP1020	Tree Transplant Works	88		_	02-May-19 A	25-Jul-19,	14-Apr-22	14-Apr-22	0	100%				ĮĮ			11.1				
dification of Seawall (Por	· · · · · · · · · · · · · · · · · · ·						23-Sep-21	30-Sep-23	495					27-Jan-22,	, Modific	cation of S	eavall (P	ortion II	i an <mark>d</mark> III)		
Weather Protection System					01-Dec-18 A			30-Sep-23											,		
SW1010	Site Trial for Weather Protection System	2			01-Dec-18 A		30-Sep-23	30-Sep-23	0	100%											
SW1020	Installation of Temporary Wave Form Wall for Weather Protection (1st layer)	48			01-Feb-19 A		30-Sep-23	30-Sep-23	0	100%										1	
SW1030	Installation of Temporary Wave Form Wall for Weather Protection (2nd layer)	14			02-Apr-19A		30-Sep-23	30-Sep-23	0	100%				ļ							
Seawall Modification Type 1					13-Apr-21 A	27-Jan-22	06-Nov-21	27-Jan-22	-1	1000				27-Jan-22,	, Seawa	all Modifica	tion Type	1			
SW.WWI.1010	Break Concrete Copping for Bay 1	14			13-Apr-21 A	28-Apr-21	06-Nov-21	06-Nov-21		100%											1
SW.WWI.1020	Break Concrete Copping for Bay 2	14			16-Apr-21 A	03-May-21	06-Nov-21	06-Nov-21		100%										1	
SW.WWI.1030	Break Concrete Copping for Bay 3	14			22-Apr-21 A	08-May-21	10-Nov-21	10-Nov-21		100%										1	
SW.WWI.1040	Break Concrete Copping for Bay 4	14			19-Apr-21 A	05-May-21	10-Nov-21	10-Nov-21		100%		.		ļ	- 		[.				
SW.WWI.1050	Break Concrete Copping for Bay 5	14		-	17-Apr-21 A	04-May-21	10-Nov-21	10-Nov-21		100%									, I		
SW.WWI.1060	Break Concrete Copping for Bay 6	14			26-Apr-21 A	12-May-21	10-Nov-21	10-Nov-21		100%										1	
SW.WWI.1070	Break Concrete Copping for Bay 7	14		0 017/08(6	05-May-21 A	21-May-21	10-Nov-21	10-Nov-21		100%	_		-								
SW.WWI.1080	Break Concrete Copping for Bay 8	14	14 0	0 017/08(6	14-May-21 A	31-May-21	10-Nov-21	10-Nov-21		100%										1	
SW.WWI.1090	Break Concrete Copping for Bay 9	14	14 0	0 017/08(6	24-May-21 A	08-Jun-21	24-Nov-21	24-Nov-21		100%											
SW.WWI.1100	Break Concrete Copping for Bay 10	14	0 14	4 017/08(6	08-Nov-21	23-Nov-21	03-Dec-21	20-Dec-21	23	0%		Brea	Concrete C	opping for B	ay 10				I		
SW.WWI.1110	Construction of Seawall Modification Type I Bay 1 (1st Pour)	12	40 0	0 017/08(6	08-May-21 A	26-Jun-21	06-Nov-21	06-Nov-21		100% icati		- B : 1								-	
	Construction of Seawall Modification Type 1 Bay 1 (2nd Pour)	12	20 0	0 017/08(6	28-Jun-21 A	21-Jul-21,	06-Nov-21	06-Nov-21		100% all M	o lifica tio	а Туре	1 Bạy 1 (2nd	Pour)						1	
					04.0	12 Nov 21	13-Nov-21	20-Nov-21	6			1		wall Modificat	tion Two	an 1 Paul 1			. 1	1	1
SW.WWI.1111	Construction of Seawall Modification Type 1 Bay 1 (Coping)	6	36 6	5 017/08(6	24-Sep-21 A	13-Nov-21	13-1404-21	201100-21	0	0%		prisque	Nort of Ocu	ion mouniour	upii iye	Je i Day i	(Orbinia)		' 	-	
SW.WWI.1111 SW.WWI.1112 SW.WWI.1120	Construction of Seawall Modification Type 1 Bay 1 (Coping) Construction of Seawall Modification Type I Bay 2 (1st Pour)	6 12			24-Sep-21 A 28-Jun-21 A	16-Jul-21	06-Nov-21	06-Nov-21	0	100% Mo		8	Bay 2 (1st Po		u i i i j	Je i Day i	(Cipilig)				



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CEDD 土木工程拓展署 Civil Engineering and Development Department Contract No.: NE/2017/08 Cross Bay Link, Tseung Kwan O Road D9 and Associated Works Page 21 of 26



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	Activity Name			maining Calendar Start	Finish	Late Start	Late Finish	Total TRA	Activity %											20	2022				_							2	2023		
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SW.WWI.1122	Construction of Seawall Modification Type I Bay 2 (Coping)	6	0	6 017/08(6 22-Nov-21	27-Nov-21		27-Nov-21	-1	0%		lification	onstructi				cation	Type I t	3ay2	(Copi	ng)															
SW.WWI.1130 SW.WWI.1131	Construction of Seawall Modification Type I Bay 3 (1st Pour) Construction of Seawall Modification Type I Bay 3 (2nd Pour)	12	12 23	0 017/08(6 16-Jul-21 A 0 017/08(6 30-Jul-21 A	30-Jul-21	10-Nov-21 19-Nov-21	10-Nov-21 19-Nov-21		100% a 100% n			Type I Ba fication 1										;		:					:						
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SW.WWI.1132	Construction of Seawall Modification Type I Bay 3 (Coping)	6	-	6 017/08(6 29-Nov-21		27-Nov-21	04-Dec-21	-1				Constru					1 Туре	16ay	3 (00	ping)															
SW.WWI.1140	Construction of Seawall Modification Type I Bay 4 (1st Pour)	12	23	0 017/08(6 30-Jul-21 A		10-Nov-21	10-Nov-21		100% n	of Sea	wal Modi	fication 1	lype I B	Say 4 (1s	st Pou	ir)																			
SW.WWI.1141	Construction of Seawall Modification Type I Bay 4 (2nd Pour)	12	19	0 017/08(6 31-Aug-21 A		19-Nov-21	19-Nov-21		100% n	strucion		all Modif												-								-			
SW.WWI.1142	Construction of Seawall Modification Type I Bay 4 (Coping)	6	0	6 017/08(6 06-Dec-21	11-Dec-21	04-Dec-21	11-Dec-21	-1	0%		1 III:	Const	_				ion Typ	e I Ea	y 4 ((Coping	9)														
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% id			lodificatio										1		1											
SW.WWI.1151	Construction of Seawall Modification Type I Bay 5 (2nd Pour)	12	17	0 017/08(6 20-Sep-21 A	12-Oct-21	19-Nov-21	19-Nov-21		100%	Const		Seawall																							
SW.WWI.1152	Construction of Seawall Modification Type I Bay 5 (Coping)	6	0	6 017/08(6 13-Dec-21	18-Dec-21	11-Dec-21	18-Dec-21	-1	0%			Cor	nstructio	on of Se	eåwal	Modific	ation 1	īуре	Baý 5	(Copi	ning)			1											
SW.WWI.1160	Construction of Seawall Modification Type I Bay 6 (1st Pour)	12	17	0 017/08(6 09-Sep-21 A	30-Sep-21	10-Nov-21	10-Nov-21		100%	onstruct	on of Se																								
SW.WWI.1161	Construction of Seawall Modification Type I Bay 6 (2nd Pour)	12	24	0 017/08(6 04-Oct-21 A	02-Nov-21	19-Nov-21	19-Nov-21		100%		Construc	tion of S	eav <mark>r</mark> all I	Modifica	tion T	ype B	ay 6 (2	nc Pc	ur)			i		i											
SW.WWI.1162	Construction of Seawall Modification Type I Bay 6 (Coping)	6	107	7 017/08(6 02-Jul-21 A	29-Dec-21	18-Dec-21	29-Dec-21	-1	0%				Cor stru	ction of	f Sea	vall Moo	dificatio	on Tyc	e I Ba	y 6 (C	Coping)		-											
SW.WWI.1170	Construction of Seawall Modification Type I Bay 7 (1st Pour)	12	12	0 017/08(6 05-Oct-21 A	20-Oct-21	10-Nov-21	10-Nov-21		100%	d on	struction	of Seaw	all <mark>I</mark> /od	fication	Туре	I Bay 7	(1st P	our)																	
SW.WWI.1171	Construction of Seawall Modification Type I Bay 7 (2nd Pour)	12	2	4 017/08(6 05-Nov-21 A	11-Nov-21	19-Nov-21	24-Nov-21	11	66.67%	4	Const	ruction o	f Seaw	all Modif	ficatio	n Type	I Bay 7	′ (2nd	Pour																
SW.WWI.1172	Construction of Seawall Modification Type I Bay 7 (Coping)	6	0	6 017/08(6 30-Dec-21	06-Jan-22	29-Dec-21	06-Jan-22	-1	0%	$-\mathbf{H}$		 L	Oons	; struction	of Se	awall N	Nodifica	ation 1	; ype I	Bay 7	(Copi	ing)		ł											
SW.WWI.1180	Construction of Seawall Modification Type I Bay 8 (1st Pour)	12	0	12 017/08(6 08-Nov-21	20-Nov-21	10-Nov-21	24-Nov-21	3	0%	H	Cor	struction		1										:							-		1		
SW.WWI.1181	Construction of Seawall Modification Type I Bay 8 (2nd Pour)	12	0	12 017/08(6 22-Nov-21	04-Dec-21	24-Nov-21	08-Dec-21	3	0%					f Seawa							(r)			-											
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%			4-44		nstructio				11	<u>``</u>		17	; ppind)		;											
SW.WWI.1192	Construction of Seawall Modification Type I Bay 9 (tst Pour)	12	0	12 017/08(6 22-Nov-21	04-Dec-21	24-Nov-21	08-Dec-21	-1	0%			Constin		4	- - <mark>-</mark>						Ada a la se	(Br		·····											
		12	0	12 017/08(6 06-Dec-21		24-Nov-21 08-Dec-21	22-Dec-21	3	0%				_	on of Se																1					
SW.WWI.1191	Construction of Seawall Modification Type I Bay 9 (2nd Pour)	12	0		18-Dec-21							Ħ¤							-		1. L	Cont	, 1	-											
SW.WWI.1192	Construction of Seawall Modification Type I Bay 9 (Coping)	0		6 017/08(6 14-Jan-22	20-Jan-22		20-Jan-22	-1	0%			LL ∠ੈ		Construc									/	-						1					
SW.WWI.1200	Construction of Seawall Modification Type I Bay 10 (1st Pour)	12	0	12 017/08(6 06-Dec-21	18-Dec-21	20-Dec-21	06-Jan-22	13	0%			Cor		on of Se							1 I		1	;											
SW.WWI.1201	Construction of Seawall Modification Type I Bay 10 (2nd Pour)	12	0	12 017/08(6 20-Dec-21	05-Jan-22		20-Jan-22	13	0%			r 💻		truction												ļ					ļ				
SW.WWI.1202	Construction of Seawall Modification Type I Bay 10 (Coping)	6	0	6 017/08(6 21-Jan-22	27-Jan-22		27-Jan-22	-1	0%				- H7-	Constr				ocific	itio'n	Type I	Bay	0 (Cop	ing)	-											
SW.WWI.1212	UU & TCSS Duct Laying	28	0	28 017/08(6 20-Dec-21	24-Jan-22	22-Dec-21	27-Jan-22	3	0%			┝╋═╤	۲ł	UU & T(- i		ying							-						1					i
Seawall Modification Type 2		160	308	0 017/08(6 23-Oct-20 A			23-Sep-21	-36		-++	0BNov	21, Sea	wa Mo	dificatio	oḥ Typ	e 2							1	i							1	-			
SW.WWII.1010	Starter Bar Construction on Seawall Coping for Seawall Modification Type 2	60	60	0 017/08(6 23-Oct-20 A	05-Jan-21	23-Sep-21	23-Sep-21		100%							į							1	ļ					1						
SW.WWII.1020	Installation of Steel Bracket at Seawall Coping for Construction of Seawall M	45	45	0 017/08(6 20-Nov-20 A	14-Jan-21	23-Sep-21	23-Sep-21		100% di	fication	Type 2																								
SW.WWII.1030	Construction of Seawall Modification Type II Bay 1	10	36	0 017/08(6 22-Dec-20 A	04-Feb-21	23-Sep-21	23-Sep-21		100%				T																						
SW.WWII.1040	Construction of Seawall Modification Type II Bay 2	10	36	0 017/08(6 22-Dec-20 A	04-Feb-21	23-Sep-21	23-Sep-21		100%																										
SW.WWII.1050	Construction of Seawall Modification Type II Bay 3	10	54	0 017/08(6 22-Dec-20 A		23-Sep-21	23-Sep-21		100%					:									1	-		1					1				
SW.WWII.1060	Construction of Seawall Modification Type II Bay 4	10	41	0 017/08(6 22-Dec-20 A		23-Sep-21	23-Sep-21		100%														1	-							-				
SW.WWII.1070	Construction of Seawall Modification Type II Bay 5	10	29	0 017/08(6 22-Dec-20 A		· ·	23-Sep-21	+	100%					-																					
SW.WWII.1080	Construction of Seawall Modification Type II Bay 6	10	10	0 017/08(6 24-Feb-21 A		23-Sep-21 23-Sep-21	23-Sep-21 23-Sep-21		100%			- 			+						<u> </u> +	·													
		10	10																							1					1				
SW.WWII.1090	Construction of Seawall Modification Type II Bay 7		-	0 017/08(6 09-Mar-21 A		23-Sep-21	23-Sep-21		100%														-												
SW.WWII.1100	Construction of Seawall Modification Type II Bay 8	10	10	0 017/08(6 01-Apr-21A		23-Sep-21	23-Sep-21		100%					-								Ì		i		1					1				
SW.WWII.1110	Construction of Seawall Modification Type II Bay 9	10	10	0 017/08(6 17-Apr-21A			23-Sep-21		100%	Я														-											1
SW.WWII.1120	Construction of Remaining Seawall Modification Type II at U-trough (Bay 10-	10	158	0 017/08(6 29-Apr-21A			23-Sep-21	-36	100%		Uphstri	iction of	Remai	ning Sea																					
v	de Noise Semi Enclosures	779	667		24-Mar-22			450						1		-7 24	-Mar-2	2, Ca	struc	ion of	the A	t-grade	e Noise S	emi Eņ	closures	5					1				1
-	Drainage (SMH003 to SMH008)		294	0 017/08(6 09-Aug-19 A	05-Aua-2(127-Sep-21	115-Dec-21					i I - 1												:						1	1	1			Ì
PORIII.AG.1010	Excavation from +5.5mPD to +3.5mPD for SMH003 to SMH007 (inlcude Der		0.4	`		· · · · · · · · · · · · · · · · · · ·	_		4000/					:																		1			
		30	81	0 017/08(6 09-Aug-19 A	14-Nov-19	27-Sep-21	27-Sep-21	0	100%	-				2 2 2 2 2										1		i			-						
PORIII.AG.1015	Road Diversion at XYZ Junction	10	10	0 017/08(6 09-Aug-19 A 0 017/08(6 14-Oct-19 A	14-Nov-19 24-Oct-19	27-Sep-21 27-Sep-21	27-Sep-21 27-Sep-21	0	100%	+													1	i		1	1								
PORIII.AG.1015 PORIII.AG.1020	Excavation of Drainage Trench (maximum up to +2.0mPD) for SMH003 to SI	10 7	10 48	0 017/08(6 09-Aug-19 A 0 017/08(6 14-Oct-19 A 0 017/08(6 12-Sep-19 A	24-Oct-19 10-Nov-19	27-Sep-21 27-Sep-21 27-Sep-21	27-Sep-21 27-Sep-21 27-Sep-21	0	100% 100%																					1					
PORIII.AG.1015 PORIII.AG.1020 PORIII.AG.1030	Excavation of Drainage Trench (maximum up to +2.0mPD) for SMH003 to SI Manhole Construction for SMH003 to SMH006 (14D/manhole, 2 teams)	10	10	0 017/08(6 09-Aug-19 A 0 017/08(6 14-Oct-19 A	24-Oct-19 10-Nov-19	27-Sep-21 27-Sep-21 27-Sep-21	27-Sep-21 27-Sep-21	0	100% 100% 100%																					: : : : : : : : : : : : : : : : : : :		-			
PORIII.AG.1015 PORIII.AG.1020	Excavation of Drainage Trench (maximum up to +2.0mPD) for SMH003 to SI	10 7	10 48	0 017/08(6 09-Aug-19 A 0 017/08(6 14-Oct-19 A 0 017/08(6 12-Sep-19 A	 14-Nov-19 24-Oct-19 10-Nov-19 29-Oct-19 	27-Sep-21 27-Sep-21 27-Sep-21	27-Sep-21 27-Sep-21 27-Sep-21	0	100% 100%																					- - - - - - - - - - - - - - - - - - -					
PORIILAG.1015 PORIILAG.1020 PORIILAG.1030 PORIILAG.1035	Excavation of Drainage Trench (maximum up to +2.0mPD) for SMH003 to SI Manhole Construction for SMH003 to SMH006 (14D/manhole, 2 teams)	10 7 28	10 48 36	0 017/08(6 09-Aug-19 A 0 017/08(6 14-Oct-19 A 0 017/08(6 12-Sep-19 A 0 017/08(6 16-Sep-19 A	 14-Nov-19 24-Oct-19 10-Nov-19 29-Oct-19 15-Nov-19 	27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21	27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21	0 0 0	100% 100% 100%																										
PORIII.AG.1015 PORIII.AG.1020 PORIII.AG.1030	Excavation of Drainage Trench (maximum up to +2.0mPD) for SMH003 to Si Manhole Construction for SMH003 to SMH006 (14D/manhole, 2 teams) Laying of Drainage Pipe SMH003 to SMH006	10 7 28 14	10 48 36 21	0 D17/08(6 09-Aug-19 A 0 D17/08(6 14-Oct-19 A 0 D17/08(6 12-Sep-19 A 0 D17/08(6 16-Sep-19 A 0 D17/08(6 23-Oct-19 A	 14-Nov-19 24-Oct-19 10-Nov-19 29-Oct-19 15-Nov-19 15-Nov-19 	27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21	27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21	0 0 0 0	100% 100% 100% 100%																										
PORIILAG.1015 PORIILAG.1020 PORIILAG.1030 PORIILAG.1035 PORIILAG.1040	Excavation of Drainage Trench (maximum up to +2.0mPD) for SMH003 to Si Manhole Construction for SMH003 to SMH006 (14D/manhole, 2 teams) Laying of Drainage Pipe SMH003 to SMH006 Backfilling of Drainage Trench for SMH003 to SMH006	10 7 28 14 14	10 48 36 21 21	0 017/08(6 09-Aug-19 A 0 017/08(6 14-Oct-19 A 0 017/08(6 12-Sep-19 A 0 017/08(6 16-Sep-19 A 0 017/08(6 23-Oct-19 A 0 017/08(6 23-Oct-19 A	 14-Nov-19 24-Oct-19 10-Nov-19 29-Oct-19 15-Nov-19 15-Nov-19 21-Nov-19 	27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21	27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21	0 0 0 0 0	100% 100% 100% 100% 100%																										
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<td>App</td>	 14-Nov-19 24-Oct-19 10-Nov-19 15-Nov-19 15-Nov-19 15-Nov-19 15-Nov-19 21-Nov-19 28-Nov-19 28-Nov-19 01-Apr-20 03-Jul-20, 07-Jul-20, 25-Jul-20, 14-Feb-20 21-Nar-20 14-Feb-20 21-Nar-20 14-Feb-20 21-Nar-20 14-Feb-20 21-Nar-20 14-Apr-20 14-Feb-20 21-Mar-20 14-Apr-20 14-Apr-20 14-Apr-20 14-Apr-20 14-Apr-20 14-Apr-20 26-Mar-20 31-Mar-20 14-Apr-21 16-May-21 16-May-21 17-Jun-20 29-Jan-21 11-May-21 30-Nov-21 18-Nov-21 25-Sep-21 	27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 15-Dec-21 15-Dec-21 15-Dec-21 15-Dec-21 15-Dec-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 06-Nov-21 06-Nov-21 06-Nov-21 30-Sep-23 27-Sep-23 27-Sep-21	27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 15-Dec-21 15-Dec-21 15-Dec-21 15-Dec-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 30-Sep-23 06-Nov-21 06-Nov-21 06-Nov-21 15-Dec-21 15-Dec-21		100% 100% 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Worth</td> <td>s at War 30-Nov-2 90y-21 E Bound</td> <td>n C Ro 1, Con 3as Si</td> <td>\$truction</td> <td></td> <td></td> <td></td> <td></td> <td>08</td> <td>-Ma -Ma</td> <td>ar-21 ay-21</td> <td>1</td> <td>Month</td> <td>iy Proę</td> <td>gramr</td> <td>me Up me Up</td> <td>lpdate pdate</td> <td>e (Mar e (May</td> <td>/2021</td> <td>.1)</td> <td></td> <td>TL CkT</td> <td>cked</td> <td>StL StL</td> <td>App</td>	 14-Nov-19 24-Oct-19 10-Nov-19 29-Oct-19 15-Nov-19 15-Nov-19 21-Nov-19 21-Nov-19 28-Nov-19 28-Nov-19 28-Nov-19 28-Nov-19 28-Nov-19 28-Nov-19 28-Nov-19 28-Nov-19 29-Jul-20, 07-Jul-20, 25-Jul-20, 20-Jul-20, 09-Nov-19 14-Apr-20 14-Feb-20 21-Feb-20 21-Feb-20 21-Mar-20 26-Mar-20 31-Mar-20 14-Apr-20 14-Apr-20 14-Apr-20 26-Mar-20 31-Mar-20 14-Apr-20 14-Apr-20 28-Jan-21 18-Nov-21 18-Nov-21 18-Nov-21 25-Sep-21 	27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 15-Dec-21 15-Dec-21 15-Dec-21 15-Dec-21 15-Dec-21 15-Dec-21 15-Dec-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 06-Nov-21 06-Nov-21 06-Nov-21 06-Nov-21 06-Nov-21 27-Sep	27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 27-Sep-21 15-Dec-21 15-Dec-21 15-Dec-21 15-Dec-21 27-Sep-23 30-Sep-23 30-Sep-23 30-Sep-23 30-Sep-23 30-Sep-24 30-Sep-25 30-Sep-24	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100% 100% 100% 100% 100% 100% 100% 100%	g Cross	Road UL T 18-7 A. 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		Duration		Duration					Float	Complete Oct	No	v C	Dec J	an Feb	Mar	Apr M	λay Jι			Aug Se
	Construction of Blinding for Bay NB-N1 to N11	10	10	0 017/0	08(6 14-Nov-19 A	25-Nov-19	27-Sep-21	27-Sep-21	0	100%										
PORIII.AG.1060-01	Construction of Pad Footing Bay NB-N7, 9, 11 Base Slab	15	19		08(6 26-Nov-19 A		· ·	27-Sep-21	0	100%										
PORIII.AG.1060-04	Construction of Pad Footing Bay NB-N5, 8, 10 Base Slab	15	16		08(6 06-Dec-19 A		· ·	27-Sep-21	0	100%										
PORIII.AG.1060-10	Construction of Pad Footing Bay NB-N3, 6 Base Slab	15	10		08(6 27-Dec-19 A		· ·	27-Sep-21	0	100%										
PORIII.AG.1060-11	Construction of Pad Footing Bay NB-N2, 4 Base Slab	15	13		08(6 02-Jan-20 A			27-Sep-21	0	100%										
PORIII.AG.1290	Construction of Pad Footing Bay NB-N1 Base Slab	10	7		08(6 02-Mar-20 A		06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1410 PORIII.AG.1420	Construction of Pad Footing Bay NB-N12 Base Slab	10	11		18(6 06-Jun-20 A 18(6 19-Jun-20 A		15-Dec-21 15-Dec-21	15-Dec-21 15-Dec-21	0	100%										
PORIII.AG.1420	Construction of Pad Footing Bay NB-N13 Base Slab Construction of Pad Footing Bay NB-N14 Base Slab	10	0 7		19-Jun-20 A		15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1430	Construction of Pad Footing Bay NB-N15 Base Slab	10	13		18(6 20-Jun-20 A		15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1440	Construction of Pad Footing Bay NB-N16 Base Slab	10	29		8(6 09-Jul-20 A	11-Aug-20	15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1460	Construction of Pad Footing Bay NB-N17 Base Slab	10	49		18(6 05-Jul-21 A	31-Aug-21	27-Sep-21	27-Sep-21	0		of Pad F		Bay NB-N	17 Base SI	lah l					
PORIII.AG.1470	Construction of Pad Footing Bay NB-N18 Base Slab	12	11)8(6 13-Sep-21 A		11-Dec-21	11-Dec-21	0	100% onst	truction o	Pade	Footina B	av NB-N18	Base Slab					
South Bound		535	516	10	01-Feb-20 A	-		03-Dec-21	13			18-N	ov-21. So	uh Bound						
	Excavation for Construction of Bay NB-N1, NB-S1-S6	10	9	0 017/0	8(6 10-Feb-20 A		-	06-Nov-21	0	100%										
PORIII.AG.1060-111	Home Quarantine due to Wuhan Pneumonia (NCE083)	14	14	0 017/0	8(7 01-Feb-20 A	14-Feb-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1060-112	Plate Loading Test for NB-S1-S6	7	5	0 017/0	8(6 20-Feb-20 A	25-Feb-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1060-113	Construction of Blinding for Bay NB-S1-S6	10	4	0 017/0	08(6 26-Feb-20 A	29-Feb-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1060-12	Construction of Pad Footing Bay NB-S1, S3 Base Slab	15	8	0 017/0	8(6 29-Feb-20 A	09-Mar-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1300	Construction of Pad Footing Bay NB-S2 Base Slab	10	6	0 017/0)8(6 10-Mar-20 A	16-Mar-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1310	Construction of Pad Footing Bay NB-S4 Base Slab	10	6	0 017/0	08(6 10-Mar-20 A	16-Mar-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1320	Construction of Pad Footing Bay NB-S6 Base Slab	10	5	0 017/0	08(6 11-Mar-20 A	16-Mar-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1330	Excavation for Construction of Bay NB-S7-S11	5	10		08(6 17-Mar-20 A		06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1340	Construction of Blinding for Bay NB-S7-S10	5	1		08(6 28-Mar-20 A		06-Nov-21	06-Nov-21	0	100%										-
PORIII.AG.1350	Construction of Pad Footing Bay NB-S5 Base Slab	10	19		08(6 19-Mar-20 A		06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1360	Construction of Pad Footing Bay NB-S7 Base Slab	10	6		08(6 03-Apr-20 A		06-Nov-21	06-Nov-21	0	100%		 		.					.	
PORIII.AG.1370	Construction of Pad Footing Bay NB-S8 Base Slab	10	10		08(6 16-Apr-20 A		06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1380	Construction of Pad Footing Bay NB-S9 Base Slab	10	10		08(6 28-Apr-20 A		06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1390	Construction of Pad Footing Bay NB-S10 Base Slab	10	10		08(6 19-May-20 A		06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1400	Construction of Pad Footing Bay NB-S11 Base Slab	10	10		08(6 30-May-20 A		06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1480	Construction of Pad Footing Bay NB-S12 Base Slab	10	8		08(6 19-Jun-20 A		06-Nov-21	06-Nov-21	0	100%		.	+							
PORIII.AG.1490	Construction of Pad Footing Bay NB-S13 Base Slab	10	6		08(6 30-Jun-20 A		06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1500 PORIII.AG.1510	Construction of Pad Footing Bay NB-S14 Base Slab	10	7		08(6 08-Jul-20 A	15-Jul-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1510 PORIII.AG.1520	Construction of Pad Footing Bay NB-S15 Base Slab	10	9)8(6 14-Sep-20 A		06-Nov-21 06-Nov-21	06-Nov-21 06-Nov-21	0	100%										-
 PORIII.AG.1520 PORIII.AG.1530 	Construction of Pad Footing Bay NB-S16 Base Slab Construction of Pad Footing Bay NB-S17 Base Slab	10	98		18(6 02-Sep-20 A 18(6 02-Jul-21 A	11-Sep-20 27-Oct-21	27-Sep-21	27-Sep-21	0	100%					/NB-ST7 Bas	co Slob				
PORIII.AG. 1530	Construction of Pad Footing Bay NB-S17 Base Slab	10	90		18(6 08-Nov-21	18-Nov-21		03-Dec-21	13 0	0%					ng Bay NB-S		.		·····	····-
Wall Stem	Construction of Pad Pooling Bay ND-316 Base Slab	512	485		8(6 17-Mar-20 A		20-Oct-21	15-Dec-21	13				0-Nov-21,			TO Dase Sa	1			
South Bound		505	205		8(6 19-Mar-20 A			15-Dec-21	13				0-Nov-21,							-
PORIII.AG.1550	Construction of Pad Footing Bay NB-S1 Wall Stem	10	23		8(6 19-Mar-20 A			06-Nov-21	0	100%										
PORIII.AG.1560	Construction of Pad Footing Bay NB-S2 Wall Stem	10	36	0 017/0	8(6 24-Mar-20 A	11-May-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1570	Construction of Pad Footing Bay NB-S3 Wall Stem	10	29	0 017/0	8(6 20-Mar-20 A	27-Apr-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1580	Construction of Pad Footing Bay NB-S4 Wall Stem	10	52	0 017/0)8(6 24-Mar-20 A	29-May-2(06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1590	Construction of Pad Footing Bay NB-S5 Wall Stem	10	14	0 017/0	08(6 12-Jun-20 A	29-Jun-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1600	Construction of Pad Footing Bay NB-S6 Wall Stem	10	23		08(6 15-May-20 A		06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1610	Construction of Pad Footing Bay NB-S7 Wall Stem	10	47	0 017/0	08(6 20-May-20 A	15-Jul-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1620	Construction of Pad Footing Bay NB-S8 Wall Stem	10	27	0 017/0	08(6 19-May-20 A	18-Jun-20	06-Nov-21	06-Nov-21	0	100%									-	
PORIII.AG.1630	Construction of Pad Footing Bay NB-S9 Wal Stem	10	54		08(6 20-May-20 A		06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1640	Construction of Pad Footing Bay NB-S10 Wal Stem	10	24		08(6 01-Jun-20 A		15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1650	Construction of Pad Footing Bay NB-S11 Wall Stem	10	27)8(6 30-Jun-20 A		06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1660	Construction of Pad Footing Bay NB-S12 Wal Stem	10	21		08(6 18-Jul-20 A	11-Aug-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1670 PORIII.AG.1680	Construction of Pad Footing Bay NB-S13 Wal Stem	10	9		08(6 14-Jul-20 A	23-Jul-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1680 PORIII.AG.1690	Construction of Pad Footing Bay NB-S14 Wal Stem	10	7		08(6 24-Jul-20 A	31-Jul-20	06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1690 PORIII.AG.1700	Construction of Pad Footing Bay NB-S15 Wal Stem	10	12		08(6 29-Sep-20 A		06-Nov-21	06-Nov-21	0	100%										
PORIII.AG.1700 PORIII.AG.1710	Construction of Pad Footing Bay NB-S16 Wal Stem Construction of Pad Footing Bay NB-S17 Wal Stem	10	12		18(6 15-Sep-20 A 18(6 08-Nov-21	28-Sep-2(18-Nov-21	06-Nov-21 23-Nov-21	06-Nov-21 03-Dec-21	13 0	0%		-	truction o	f Bart Ennth	ng Bay NB-\$	17 Wal St.				
PORII.AG.1710	Construction of Pad Footing Bay NB-S17 Wal Stern Construction of Pad Footing Bay NB-S18 Wal Stern	10	0		18(6 08-1NOV-21 18(6 19-Nov-21	30-Nov-21	23-NOV-21 04-Dec-21	15-Dec-21	13 0	0%					ooting Bay NB-5		Stem			
PORIII.AG.1720	Backfilling to Interim Formation Level (7 Layers, 5D/layer) for Bay 1 to 1		35)8(6 17-Jun-20 A		15-Dec-21	15-Dec-21	0	100%		Ŧ			- Jung Jay N					
PORIII.AG.1920	Backfilling to Interim Formation Level (7 Layers, 5D/layer) for Bay 12 to		35		8(6 15-Oct-20 A	25-Nov-20	15-Dec-21	15-Dec-21	0	100%		1								
North Bound		510 512	485		08(6 17-Mar-20 A	05-Nov-21	20-Oct-21	15-Dec-21			- Of	Nov-2	1 A, North	Bound						-
PORII.AG.1730	Construction of Pad Footing Bay NB-N1 Wall Stem	10	25		08(6 17-Mar-20 A		15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1740	Construction of Pad Footing Bay NB-N2 Wall Stem	10	30		8(6 31-Mar-20 A		15-Dec-21	15-Dec-21	0	100%		tl 🗄	1	1				T	1	
PORIII.AG.1750	Construction of Pad Footing Bay NB-N3 Wall Stem	10	32	0 017/0	08(6 17-Mar-20 A	27-Apr-20	15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1760	Construction of Pad Footing Bay NB-N4 Wall Stem	10	46		08(6 31-Mar-20 A		15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1770	Construction of Pad Footing Bay NB-N5 Wall Stem	10	77	0 017/0	08(6 31-Mar-20 A	07-Jul-20	15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1780	Construction of Pad Footing Bay NB-N6 Wall Stem	10	56	0 017/0	08(6 31-Mar-20 A	10-Jun-20	15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1790	Construction of Pad Footing Bay NB-N7 Wall Stem	10	84	0 017/0	08(6 31-Mar-20 A	15-Jul-20	15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1800	Construction of Pad Footing Bay NB-N8 Wall Stem	10	132		08(6 02-Apr-20 A		15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1810	Construction of Pad Footing Bay NB-N9 Wall Stem	10	89		08(6 02-Apr-20 A		15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1820	Construction of Pad Footing Bay NB-N10 Wal Stem	10	118		08(6 02-Apr-20 A		15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1830	Construction of Pad Footing Bay NB-N11 Wall Stem	10	96		08(6 02-Apr-20 A	31-Jul-20	15-Dec-21	15-Dec-21	0	100%		H							.	
PORIII.AG.1840	Construction of Pad Footing Bay NB-N12 Wal Stem	10	36		08(6 16-Jul-20 A	26-Aug-2(15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1850	Construction of Pad Footing Bay NB-N13 Wal Stem	10	23	0 017/0	08(6 16-Jul-20 A	11-Aug-20	15-Dec-21	15-Dec-21	0	100%										
				1						1								Date		
Actual Level of Effo	rt Milestone 					Contra	act No.: 1	NE/2017/	08		1	1								Manada
Actual Work	summary	土木工程	拓展蒙		ſ	rose Rov	Link T	seung Ky	van O		1	1						-Mar-2		Monthly
		Civil Engine				•		-		1	1	-			K	100	08-	May-2	<u>1</u>	Monthy
Domaining Work		UNIL Endiné	ering ar	u	ŀ	koad D9	and Ass	ociated V	orks				-			-	-108	Jul_21	I	Monthly
Remaining Work Critical Remaining V		Developmen															-00-	Jui-Z I	I_\	wioriu iii,

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	Nov	Dec	Jan	Feb	Mar		202 Apr	23 May	,	Jun	Jul	Aug
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nı		date (N	1ar 202	21)		Т				StL		
۱r	ne Upo	date (N	lay 202	21)		С	kТ			StL		
n	me Up	date (J	ul 202	1)			KT			StL		
g	ramme	е				С	KT			Stl		

	Activity Name	Original Actu Duration Duration		ing Calendar Sta	art	Finish	Late Start	Late Finish	Total TRA Float	Complete						1		022		
PORIII.AG.1860	Construction of Pad Footing Bay NB-N14 Wal Stem		50	0 017/08(6 16-	. lul-20 A	11-Sep-20	15-Dec-21	15-Dec-21	0	100%	Oct No	v Dec	Jan	Feb	Mar Apr	May	Jun	Jul	Aug	5
PORIII.AG. 1860	Construction of Pad Footing Bay NB-N15 Wal Stem		36	0 017/08(6 16-		26-Aug-20	15-Dec-21 15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1880	Construction of Pad Footing Bay NB-N16 Wal Stem		9	0 017/08(6 02-		11-Sep-20	15-Dec-21	15-Dec-21	0	100%										
PORIII.AG.1890	Construction of Pad Footing Bay NB-N17 Wal Stem		14	0 017/08(6 11-		27-Oct-21	20-Oct-21	20-Oct-21	0	100%		truction of P	d Feotin	α Bay NB-	-N 7 Wall Stem			(• • • • • • • • • • • • • • • • • • • •	·
PORIII.AG.1900	Construction of Pad Footing Bay NB-N18 Wal Stem		7	0 017/08(6 28-		05-Nov-21	11-Dec-21	11-Dec-21	0	100%					VB N18 Wall Ste			1	-	
	outh Drainage (SMH203 to SMH216)		-		-Nov-21	24-Mar-22		24-Mar-22	-1	100 //	T			ang bay n		22, Constru	uction of	Remaini	ina South	n Dra
PORIII.AG.1170	Construction of South Drainage SMH203 to SMH206		0	40 017/08(6 08-		23-Dec-21	23-Dec-21	14-Feb-22	39 0	0%			onsructi	; ion of Sou	th Drainage SM					1
PORIII.AG.1171	Construction of South Drainage SMH207 to SMH216	65	0	65 017/08(6 08-	-Nov-21	25-Jan-22	08-Dec-21	01-Mar-22	27	0%				Constructi	ior of South Dra				3	
PORIII.AG.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%	\mathbf{H}		-			ction of Roa	adwork\$			
Construction of Semi-Noise E	Enclosure and Directional Sign	355 2	65	66 017/08(6 14-	-Dec-20 A	26-Feb-22	06-Nov-21	14-Apr-22	39						26-Feb-22, Con	struction of	f Semi-N	loise Enc	dosure ar	nd Di
PORIII.AG.1190	Construction of Semi-Noise Enclosure CH13635.3 to CH13878 Main Frame	75 1	99	0 017/08(6 08-	-Mar-21 A	07-Dec-21	10-Jan-22	10-Jan-22	27 0	100%		I ≪Cons	ruction of	f Semi-Noi	ise Endosure C	H13635.3	tc CH13	878 Mair	n Frame	
PORIII.AG.1210	Construction of Semi-Noise Enclosure CH13635.3 to CH13878 Sub-frame a	60	69	15 017/08(6 16-	-Aug-21 A	23-Dec-21	10-Jan-22	27-Jan-22	27 0	75%			onstructi	ion of Serr	ni-Noise Enclosu	ure CHI 36	35.3 o 🤇	\$H13 <mark>878</mark>	Sub-fram	me a
PORIII.AG.1235	Diversion of Haul Road	14	21	0 017/08(6 14-	-Dec-20 A	09-Jan-21	06-Nov-21	06-Nov-21	0	100%										<u>.</u>
PORIII.AG.1240	Excavation and Construction of Directional Sign Footing DS3	14	14	0 017/08(6 22-	-May-21 A	07-Jun-21	15-Feb-22	15-Feb-22	0	100%	ectional Sig	Footing DS			-					
PORIII.AG.1250	Backfilling to Formation Level		20	0 017/08(6 08-	-Jun-21 A	02-Jul-21	15-Feb-22	15-Feb-22	0	100%	el				-				-	1
PORIII.AG.1260	Installation of Directional Sign and Steel Frame	10 10	06	6 017/08(6 03-	-Jul-21 A	03-Jan-22	15-Feb-22	21-Feb-22	39 0	40%			Installa	tion of Dir	rectional Sign ar	nd Steel Fir	ame			
PORIII.AG.2010	Excavation and Construction of Directional Sign Footing DS7	14	0	14 017/08(6 04-	-Jan-22	19-Jan-22	22-Feb-22	09-Mar-22	39 0	0%			-	xcavation	and Constructio	vn of Directi	ional Sig	in Fo <mark>otin</mark>	ig DS7	
PORIII.AG.2020	Backfilling to Formation Level		0	20 017/08(6 20-	Jan-22	15-Feb-22	10-Mar-22	01-Apr-22	39 0	0%			. H	Bac	ckfilling to Forma	ation Level				
PORIII.AG.2021	Civil Provision for At-Grade Road South		0	30 017/08(6 06-		12-Jan-22	20-Dec-21	27-Jan-22	13	0%			⊒ •¢ivi	Provision	for At-Grade Ro	ad South				
PORIII.AG.2030	Installation of Directional Sign and Steel Frame		0	10 017/08(6 16-			02-Apr-22	14-Apr-22	39 0	0%				⊷ ⊒ 1	Installation of Di	recional \$			-	
Wan O Road					-May-19 A	30-May-22		30-Sep-23	399								30-May	1-22, War	n ORoad	1
Footpath Excavation Permit			63					27-Sep-21												
Footpath North Bound			63	0 017/08(6 20-		<u>~</u>	27-Aug-21	<u>~</u>			· · · · · · ·	 				- - - 	-+-+-		· <u></u>	
TTA Phase 1 (TTA DWC	· · · · · · · · · · · · · · · · · · ·		17 42	0 017/08(6 20- 0 017/08(6 10-		08-Jun-19 29-Jul-19	27-Aug-21 27-Aug-21	27-Aug-21 27-Aug-21								4 I II - I			1	
TTA Phase 3 (TTA DWC	· · · · · · · · · · · · · · · · · · ·		42 15	0 017/08(6 10-			27-Aug-21 27-Aug-21	27-Aug-21 27-Aug-21											-	1
Footpath South Bound			58	0 017/08(6 20-				<u> </u>							1 1 1				:	
TTA Phase 1 (TTA DWO	G: Q1004/WAOR/011)	16	14	0 017/08(6 20-	-May-19 A	04-Jun-19	27-Aug-21	27-Aug-21												
TTA Phase 2 (TTA DWO			16	0 017/08(6 05-		24-Jun-19	27-Aug-21	27-Aug-21											1	1
TTA Phase 3 (TTA DWC			12	0 017/08(6 25-		09-Jul-19,	27-Aug-21	27-Aug-21												1
TTA Phase 4 (TTA DWC	G: Q1004/WAOR/005)		16	0 017/08(6 10-			27-Aug-21	27-Aug-21							-					
Carriage Way Excavation Pe			18 69 1		Jul-19 A	<u> </u>	· · ·	27-Sep-21 30-Sep-23	399								10.00	22 Car	; miage Way	
TTA Stage 1			36		-Aug-19 A	22-Jan-21		30-Sep-23	399								JU-Inday	-22, Call	laye way	y E AU
TTA Stage 2					-Nov-19 A	30-May-22	27-Aug-21	30-Sep-23	399		┿╋┿					┿┥┥┥╼┊	30-May	-22, TTA	A Stage 2	
WO.CA.TTA2010	Implementation of TTA Stage 2	1	1	0 017/08(7 05-	-Jan-20 A	05-Jan-20	27-Aug-21		0	100%										1
Handreich Northern Portion		686 5	63 1	123 12-	-Dec-19 A	07-Apr-22	27-Aug-21	30-Sep-23	439		┿╋╪				• 07-	Apr 22, Nor	therr R	ortior		
Predrilling Works (4	nos, 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												
WO.CA.TTA2NP.	Inspection Pit for Predrilling Works at Northern Roundabout	4	4	0 017/08(6 11-	Mar-20 A	14-Mar-20	27-Aug-21	27-Aug-21	0	100%									-	1
	Predrilling at Northern Roundabout of Wan O Road (PD80) (Rig5)	15	8	0 017/08(6 02-	-Mar-20 A	10-Mar-20	30-Sep-23	30-Sep-23	5	100%										
	Predrilling at Northern Roundabout of Wan O Road (PD77) (Rig5)	15	6	0 017/08(6 11-	Mar-20 A	17-Mar-20	30-Sep-23	30-Sep-23	5	100%										
	Demobilization of Rig 5 off site	1	1	0 017/08(6 18-	-Mar-20 A	18-Mar-20	30-Sep-23	30-Sep-23	0	100%										
	Predrilling at Northern Roundabout of Wan O Road (PD76)(Rig3)		7	0 017/08(6 25-	-Mar-20 A	01-Apr-20	27-Aug-21	27-Aug-21	5	100%										
PBSH Works			97		-Dec-19 A	1	27-Sep-21	08-Oct-21							1			3 8 8		
	Liasion with CLP and Shifting of CLP cables at Wan O Road Northern Footp		38	0 017/08(7 12-		27-Apr-20	27-Sep-21	27-Sep-21	0	100%					-					
	Late Delivery of H-pile due to COVID-19 (NCE083)		81	0 017/08(7 29-		18-Apr-20	27-Sep-21	27-Sep-21	0	100%					-					
	Review Design on PC60-64 (PMI044)		56	0 017/08(6 04-			27-Sep-21	27-Sep-21	0	100%										1
	Discovery of Uncharted CLP Concrete Surround, Liasion with CLP and Revie		94	0 017/08(6 11-			27-Sep-21	27-Sep-21	0	100%										
	Construction of PBSH (23nos, Rig 2) (PC60, 61, 63-65)		99	0 017/08(6 15-		10-Dec-20		27-Sep-21	0	100%					-					
	Review Design on PC57 & PC58 (PMI048)		50	0 017/08(6 11-			27-Sep-21	27-Sep-21	0	100%					8					
	Construction of PBSH (7nos, Rig 2) (PC57-58)		76	0 017/08(6 04-			27-Sep-21	27-Sep-21	0	100%										
	Construction of PBSH (8nos, Rig 1) (PC66-69)		68	0 017/08(6 12-		28-Nov-20	08-Oct-21	08-Oct-21	0	100%					-					
	Construction of PBSH (8nos, Rig 1) (PC70-72)		90	0 017/08(6 29-		15-Aug-2(08-Oct-21	08-Oct-21	0	100%	· · · · · · ·	 						÷	- <u>+</u>	
	Construction of PBSH (14nos, Rig 1) (PC66-PC72)		18	0 017/08(6 24-		11-Dec-20	08-Oct-21	08-Oct-21	0	100%										
	Instruction of RC Structure Installation of Sheet pile at PC58		52 4	4 017/08(6 31- 0 017/08(6 31-			27-Sep-21	12-Oct-21	-25	100%		1-Nov-21, E	cavation	and Cons	struction of RC	structure				
			4			06-Jan-21	27-Sep-21	27-Sep-21	0	100%	5									
	Installation of Struts and Excavation to Pile Cap Level at PC58		-	0 017/08(6 09-			27-Sep-21	27-Sep-21	U	100%	~"									
	Construction of Pile Cap PC58		46	0 017/08(6 09-		07-May-21	27-Sep-21	27-Sep-21		100%						· <mark>⊧·</mark> Į· <mark>∦</mark> -į	-+-+-	-	· !	
	Backfill & removal of Waling, Strut & Sheet Pile for PC58		20 3	0 017/08(6 22-		16-Jun-21	27-Sep-21	27-Sep-21			n ox Sneet	ile for PC58			-					1
WO.CA.TTA2NP	Diversion of MOE Concrete Block Installation as Lateral Support on top of Box Culvert	-	3 25	0 017/08(6 16-		19-Jun-21	27-Sep-21	27-Sep-21	0	100%	o of Box Cu	dirt			1 1 1				-	
	Concrete Block Installation as Lateral Support on top of Box Culvert Construction of ELS (PC60-PC72)		25 24	0 017/08(6 09- 0 017/08(6 15-		10-Apr-21	08-Oct-21 08-Oct-21	08-Oct-21 08-Oct-21	0		f ELS (PDE	EI + 1							1	
	, ,		24 51			16-Aug-21						FI : : : : :	of Dilo		DC72 14D/					
	Construction of Pile Caps (PC60-PC72, 14D/cap, 3teams)			4 017/08(6 08-	•		08-Oct-21	12-Oct-21	-25 0	95.56%				aps (P080)-PC72, 14D/cap	Apr 22 D	- -	Mores	· 	
Remaining Works	Construction of Road and Drains (include backfilling to formation level)			119 017/08(6 12- 45 017/08(6 29-		07-Apr-22 22-Jan-22	13-Oct-21 20-Oct-21	14-Apr-22 10-Dec-21	6 -34 0	0%	+			Constructio	on of Road and	Apr 22, Ren Drains (incl	uning !	vvorus ckfilling */	oformatic	on lev
	Removal of Sheet Piles (PC60-PC72)		0	45 J17/08(6 29- 11 J17/08(6 12-		22-Jan-22 24-Nov-21	13-Oct-21	26-Oct-21	-34 0	0%		Removal		Piles (PC		, са тр (н Ю	uuu udg	, ann y tu	l	/,1 ICV
	Construction of Watermains, trigation, Power Cable Ducting, Civil Provision c		0			24-INOV-21 26-Feb-22		26-Oct-21 18-Mar-22	-25 0	0%		renoval		n	Construction of	Wate			i An Coblo	- Dure
	Construction of Watermains, rigation, Power Cable Ducing, CVII Provision C Construction of Semi-Noise Enclosure CH13878.6 to CH14021.2 Main Fram-		0	75 017/08(6 25- 45 017/08(6 30-		26-Feb-22 24-Jan-22		02-Mar-22	29 0	0%					on of Semi-Nois					
			0	· ·				02-Mar-22 18-Mar-22	29 0	0%					on of Semi-Nois struction of Sem					
	Construction of Semi-Noise Enclosure CH13878.6 to CH14021.2 Sub-Frame		-	45 017/08(6 16- 30 017/08(6 24-		12-Feb-22									Construction of Sem			David	and Port	diMor
	Construction of Road Kerb, Road Paving and Road Marking at Northern Can		0	30 017/08(6 24-		02-Mar-22		18-Jan-22	-34 0	0%				C -		nstruction of	o Road	Paving a	anu Road	u;iviari
	Construction of Road Paving, Traffic Sign, Street Lighting		0	30 D17/08(6 03-		07-Apr-22		25-Feb-22	-34 0	0%					Make Good of	suruction of	Koad F	aving, Ti	iame Sign	n, Str
	Make Good of Carriage Way and Road Marking		0	14 017/08(6 14-			29-Mar-22	14-Apr-22	37	0%					Make Good of	çanage W	ay and f	Koad Ma	arking	
Southern Portion and C					-Nov-19 A	-	27-Aug-21	30-Sep-23	399								30-May	-22, Sou	uthern Por	rtion
	6nos, 10D/hole + 5D TRA, 1-3 rigs) Set Back Existing Kerb along Sourthern Portion		25 17		-Nov-19 A		27-Aug-21	30-Sep-23	0	100%										-
WO.CA.TTA2SP.	DEL DAUX EXISUITO NELL'AIUTO SOUTITIETT POTION	30	17	0 017/08(6 09-	Jan-ZUA	31-Jan-20	JU-Sep-23	30-Sep-23	0	100%		1 1	- 1	1 1 1			1 1 1			

Actual Work
Remaining Work

Critical Remaining Work



summary

Contract No.: NE/2017/08 Cross Bay Link, Tseung Kwan O Road D9 and Associated Works Page 24 of 26



J	Nov	Dec	Jan	Feb	Mar		202 Apr	23 May	/	Jun	Jul	Aug
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		nme Update Activity Name	Original		Remaining Calendar Start	Finish		Late Finish	Total TRA	Activity %	d D9 and Associated Works
			Duration	Duration	Duration				Float	Complete O	xt Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan F
	Rig 5		81		0 017/08(6 20-Nov-19 A	_	27-Aug-21		-	4000/	
		Predrilling at Central Barrier of Wan O Road (PD112)	15		0 017/08(6 20-Nov-19 A		27-Aug-21	27-Aug-21	5	100%	
	_	Predrilling at Central Barrier of Wan O Road (PD113)	15		0 017/08(6 29-Nov-19 A		27-Aug-21	27-Aug-21	5	100%	
	_	Predrilling at Central Barrier of Wan O Road (PD114)	15		0 017/08(6 06-Dec-19 A		27-Aug-21	27-Aug-21	5	100%	
	_	Idling of Predrill Rig for PD114 by Sub-contractor	3		0 017/08(6 14-Dec-19 A		30-Sep-23	30-Sep-23	0	100%	
		Predrilling at Central Barrier of Wan O Road (PD120)	15		0 017/08(6 12-Feb-20 A		30-Sep-23	30-Sep-23	5	100%	
		Predrilling at Central Barrier of Wan O Road (PD111)	15		0 017/08(6 16-Jan-20 A		30-Sep-23	30-Sep-23	5	100%	
	_	Predrilling at Central Barrier of Wan O Road (PD82)	15		0 017/08(6 03-Feb-20 A	11-Feb-20	30-Sep-23	30-Sep-23	5	100%	
1.1	Rig 2		0		0	04.4 00	07.4 04	07.4 04	0		
		Deschiller and Control Demise of Mary O. Deved (DD445)	121		0 017/08(6 04-Dec-19 A	-	27-Aug-21	27-Aug-21	6	4000/	
	_	Predrilling at Central Barrier of Wan O Road (PD115)	15		0 017/08(6 04-Dec-19 A		27-Aug-21	27-Aug-21	5	100%	
	_	Predrilling at Central Barrier of Wan O Road (PD116)	15		0 017/08(6 24-Dec-19 A		27-Aug-21	27-Aug-21	5	100%	
		Idling of Predrill Rig for PD116 by Sub-contractor	4		0 017/08(6 27-Dec-19 A		27-Aug-21	27-Aug-21	0	100%	
		Predrilling at Central Barrier of Wan O Road (PD117)	15		0 017/08(6 20-Jan-20 A		27-Aug-21	27-Aug-21	5	100%	
		Predrilling at Central Barrier of Wan O Road (PD118)	15		0 017/08(6 03-Feb-20 A		27-Aug-21	27-Aug-21	5	100%	
		Predrilling at Central Barrier of Wan O Road (PD119)	15		0 017/08(6 08-Feb-20 A		27-Aug-21	27-Aug-21	5	100%	
		Predrilling at Central Barrier of Wan O Road (PD121)	15		0 017/08(6 17-Feb-20 A		27-Aug-21	27-Aug-21	5	100%	
		Predrilling at Central Barrier of Wan O Road (PD122)	15		0 017/08(6 24-Feb-20 A	03-Mar-20	27-Aug-21	27-Aug-21	5	100%	
	WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD83)	15	5 11	0 017/08(6 12-Mar-20 A	24-Mar-20	27-Aug-21	27-Aug-21	5	100%	
	WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD79)	15	5 7	0 017/08(6 17-Apr-20 A	24-Apr-20	27-Aug-21	27-Aug-21	5	100%	
	WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD78)	15	i 9	0 017/08(6 02-Apr-20 A	16-Apr-20	27-Aug-21	27-Aug-21	5	100%	
-	PBSH Works		331	300	0 29-Jan-20 A	28-Jan-21	27-Sep-21	11-Oct-21			
	WO.CA.TTA2SP	Late Delivery of H-pile due to COVID-19 (NCE083)	30	81	0 017/08(7 29-Jan-20 A	18-Apr-20	08-Oct-21	08-Oct-21	0	100%	
	WO.CA.TTA2SP	Construction of PBSH (25nos, Rig 1) (PC73 to PC81)	75	233	0 017/08(6 03-Mar-20 A	11-Dec-20	08-Oct-21	08-Oct-21	0	100%	
	WO.CA.TTA2SP.	Construction of PBSH (12nos, Rig 2) (PC59 & PC62)	45	83	0 017/08(6 01-Sep-20 A	09-Dec-20	27-Sep-21	27-Sep-21	0	100%	
	WO.CA.TTA2SP.	Pile Loading Test	21	9	0 017/08(6 19-Jan-21 A	28-Jan-21	11-Oct-21	11-Oct-21	0	100%	
-	Excavation and Cons	struction of RC Structure	246	245	38 017/08(6 09-Jan-21 A	21-Dec-21	27-Sep-21	14-Jan-22	18	_	21-Dec-21, Excavation and Construction of RC Structure
	WO.CA.TTA2SP.	Installation of Sheet Piles (PC59, PC62)	18	13	0 017/08(6 09-Jan-21 A	23-Jan-21	11-Oct-21	11-Oct-21	0	100%	
	WO.CA.TTA2SP.	Construction of ELS (PC59, PC62)	24	89	24 017/08(6 23-Jul-21 A	04-Dec-21	11-Oct-21	08-Nov-21	-23 0	0%	Construction of ELS (PC59, PC2)
	WO.CA.TTA2SP	Construction of Pile Caps (PC59, PC62)	14	34	0 017/08(6 19-Mar-21 A	04-May-21	09-Nov-21	09-Nov-21		100%	
	WO.CA.TTA2SP	Removal of Sheet Pile (PC59, PC62)	5	0	5 017/08(6 06-Dec-21	10-Dec-21	09-Nov-21	13-Nov-21	-23	0%	Removal of Sheet Pile (PC59, PC62)
		Construction of Wall Stem (PC59 - PC 62)	9	0	9 017/08(6 11-Dec-21	21-Dec-21	15-Nov-21	24-Nov-21	-23	0%	Construction of Wall Stem (PC59 - PC 62
		Construction of Pile Caps (PC74, PC77 and PC79)	18	64	0 017/08(6 04-Feb-21 A			23-Nov-21		100% 7	
		Construction of Pile Cap (PC75, PC78, PC80)	26		0 017/08(6 30-Mar-21 A			23-Nov-21		100%)	
		Construction of Pile Cap (PC73)	14		0 017/08(6 19-Aug-21 A		23-Nov-21	23-Nov-21		ŕ	of Pile Can (PC73)
		Construction of Pile Cap (PC57)	14		11 017/08(6 05-Jul-21 A		31-Dec-21	14-Jan-22	41	20%	Construction of Pile Cap (PC57)
			4							0%	Version of MOE
	WO.CA.TTA2SP			-	4 017/08(6 08-Nov-21		27-Sep-21	30-Sep-21	-34	-	
		Construction of Pile Cap (PC 76)	14		14 017/08(6 12-Nov-21		02-Oct-21	19-Oct-21	-34	0%	Construction of Pile Cap (PC 76)
		Construction of Drainage SMH501 to SMH506 and backfilling to forma			140 017/08(6 04-Dec-21 25 017/08(6 11-Dec-21	-	23-Nov-21 23-Nov-21	14-Apr-22 21-Dec-21	-34	0%	Construction of Drainage SMH501 to SMH506 and backfilling to formation level
		Construction of Drainage SMH506 to SMH401 and backfilling to forma			25 017/08(6 13-Jan-22	_	22-Dec-21	22-Jan-22	-16 0	0%	Construction of Drainage SMH5D6 to SMH401 and backfilling to formation level
		Removal of Sheet Pile	6	-	6 017/08(6 15-Feb-22		24-Jan-22	29-Jan-22	-16 0	0%	Remova of Sheet Ple
		Construction of Semi-Noise Enclosure CH13878.6 to CH14021.2 Mair			45 017/08(6 04-Dec-21		15-Jan-22	11-Mar-22	33 0	0%	Construction of Semi-Noise En dosure CH13878.6 to CH14021.2 Main Frame
		Construction of Semi-Noise Enclosure CH13878.6 to CH14021.2 Sub			45 017/08(6 21-Dec-21		04-Feb-22	28-Mar-22	33 0	0%	
		Construction of Watermains, Irigation, Power Cable Ducting, Civil Prov			20 017/08(6 22-Feb-22		31-Jan-22	25-Feb-22	-16 0	0%	Construction of Watermains; Irrigation, Power Cable Ducting, Ovil Provision of TCSS
		Construction of Road Kerb, Road paving and Road Marking at Southe			30 017/08(6 08-Apr-22		26-Feb-22	01-Apr-22	-34 0	0%	Construction of Road Kerb, Road paving and Road Marking at Southern Carri
		Construction of Road Paving, Shrub, Tree Planting, Traffic Sign, Stree	•		30 017/08(6 23-Apr-22		10-Mar-22	14-Apr-22	-34 0	0%	Construction of Road Paving, Shrub, Tree Planting, Traffic Sign, Street Lig
	WO.CA.TTA2SP	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 of Camageway and Roay Marting
	Po Road		648		152 017/08(6 11-Mar-20 A	19-May-22		30-Sep-23	408		19-Vay-22, Wan Po Road
		d Earthing Conductor at Portion III (CE030)	307		0 017/08(6 11-Mar-20 A		30-Sep-23	30-Sep-23			tt Pertion III (¢E030)
	WO1250	Liasion with C1 and CLP for Cable Duct and Earth Conductor at Wan			0 017/08(6 11-Mar-20 A			30-Sep-23	0	100%	
	WO1255	Subtletting and Acceptance of Quotation for TTA	90	110	0 017/08(6 11-Mar-20 A	25-Jul-20	30-Sep-23	30-Sep-23	0	100%	
	WO1257	Application and Approval of TTA	20	6	0 017/08(6 27-Jul-20 A	01-Aug-20	30-Sep-23	30-Sep-23	0	100%	
	WO1258	Application of Road Work Advice	10	12	0 017/08(6 03-Aug-20 A	15-Aug-20	30-Sep-23	30-Sep-23	0	100%	
	WO1259	Set up TTA	1	1	0 017/08(6 17-Aug-20 A	17-Aug-20	30-Sep-23	30-Sep-23	0	100%	
	WO1269	Site Clearance	5	5 5	0 017/08(6 18-Aug-20 A	22-Aug-20	30-Sep-23	30-Sep-23	0	100%	
	WO1279	Excavation for Ducting Works	7	6	0 017/08(6 24-Aug-20 A	29-Aug-20	30-Sep-23	30-Sep-23	0	100%	
	WO1289	Delivery of GI Duct	10	9	0 017/08(6 31-Aug-20 A	09-Sep-2(30-Sep-23	30-Sep-23	0	100%	
	WO1299	Ducting Works	9	9	0 017/08(6 10-Sep-20 A	19-Sep-2(30-Sep-23	30-Sep-23	0	100%	
	WO1309	Backfilling, Reinstatement of Road Works and Closing of TTA	6	6	0 017/08(6 15-Mar-21 A	20-Mar-21	30-Sep-23	30-Sep-23	0	100% T	
	WO1319	Handover to C1 for Power Energization of the E&M Plant Room (CE0)	30) 0	0 0	0 017/08(6	20-Mar-21	· ·	30-Sep-23	0		om (CE030),
	an Po Road Works		267	113	152 017/08(6 24-Jun-21 A	19-May-22	11-Sep-21	18-Mar-22	-47	-	19-Vay-22, Wan Po Road Works
	Footpath		267		152 017/08(6 24-Jun-21 A		11-Sep-21	18-Mar-22	-47	-	
	East Bound (5 stag	ges, ~20m/stage)	152	2 0	152 017/08(6 09-Nov-21	19-May-22	11-Sep-21	18-Mar-22	-47	-	19-I/tay-22, East Bound (5 stages, ~20m/stage)
	WP1140	Implementation of TTA, Trial Pit Excavation and Identification of UU (1	st stag 8	0	8 017/08(6 09-Nov-21		11-Sep-21	21-Sep-21	-47 0	0%	Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stage)
	🛑 WP1150	Civil Provision of TCSS (1st stage)	3	0	3 017/08(6 18-Nov-21	22-Nov-21	21-Sep-21	25-Sep-21	-47 0	0%	Civil Provision of TCSS (1st stage)
	WP1160	Construction of Traffic Sign TS175(7) (1st Stage)	8	0	8 017/08(6 22-Nov-21	01-Dec-21	25-Sep-21	06-Oct-21	-47 0	0%	Construction of Traffic Sign TS175(7) (1st Stage)
	WP1170	Reinstatement of Road Surface and Closing of TTA (1st stage)	5	0	5 017/08(6 01-Dec-21	07-Dec-21		12-Oct-21	-47 0	0%	Reinstatement of Road Surface and Closing of TTA 1st stage)
	WP1180	Implementation of TTA, Trial Pit Excavation and Identification of UU (2)		0	8 017/08(6 07-Dec-21	16-Dec-21		22-Oct-21	-47 0	0%	Implementation of TTA, Trial Pit Excavation and Identification of UV (2nd stage)
	WP1190	Excavation and Construction of Directional Sign Footing DS4 (2nd sta	•	-	6 017/08(6 16-Dec-21	23-Dec-21		29-Oct-21	-47 0	0%	Excavation and Construction of Directional Sign Footing DI\$4 (2rd stage)
	WP1200	Installation of Steel Frame and Directional Sign (2nd stage)	8	-	8 017/08(6 23-Dec-21	05-Jan-22		08-Nov-21	-47 0	0%	► Installation of Steel Frame and Directional Sign (2nd stage)
	WP1200	Construction of Traffic Sign TS175(7) (2nd stage)			8 017/08(6 05-Jan-22	14-Jan-22		17-Nov-21	-47 0	0%	Construction of Traffic Sign TS115() (2nd stage)
			5	-						0%	Consulction of name sign (ST ST St) (2nd stage)
	WP1220	Civil Provision of TCSS (2nd stage)		-	5 017/08(6 14-Jan-22	20-Jan-22		23-Nov-21	-47 0		
	WP1230	Reinstatement of Road Surface and Closing of TTA (2nd stage)	5	0	5 017/08(6 20-Jan-22	26-Jan-22	23-Nov-21	29-Nov-21	-47 0	0%	Reinstatement of Road Surface and Dosing of TA(2hd stage)
٨ - ٢	all and of Eff.					C ·			0.0		Date Revision
Actu	al Level of Effor					Contra	act No.: I	NE/2017/	08		
Actu	ial Work	summary	土木工程	拓展	e C	ross Rav	Link T	seung Kv	van O		08-Mar-21 Monthly Programme Update (Mar 2021
						•		-			08-May-21 Monthy Programme Update (May 2021)
Ken	naining Work		Civil Engine			Road D9	and Asso	ociated W	Vorks		Build King 08-Jul-21 Monthly Programme Update (May 2021) 16-Sep-21 Acceleration Programme
			Developmen	nt Depa	rtment		Page 25 of	26			Build King 16-Sep-21 Acceleration Programme
Critic	cal Remaining W	(OfK									Acceleration Programme

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			Duration Duratio	n Duration				Float	Complete Oct	Nov	Dec	Jan	Feb	Mar	Apr N	1ay Jι	un ,	Jul /	Aug Se	p O	ct No	ov De	e Ja	n Fr	eb Ma	ar Ap	pr May	/ Jun	
	🔲 WP1240	Implementation 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%					mentation							stage)								-
	WP1250	Civil Provision 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%		i	-	📕 Çi	/il Provision	of TCSS	ard Çons	truction	of drawp	t (3rd stag	e)									
	WP1260	Reinstatement 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%					Reinstatem															
	WP1270	Implementation 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%		i			Impleme	ntation of	TA, Trial	Fit Éxca	avation ai	nd Identifica	ation of U	IU (3rd st	age)							
	WP1280	Civil Provision 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%					Civil P	rovision p	f CSS ar	nc Const	truction o	f drawpit (3	rd stage))								
	WP1290	Reinstatement 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%					Rein	staternen	f Road	Surface	and Cos	ing of TTA	(3rd stag	e)								
	WP1300	Implementation 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%					두 🖪 Im	plementa	tion of TT/	A, Trial P	i Excava	tion and Id	entificatio	on of UU	(4th stage	e)						
	WP1310	Civil Provision 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%		-			두 🖬 c	ivil Provisi	or of TCS	S (4th s	stage)								-			
	WP1320	Reinstatement 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%		i	-			Reinstate	err enț of F	Road Su	ir i ace an	d Closing o	f TTĂ (4th	stage)								
	WP1330	Implementation 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%					F	Impe	rrentator	n of TTA	, Trial Pit	Excavation	and Ider	ntification	of UU (5t	th stage)						
	WP1340	Excavation and Construction of Directional Sign Footing DS6 (5th stage)	8	0 8 017/08(6 19-Apr-22	28-Apr-22	18-Feb-22	28-Feb-22	-47 0	0%		i	-			- 🖪 E 🛛	avation a	and Con	struction	of Direction	nal Śign F	ooting E	S6 (5th st	tage)						
	WP1350	Installation of Steel Frame and Directional Sign (5th stage)	6	0 6 017/08(6 28-Apr-22	06-May-22	28-Feb-22	07-Mar-22	-47 0	0%		-	-			⊊ <u>⊨</u>	Installator	n of Stee	e Frame	and Directi	onal Sign) (5th sta	ge)							
	WP1370	Civil Provision of TCSS and Construction of drawpit (5th stage)	5	0 5 017/08(6 06-May-22	13-May-22	07-Mar-22	12-Mar-22	-47 0	0%										nd Constru				/						
	WP1380	Reinstatement of Road Surface and Closing of TTA (5th stage)	5	0 5 017/08(6 13-May-22	19-May-22	12-Mar-22	18-Mar-22	-47 0	0%			1		-	4	Reinst	tatemen	t of Read	I Surface a	nd Çlosin	ig of TTA	(5th stag	e)						
	West Bound (4 S	Stages, ~20m/stage)	237 11	3 122 017/08(6 24-Jun-21 A	08-Apr-22	20-Oct-21	18-Mar-22	-17							08-Apr	2 West E	Bound (4	Stages,	~20m/stac	ie)									
	WP1390	Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stag	10 1	0 0 017/08(6 24-Jun-21 A	06-Jul-21	20-Oct-21	20-Oct-21	0	100% al Pit F	xcavation a	and Ident	fication o	of UU (¦1	st stage)															
	WP1400	Excavation and Construction of Directional Sign Footing DS5 (1st stage)	10 10	3 9 017/08(6 07-Jul-21 A	19-Nov-21	20-Oct-21	30-Oct-21	-17 0	10%	Exc	avation a	nd Const	struction	of Direction	al Sign F	octing DS	5 (1st st	age)											
	WP1410	Installation of Steel Frame and Directional Sign (1st stage)	10	0 10 017/08(6 19-Nov-21	01-Dec-21	30-Oct-21	11-Nov-21	-17 0	0%	- -	Installatio	n of Stee	el Fram	and Direct	ional Sigr	lst stag	e)												
	WP1420	Civil Provision of TCSS and Construction of drawpit (1st stage)	8	0 8 017/08(6 01-Dec-21	10-Dec-21	11-Nov-21	20-Nov-21	-17 0	0%		Civil P	ovision of	of TCS\$	and Cohst	uction of	drawpit (1	st stage												
	WP1430	Reinstatement of Road Surface and Closing of TTA (1st stage)	5	0 5 017/08(6 10-Dec-21	16-Dec-21	20-Nov-21	26-Nov-21	-17 0	0%	5	📕 Rein	statemen	nt of Ro	ad Surface	and Closi	nc of TA	(1st sta	ge)											
	WP1440	Completion of Liasion with C1 for connection of Watermain to E&M Plantroo	0	0 0 017/08(6	16-Dec-21		26-Nov-21	-17 0	0%		🔶 Cộm	pletion of	of Liasio	n with Cil fo	r connect	ion of V/a	termain	to E&M F	antroom,										
	WP1450	Implementation of TTA, Trial Pit Excavation and Identification of UU (2nd stag	10	0 10 017/08(6 16-Dec-21	30-Dec-21	26-Nov-21	08-Dec-21	-17 0	0%			nplemien	ntation	of TTA, Trial	Pit Exca	atonand	Identific	ation of	JU (2nd sta	ige)									
	WP1460	Civil Provision of TCSS and Construction of drawpit and Laying of Watermair	15	0 15 017/08(6 30-Dec-21	18-Jan-22		28-Dec-21	-17 0	0%			Civil	il Provisi	on of TCSS	and Con	struction o	of drawp	it and La	ving of Wat	ermain (2	2nd stag	e)							
	WP1470	Reinstatement of Road Surface and Closing of TTA (2nd stage)	5	0 5 017/08(6 18-Jan-22	24-Jan-22	28-Dec-21	04-Jan-22	-17 0	0%			_		; ment of Ro			1.5												
	WP1480	Implementation of TTA, Trial Pit Excavation and Identification of UU (3rd stag	10	0 10 017/08(6 24-Jan-22		04-Jan-22	15-Jan-22	-17 0	0%				Imple	mentation	of TTA, T	al Pit Ekc	avation	and Iden	tification of	UU (3rd s	stage)								
	WP1490	Civil Provision of TCSS and Construction of drawpit and Laying of Watermair	15	0 15 017/08(6 08-Feb-22	25-Feb-22	15-Jan-22	05-Feb-22	-17 0	0%			_		Civil Provisi	on of TOS	Sand Co	nstructio	on of drav	vpit and La	ving of W	Vatermair	n (3rd stad	qe)						
	WP1500	Reinstatement of Road Surface and Closing of TTA (3rd stage)	5	0 5 017/08(6 25-Feb-22		05-Feb-22	11-Feb-22	-17 0	0%		-								of TTA (3rd	, d			· ·						
	WP1510	Implementation of TTA, Trial Pit Excavation and Identification of UU (4th stag	10	0 10 017/08(6 03-Mar-22		11-Feb-22		-17 0	0%				_				• •	- I I	and ident	-, ·	of UU (4t	n stage)							
	WP1520	Civil Provision of TCSS and Construction of drawpit and Laying of Watermair	15	0 15 017/08(6 15-Mar-22	01-Apr-22			-17 0	0%					_ :			- iii -		ion of drav				l uin (4th sta	age)					
	WP1530	Reinstatement of Road Surface and Closing of TTA (4th stage)		0 5 017/08(6 01-Apr-22	08-Apr-22	-		-17 0	0%										d Closing o					30/			····		
	Carriageway (4 lan		248 11	```			18-Mar-22	-28					_						es/ stages)		3-,								
	WP1000	Trial Pit Excavation and Identification of UU (Existing TTA)	10 1			06-Oct-21	06-Oct-21	0	100% entifica	tion of UU (Existina [']	TA)						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	in oragoo,										
	WP1010	Laying of Ducts for Civil Provision of TCSS (Existing TTA)	8 10	3 7 017/08(6 07-Jul-21 A	17-Nov-21	06-Oct-21	15-Oct-21	-28 0		Layir			: vil Provis	ion of TCS	S (Existing														
	WP1015	Reinstatement of Road Surface and New Road Marking (Existing TTA)	10	0 10 017/08(6 17-Nov-21	29-Nov-21		27-Oct-21	-28 0	0%					urface and I			(Existina	TA)											
	WP1020	Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stag	10	0 10 017/08(6 29-Nov-21	10-Dec-21		08-Nov-21	-28 0	0%					, Trial Pit Ex					t stade)				·		····	·	····		
	WP1030	Laying of Ducts for Civil Provision of TCSS (1st stage)	-	0 8 017/08(6 10-Dec-21	20-Dec-21		17-Nov-21	-28 0	0%					Civil Provisio					,	1									
	WP1090	Reinstatement of Road Surface and New Road Marking (1st stage)	10	0 10 017/08(6 20-Dec-21	04-Jan-22		29-Nov-21	-28 0	0%			-		of Road Su				ng (1st st	age)										
	WP1550	Implementation of TTA, Trial Pit Excavation and Identification of UU (2nd star	10	0 10 017/08(6 04-Jan-22	15-Jan-22		10-Dec-21	-28 0	0%		L.	Imple	ementa	tion of TTA,	Trial Pit	avation	and Ide	entificatio	n of UU (2n	d stage)									
	WP1560	Laying of Ducts for Civil Provision of TCSS (2nd stage)		0 8 017/08(6 15-Jan-22	25-Jan-22		20-Dec-21	-28 0	0%			_		Ducts for 0															
	WP1570	Reinstatement of Road Surface and New Road Marking (2nd stage)	-	0 10 017/08(6 25-Jan-22		20-Dec-21	04-Jan-22	-28 0	0%					statement			11		ing (2nd st	age)					····	·	·		
	WP1580	Implementation of TTA, Trial Pit Excavation and Identification of UU (3rd stag	10	0 10 017/08(6 09-Feb-22		04-Jan-22	15-Jan-22	-28 0	0%			F		nplementat			10				; 3rd \$tarre	e)			-	-			
	WP1590	Laying of Ducts for Civil Provision of TCSS and Construction of drawpit (3rd s		0 12 017/08(6 21-Feb-22		15-Jan-22		-28 0	0%										nd Constru										
	WP1600	Reinstatement of Road Surface and New Road Marking (3rd stage)		0 10 017/08(6 07-Mar-22		29-Jan-22		-28 0	0%				Ģ	Rein:			11												
	WP1610	Implementation of TTA, Trial Pit Excavation and Identification of UU (4th stag		0 10 017/08(6 18-Mar-22		14-Feb-22		-28 0	0%										ation and I	-1.		J (4th stan	ae)						
	WP1620	Laying of Ducts for Civil Provision of TCSS and Construction of drawpit (4th s		0 8 017/08(6 30-Mar-22	09-Apr-22			-28 0	0%										f TCSS an										
	WP1630	Reinstatement of Road Surface and New Road Marking (4th stage)		0 10 017/08(6 09-Apr-22	25-Apr-22			-28 0	0%					드			1.1		e and Nev				olugo)						
			1249 79			07-Mai-22 07-Sep-21		-28 0	070												uniiy (4	in stage)		_				30 .	Лау-2
		Portion I, II and III)														L												- 30-IVI	iciy-2
AISC40		Landscape works	321 15		-	05-Nov-21		-46 0	50%				:	1	1	- a	ndscape	eworks										_	
AISC402		Establishment works		0 365 017/08(7 31-May-22		15-Apr-22	14-Apr-23	-46 0	0%							-												Esta	ablishm
AISC403	30	Tree Preservatiion and Protection Works	939 79	0 178 017/08(6 09-Mar-19 A	18-Jun-22	07-Sep-21	14-Apr-22	-49 0	81%								Tree	Preserva	tiion and P	rotection	Works				1	1			ł

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Milestonesummary



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



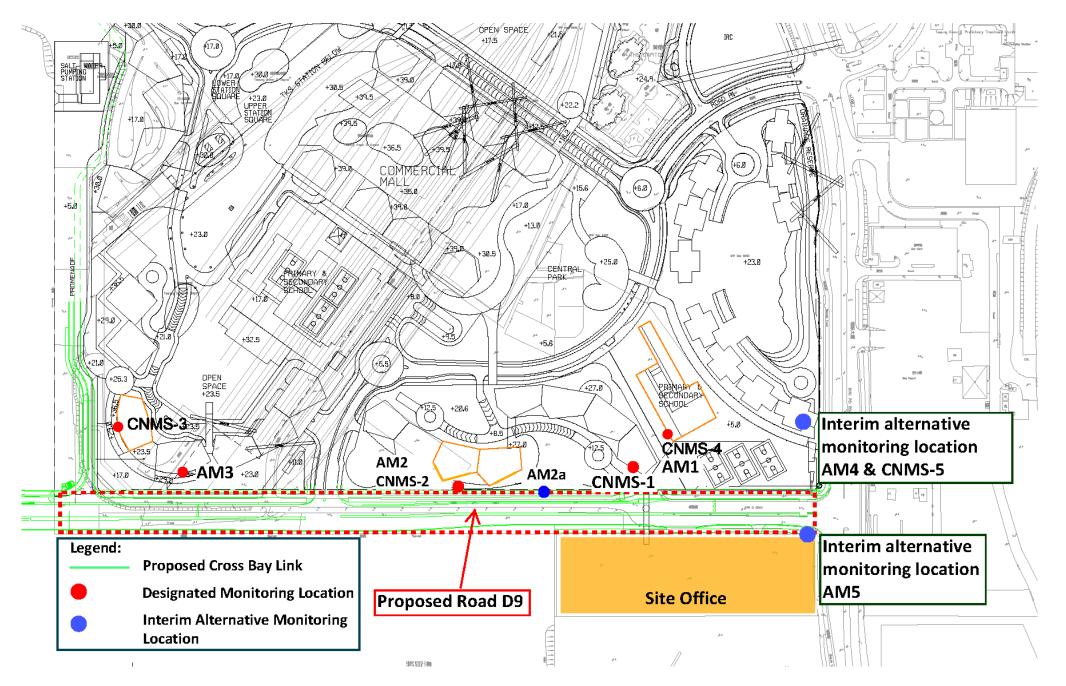
Revision	Checked	Approved
nme Update (Mar 2021)	TL	StL
nme Update (May 2021)	CkT	StL
nme Update (Jul 2021)	CKT	StL
ogramme	CKT	St

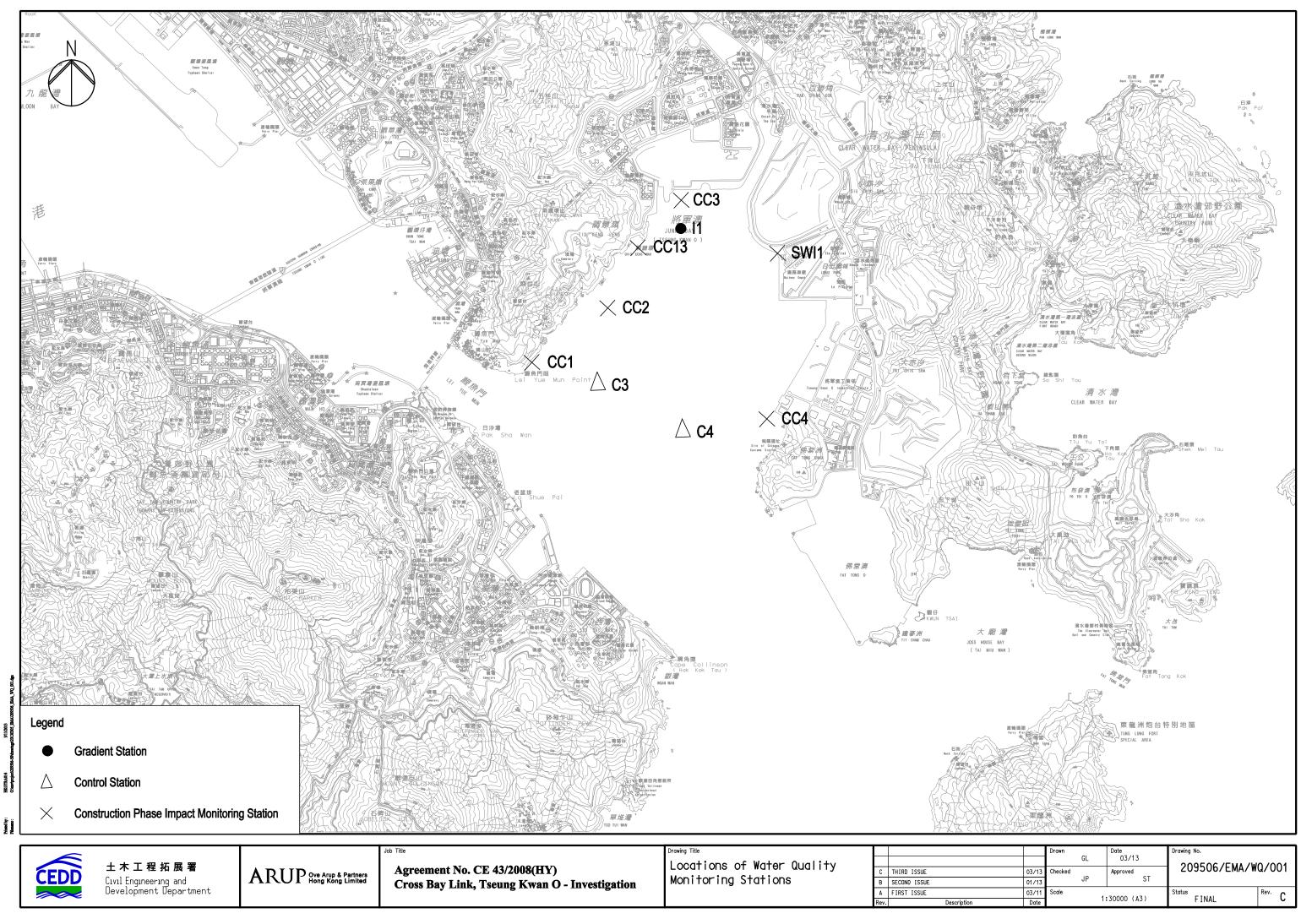
Appendix D

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

AUES





		UL.	03713		0/001
03/13	Checked		Approved	209506/EMA/W	u/001
01/13		JP	ST		
03/11	Scale	4.	20000 (17)	Status	Rev. C
Date		13	30000 (A3)	FINAL	U U

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.

CEDD Contract Agreement No. EDO/04/2018 -Environmental Team for Cross Bay Link, Tseung Kwan O Event and Action Plan for Air Quality Monitoring



	ACTION				
EVENT	Environmental Team (ET)	Independent Environmental Checker (IEC)	Project Consultant	Contractor	
LIMIT LEVEL		1			
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	comparing the results with those	measures with ET and	mitigation measures with	Consultant and confirm	
by two or more	collected at the gradient stations and the	Contractor;	IEC, ET and Contractor;	notification of the	



	ACTION				
EVENT	Environmental Team (ET)	Independent Environmental Checker (IEC)	Project Consultant	Contractor	
sampling days at 2	control stations as appropriate; 2. If exceedance is found to be caused	2. Review proposal on mitigation measures	2. Request Contractor to critically review the	noncompliance in writing;2. Rectify unacceptable	
water sensitive receiver(s) m 3 4 4 e m 5 1 1 6 6 iii 7 ff 8 8 9	by the marine works, repeat <i>in-situ</i> measurement to confirm findings; 3. Inform IEC, contractor and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, and Contractor; 6. Ensure mitigation measures are 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.	submitted by Contractor and advise the Project Consultant accordingly; 3. Assess the effectiveness of the implemented mitigation measures.	 working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures; 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. 	practice; 3. Check all plant and equipment and consider changes of working methods; 4. Discuss with ET, IEC and Project Consultant and submit proposal of mitigation measures to IEC and Project Consultant within 3 working days of notification; 5. Implement the agreed mitigation measures; 6. As directed by the Engineer, to slow down or to stop all or part of the construction activities.	

Appendix F

Impact Monitoring Schedule of the Reporting Month and Coming Month

Impact Monitoring Schedule for the reporting month – December 2021

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

✓ Monitoring Day	
	Sunday or Public Holiday

CEDD Contract Agreement No. EDO/04/2018 -Environmental Team for Cross Bay Link, Tseung Kwan O Monthly Environmental Monitoring & Audit Report – December 2021



Impact Monitoring Schedule for coming month – January 2022

		Schedule for coming month Noise Monitoring		y Monitoring
	Date	(Leq30min)	1-Hour TSP	24-Hour TSP
Sat	1-Jan-22			
Sun	2-Jan-22			
Mon	3-Jan-22			
Tue	4-Jan-22			
Wed	5-Jan-22			✓
Thu	6-Jan-22	✓ √	✓	
Fri	7-Jan-22			
Sat	8-Jan-22			
Sun	9-Jan-22			
Mon	10-Jan-22			
Tue	11-Jan-22			✓
Wed	12-Jan-22	✓	✓	
Thu	13-Jan-22			
Fri	14-Jan-22			
Sat	15-Jan-22			
Sun	16-Jan-22			
Mon	17-Jan-22			✓
Tue	18-Jan-22	✓	✓	
Wed	19-Jan-22			
Thu	20-Jan-22			
Fri	21-Jan-22			
Sat	22-Jan-22			✓
Sun	23-Jan-22			
Mon	24-Jan-22	✓	✓	
Tue	25-Jan-22			
Wed	26-Jan-22			
Thu	27-Jan-22			
Fri	28-Jan-22			✓
Sat	29-Jan-22	✓	✓	
Sun	30-Jan-22			
Mon	31-Jan-22			✓

✓	Monitoring Day
	Sunday or Public Holiday

Appendix G

Calibration Certificates of Equipment and Accreditation Laboratory Certificate



輝創工程有限公司

Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C210388 證書編號

1

Sound Calibrator (EQ089)		
Rion		
NC-75		
34680623		
Action-United Environmental Services a	nd Consulting	
Unit A, 20/F., Gold King Industrial Buil	ding,	
35-41 Tai Lin Pai Road, Kwai Chung, N	.т.	
	Rion NC-75 34680623 Action-United Environmental Services a Unit A, 20/F., Gold King Industrial Buil	Rion NC-75

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 January 2021

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
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試

K P Cheuk

Assistant Engineer

Certified By 核證

K C Lee Engineer

Date of Issue : 簽發日期 20 January 2021

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. : C210388 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 CL130 CL281 TST150A Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier Certificate No. C203952 CDK1806821 C201309

- 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	± 0.25	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value		
(kHz)	(kHz)	Spec.	(Hz)		
1	1.000 0	1 kHz ± 0.1 %	± 0.1		

Remark : 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.

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

The lesi 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. : C210389 證書編號

ITEM TESTED / 送檢巧	百日	(Job No. / 序引編號: IC21-0122)	Date of Receipt / 收件日期: 19 January 2021
Description / 儀器名稱	:	Sound Level Meter (EQ018)	
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NL-52	
Serial No. / 編號	:	00809405	
Supplied By / 委託者	1	Action-United Environmental Services a	and Consulting
		Unit A, 20/F., Gold King Industrial Buil	ding,
		35-41 Tai Lin Pai Road, Kwai Chung, N	I.T.

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}C$ 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 January 2021 :

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
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試

K P Cheuk

Assistant Engineer

Certified By 核證

K C Lee Engineer

Date of Issue 簽發日期

:

20 January 2021

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。



Certificate of Calibration 校正證書

Certificate No. : C210389 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	C210084
CL281	Multifunction Acoustic Calibrator	CDK1806821

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

	UUT	Setting	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	A	Fast	94.00	1	94.1	± 1.1

6.1.2 Linearity

	UU	T Setting	(Applie	UUT		
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	
30 - 130 L _A A		Fast	94.00	1	94.1 (Ref.)		
				104.00		104.1	
- A			1	114.00	1.1.1	114.1	

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	A	Fast	94.00	1	94.1	Ref.
			Slow			94.1	± 0.3

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

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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.: C210389 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	A	Fast	94.00	63 Hz	67.8	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.5
					250 Hz	85.4	-8.6 ± 1.4
	0.11				500 Hz	90.9	-3.2 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	95.3	$+1.2 \pm 1.6$
					4 kHz	95.1	$+1.0 \pm 1.6$
					8 kHz	93.1	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.7	-4.3 (+3.0 ; -6.0)

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	L _C	C	Fast	94.00	63 Hz	93.3	-0.8 ± 1.5
					125 Hz	93.9	-0.2 ± 1.5
					250 Hz	94.1	0.0 ± 1.4
					500 Hz	94.1	0.0 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.3	-0.8 ± 1.6
					8 kHz	91.2	-3.0 (+2.1 ; -3.1)
_					12.5 kHz	87.7	-6.2 (+3.0 ; -6.0)

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. : C210389 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 16463

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :	94 dB :	63 Hz - 125 Hz	: ± 0.35 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	$\pm 0.45 \text{ dB}$
		12.5 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.

本證書所藏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。

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 primwritten approval of this laboratory.

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location	: Near Lo	ohas Park	c Phase 6	5			Date of C	Calibra	tion: 9-Nov	v-21		
Location 2	ID :	AM2a				Ν	Vext Calibra	ation I	Date: 9-Jan	-22		
Name and	l Model: '	TISCH H	HVS Mo	del TE-517)		Т	'echni	cian: Eric			
					(CONDI	TIONS					
							r					
	Se	a Level I	Pressure	(hPa)		1019.3		С	orrected Pr	essure (n	ım Hg)	764.475
		Temp	perature	(°C)		19.5			Tempe	erature (K	()	293
					~	SKATIO						
				Make->					Qstd Sl	-		2.10574
				Model->					Qstd Interc	cept ->		-0.00985
				Serial # ->	194	11						
					C	ALIBR	ATION					
Plate	H20 (L)	H2O (R)	H20	Qstd		Ι	IC			LINEAF	ξ	
No.	(in)	(in)	(in)	(m3/min)	(0	chart)	corrected		RI	EGRESSI	ON	
18	5.40	5.40	10.8	1.585		56	57.22		S	lope = 3	34.4733	
13	4.40	4.40	8.8	1.431		50	51.09		Inter	cept =	1.8175	
10	3.60	3.60	7.2	1.295		44	44.96		Corr. co	oeff. =	0.9963	
7	2.10	2.10	4.2	0.990		36	36.78					
5	1.40	1.40	2.8	0.809		29	29.63					
Calculatio	nne r							E				
Qstd = 1/1		$\Omega(D_0/D_0)$	td)(Tetd	/Ta)) bl		70.0	00	<u>г</u>	LOW RATE	CHARI		
IC = I[Sq;				(1 <i>a))</i> -0]								
IC – 1[54		1)(1300/1	a)]			60.0	00					
Qstd = sta	indard flo	w rate									>	
IC = correction			es			50.0	00				*	
I = actual		-				(jc)						
m = calib		-				8 40.0						
b = calibr	ator Qstd	intercep	t			odse			•			
Ta = actua	al temper	ature dui	ring calil	oration (deg	g K							
Pstd = act	ual press	ure durin	ng calibra	ation (mm	Hg	30.0	00		*			
						Actual chart response (IC)						
	-			npler flow:		⋖ 20.0	00					
1/m((I)[Sqrt(298/	Tav)(Pav	/760)] - t))								
						10.0	00					
m = samp												
b = samp		ept				0.0						
I = chart I	-						0.000	0.500			1.500	2.000
Tav = dai								Sta	andard Flow F	kate (m3/mi	n)	
Pav = dai	ly average	e pressur	e									
I												

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

-													
Location :	: Junction	n of Wan	Po Roa	d and Wan (O R	oad	Date of C	Calibra	ation: 27-Oc	t-21			
Location 1	ID :	AM5				N	Jext Calibra	ation	Date: 27-De	c-21			
Name and	l Model: '	TISCH H	HVS Mo	del TE-517()		Т	<i>`echn</i>	ician: Wai				
					C		TIONS						
				F							F		
	Se	a Level I	Pressure	(hPa)		1016.7		(Corrected Pre	essure (mi	n Hg)	762.5	525
		Temp	berature	(°C)		25.6			Tempe	rature (K))	2	299
				CA	ALIE	BRATIO	N ORIFICE						
				t							г		
				Make->					Qstd Slo		-	2.10574	
				Model->					Qstd Interc	ept ->		-0.0098	5
				Serial # ->	194	1							
					C	ALIBR	ATION						
Plate	H20(L)	H2O (R)	H20	Qstd		Ι	IC			LINEAR			
No.	(in)	(in)	(in)	(m3/min)	(c	hart)	corrected		RF	EGRESSI			
18	5.90	5.90	11.8	1.637		59	58.98			lope = 27			
13	4.30	4.30	8.6	1.398		52	51.98			cept = 13			
10	2.50	2.50	5.0	1.067		43	42.98			eff. = (
7	1.90	1.90	3.8	0.931		39	38.99						
5	1.30	1.30	2.6	0.771		35	34.99						
	•			ι ι	Γ								
Calculatio	ons :					70.0	0	I	FLOW RATE	CHART			
Qstd = 1/r	n[Sqrt(H	20(Pa/Ps	td)(Tstd	/Ta))-b]		70.0							
IC = I[Squ	rt(Pa/Pstd	l)(Tstd/T	'a)]										
						60.0	00						
Qstd = sta	indard flo	w rate											
IC = corrections	ected char	rt respon	es			50.0	00				•		
I = actual	chart resp	ponse				(IC)							
m = calibi	rator Qsto	l slope				8 40.0	0			*			
b = calibra	ator Qstd	intercep	t			esbe							
Ta = actua	al temper	ature dui	ring calil	oration (deg	g K	hart r 30.0	0		·				
Pstd = act	ual press	ure durir	ng calibra	ation (mm I	Hg	5 50.0	10						
						Actual chart response (IC)							
	-			pler flow:		⋖ 20.0	00						
1/m((I)[S	Sqrt(298/	Tav)(Pav	/760)] - t)									
						10.0	00						
m = samp													
b = samp		ept				0.0	0						
I = chart r	-						0.000	0.50	00 1.00	. 00	1.500	2.0	00
Tav = dail								St	tandard Flow R	ate (m3/min)		
Pav = dail	ly average	e pressui	e		L								



RECALIBRATION DUE DATE: January 19, 2022

Certificate of Calibration

Cal. Date:	January 19,	2021	Rootsn	neter S/N:	438320	Ta:	294	°K
Operator:	Jim Tisch					Pa:	755.1	mm Hg
Calibration	Model #:	TE-5025A	Calib	rator S/N:	1941			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	1
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4830	3.2	2.00	1
	2	3	4	1	1.0420	6.4	4.00	
	3	5	6	1	0.9290	8.0	5.00	
	4	7	8	1	0.8840	8.8	5.50	4
	5	9	10	1	0.7340	12.9	8.00	1
			D	ata Tabulat	ion			Ì
			I. Pa	V Tstd \				1
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>) Ta)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-axis	s)	Va	(x-axis)	(y-axis)	
	1.0029	0.6762	1.419	2	0.9958	0.6715	0.8824	1
	0.9986	0.9583	2.007	1	0.9915	0.9516	1.2479	1
	0.9965	1.0726	2.244	0	0.9894	1.0650	1.3952	
	0.9954	1.1260	2.353		0.9883	1.1180	1.4633	
	0.9899	1.3487	2.838		0.9829	1.3391	1.7648	
		m=	2.105			m=	1.31858	
	QSTD	b=	-0.009		QA	b=	-0.00612	
		r=	0.9999	92		r=	0.99992	l.
				Calculation				
			/Pstd)(Tstd/Ta)		∆Vol((Pa-∆F	P)/Pa)	
	Qstd=	Vstd/∆Time				Va/∆Time		
			For subseque	ent flow rat	e calculation	ns:		
	Qstd=	1/m ((1/0H(-	$\frac{Pa}{Pstd} \left(\frac{Tstd}{Ta} \right)$)-b)	Qa=	$1/m \left(\sqrt{\Delta H} \right)$	(Та/Ра))-b)	
1	Standard	Conditions						
Tstd						RECAL	IBRATION	
Pstd		mm Hg		E F		una una a da com	and an entities of	
Allegalihart		ey	. (120)				nnual recalibratio	
		er reading (in eter reading (legulations Part	
		perature (°K)					Reference Meth	
		essure (mm					ended Particulat	
b: intercept			01		the	e Atmosphe	re, 9.2.17, page	30
m: slope				L				

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)467-9009

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT



		11/20400544
CONTACT	: MR BEN TAM	WORK ORDER HK2102511
CLIENT	ACTION UNITED ENVIRONMENT	
	SERVICES AND CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG	DATE RECEIVED : 15-JAN-2021
	KONG	DATE OF ISSUE : 26-JAN-2021
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER +

General Comments

- Samples(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.
- 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	
Ki daved Jong		
Richard Fung	Managing Director	

This is the Final Report and supersedes any preliminary report with this batch 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 Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com WORK ORDER SUB-BATCH

CLIENT PROJECT : HK2102511

: 1 : ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING



 ALS Lab
 Client's Sample ID
 Sample
 Sample Date
 External Lab Report No.

 ID
 Type
 Type
 ID
 ID
 IN: 3Y6503
 AIR
 15-Jan-2021
 S/N: 3Y6503

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	3Y6503
Equipment Ref:	EQ112
Job Order	HK2102511

Standard Equipment:

Standard Equipment:	Higher Volume Sampler
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018
Last Calibration Date:	8 October 2020
Last Calibration Date:	8 October 2020

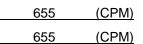
Equipment Verification Results:

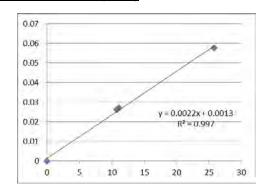
Testing Date:

31 December 2020

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
2hr01min	09:16 ~ 11:17	10.9	1027.0	0.058	3127	25.8
2hr01min	11:19 ~ 11:20	10.9	1027.0	0.027	1347	11.1
2hr01min	11:22 ~ 13:23	10.9	1027.0	0.026	1298	10.8

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





Linear Regression of Y or X

0.0022
0.9985
8 January 2021

Remarks:

1. Strong Correlation (R>0.8)

2. Factor 0.0022 should be apply for TSP monitoring

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



TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Gold King Industrial Bu Location ID : Calibration Room	ilding, Kwai C	Chung	Date of Calibra Next Calibration I				
	CON	DITIONS					
Sea Level Pressure (hPa)1015.2Corrected Pressure (mm Hg)761.4Temperature (°C)25.5Temperature (K)299							
	CALIBRA	TION ORIFICE					
Make Mode Calibration Date	l-> 5025A]	Qstd Slope -> Qstd Intercept -> Expiry Date->	2.03014 -0.04616 7-Feb-21			
	CALI	BRATION					
Plate H20 (L)H2O (R) H20 Qstd No. (in) (in) (in) (m3/m2		IC corrected	LINEAR REGRESSION	I			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 56 5 49 5 42 4 32	56.00 49.00 42.00 32.00 21.00	Slope = $38.$ Intercept = $-11.$	0056 6655 9991			
Calculations : Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration (t deg K)	50.00	FLOW RATE CHART				
Pstd = actual pressure during calibration (r For subsequent calculation of sampler flor 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure	1	0.00	0.500 1.000 1. Standard Flow Rate (m3/min)	500 2.000			

		PL.		-			RECALIB DUE D	
						F		
viro			100		1	L	February	1, 2021
	February 7,	/	Calibration C Rootsm		on Informat	ion Ta: 2		
Operator: . Calibration N	Jim Tisch	TE-5025A	Calik	orator S/N:	1612	Pa: 7	'45.5 mm	Hg
Calibration	10del #.	1E-3023A	Callu	rator s/in:	1012			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔH	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
Γ	1	1	2	1	1.3730	3.2	2.00	
	2	3	4	1	0.9820	6.4	4.00	
	3	5	6	1	0.8780	8.0	5.00	
	4	7	8	1	0.8340	8.8	5.50	
L.	5	9	10	1	0.6900	12.8	8.00	
[D	Data Tabulat	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa V	$\Delta H(Ta/Pa)$	
l	(m3)	(x-axis)	(y-axis		Va	(x-axis)	(y-axis)	
1	0.9866	0.7186	1.407		0.9957	0.7252	0.8896	
	0.9824	1.0004	1.990		0.9914	1.0096	1.2581	
ŀ	0.9802	1.1165	2.225		0.9893	1.1267	1.4066	
ŀ	0.9792	1.1741	2.334		0.9882	1.1849	1.4753	
F	0.5755	1.4114 m=	2.015		0.9020	1.4244 m=	1.27124	
	QSTD	b=	-0.046		QA	b=	-0.02917	
	4515	r=	0.9999		Sec.	r=	0.99995	
ī				Calculation				
F	Vstd=	ΔVol(/Pa-ΔP)/Pstd)(Tstd/Ta			ΔVol((Pa-ΔP)	(Pa)	
F		Vstd/ATime				Va/ATime	// 4/	
			For subseque	ent flow rat				
[Qstd=	1/m ((\\ \[\[\] \ \ \ \ \ \ \ \ \ \ \ \ \	$\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)$))-b)		//	(Ta/Pa))-b)	
		Conditions						-
Tstd:	298.15					RECALI	BRATION	
Pstd:		mm Hg Key			US EPA reco	ommends and	nual recalibration pe	r 1998
AH: calibrato			n H2O)				egulations Part 50 to	
ΔH: calibrator manometer reading (in H2O) ΔP: rootsmeter manometer reading (mm Hg)							Reference Method fo	
ΔP: rootsmet	Ta: actual absolute temperature (°K)							
	solute temp				Determinat	ion of Suspen	nded Particulate Ma	tter in

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)467-9009

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER	HK2102507
CLIENT	ACTION UNITED ENVIRONMENT		
	SERVICES AND CONSULTING		
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH	: 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG	DATE RECEIVED	: 15-JAN-2021
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		CLIENT ORDER	÷

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- 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	
Richard Fung	Managing Director	

This is the Final Report and supersedes any preliminary report with this batch 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 Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com WORK ORDER SUB-BATCH

CLIENT

PROJECT

: HK2102507

¹ 1 ¹ ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING :



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2102507-001	S/N: 366410	AIR	15-Jan-2021	S/N: 366410

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	366410
Equipment Ref:	EQ110
Job Order	HK2102507

Standard Equipment:

Standard Equipment:	Higher Volume Sampler
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018
Last Calibration Date:	8 October 2020

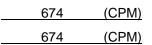
Equipment Verification Results:

Testing Date:

31 December 2020

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
2hr01min	09:16 ~ 11:17	10.9	1027.0	0.058	3158	26.1
2hr01min	11:19 ~ 11:20	10.9	1027.0	0.027	1608	13.3
2hr01min	11:22 ~ 13:23	10.9	1027.0	0.026	1107	9.2

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



0.07 0.06 0.05 0.04 0.03 y = 0.0022x + 0.0016 0.02 $R^2 = 0.9791$ 0.01 0 5 10 15 20 25 30 0

Linear Regression of Y or X Slope (K-factor):

Correlation Coefficient

0.0022	
0.9895	
8 January 2021	

Remarks:

1. Strong Correlation (R>0.8)

2. Factor 0.0022 should be apply for TSP monitoring

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



TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Gold King Industrial Bu Location ID : Calibration Room	ilding, Kwai C	Chung	Date of Calibra Next Calibration I	
	CON	DITIONS		
Sea Level Pressure (hPa) Temperature (°C)	1015.2 25.5		Corrected Pressure (mm H Temperature (K)	Hg) 761.4 299
	CALIBRA	TION ORIFICE		
Make Mode Calibration Date	l-> 5025A]	Qstd Slope -> Qstd Intercept -> Expiry Date->	2.03014 -0.04616 7-Feb-21
	CALI	BRATION		
Plate H20 (L)H2O (R) H20 Qstd No. (in) (in) (in) (m3/m2		IC corrected	LINEAR REGRESSION	I
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 56 5 49 5 42 4 32	56.00 49.00 42.00 32.00 21.00	Slope = $38.$ Intercept = $-11.$	0056 6655 9991
Calculations : Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration (t deg K)	50.00	FLOW RATE CHART	
Pstd = actual pressure during calibration (r For subsequent calculation of sampler flor 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure	1	0.00	0.500 1.000 1. Standard Flow Rate (m3/min)	500 2.000

		PL.		-			RECALIB DUE D		
						F			
viro			100		1	L	February	1, 2021	
	February 7,	/	Calibration C Rootsm		on Informat	ion Ta: 2			
Operator: . Calibration N	Jim Tisch	TE-5025A	Calik	orator S/N:	1612	Pa: 7	'45.5 mm	Hg	
Calibration	10del #.	1E-3023A	Callu	rator s/in:	1012				
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔH		
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)		
Γ	1	1	2	1	1.3730	3.2	2.00		
	2	3	4	1	0.9820	6.4	4.00		
	3	5	6	1	0.8780	8.0	5.00		
	4	7	8	1	0.8340	8.8	5.50		
L.	5	9	10	1	0.6900	12.8	8.00		
[D	Data Tabulat	tion				
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa V	$\Delta H(Ta/Pa)$		
l	(m3)	(x-axis)	(y-axis		Va	(x-axis)	(y-axis)		
1	0.9866	0.7186	1.407		0.9957	0.7252	0.8896		
	0.9824	1.0004	1.990		0.9914	1.0096	1.2581		
ŀ	0.9802	1.1165	2.225		0.9893	1.1267	1.4066		
ŀ	0.9792	1.1741	2.334		0.9882	1.1849	1.4753		
F	0.5755	1.4114 m=	2.015		0.9020	1.4244 m=	1.27124		
	QSTD	b=	-0.046		QA	b=	-0.02917		
	4515	r=	0.9999		Sec.	r=	0.99995		
ī				Calculation					
F	Vstd=	ΔVol(/Pa-ΔP)/Pstd)(Tstd/Ta			ΔVol((Pa-ΔP)	(Pa)		
F		Vstd/ATime				Va/ATime	// 4/		
			For subseque	ent flow rat					
[Qstd=	1/m ((\\ \[\[\] \ \ \ \ \ \ \ \ \ \ \ \ \	$\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)$))-b)		//	(Ta/Pa))-b)		
		Conditions						-	
Tstd:	298.15					RECALI	BRATION		
Pstd:		mm Hg Key			US EPA reco	ommends and	nual recalibration pe	r 1998	
ΔH: calibrato			n H2O)				egulations Part 50 to		
		eter reading							
ΔP: rootsmet					Appendix B to Part 50, Reference Method for				
ΔP: rootsmet Ta: actual abs Pa: actual bas	solute temp				Determinat	ion of Suspen	nded Particulate Ma	tter in	

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)467-9009



Calibration Certificate for Gas-Pro

Number: CCP/80595-

Customer Name:	Tops Instruments Supplies Co.
Address:	Unit 1-5, 20/F., Midas Plaza,
	1 Tai Yau Street, Sanpokong, Hong Kong.
Detector Model:	Crowcon Gas-Pro Portable Gas Detector
Serial Number:	548062/01-001

		Alarm Le	vel Settings		
Sensor Type	Measuring Range	Alarm 1	Alarm 2	Test Gas	Result
CH4	0 to 100%LEL	20	40	50%LEL	Passed
CO (Dual Toxic)	0 to 500ppm	30	100	100ppm	Passed
H2S (Dual Toxic)	0 to 100ppm	5	10	25ppm	Passed
02	0 to 25%vol	19.5	23.5	18.0%vol	Passed
CO2	0 to 5%vol	0.5	1.5	2%vol	Passed

Next Calibration Date: 12th April 2022

Remarks:

- 1. The above equipment has been calibrated in accordance with the methods and procedures set out in Crowcon's LRQA validated ISO9001 quality manual.
- The test equipment used has been calibrated and is traceable to national standards. Standard Calibration gas
 mixtures have been prepared in accordance with BS EN ISO 6145-1-2008. This Gas Detector must be used in
 accordance to the instruction manual.

Authorized Signature

Technical Department Date: 13th April 2021

FireMark Hong Kong Limited Flat A, 11/F., Hop Hing Industrial Building, 704 Castle Peak Road, Lai Chi Kok, Kowloon, Hong Kong. Tel : (852) 2751 8871 Fax : (852) 2751 8806

Appendix H

Database of Monitoring Results

 $Z: \label{eq:loss} 2018 \ CS00975 \ (EDO-04-2018) \ (600 \ EM\&A \ Report \ Submission \ Monthly \ EM\&A \ Report \ 2021 \ CS0097v2. \ docx \ Report \ 2021 \ Robot \$

Air Quality – 24 Hour TSP

24-hour TSP	^o Monitoring	, Data for A	M2a												
DATE	SAMPLE NUMBER		APSED TIN	ME	R	READING TEMP PRESS FLOW RATI			STANDARD FLOW RATE	AIR FILTER WEIGHT VOLUME (g)			DUST WEIGHT COLLECTED	24-hr TSP (µg/m ³)	
	NUMBER	INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m³/min)	(std m ³)	INITIAL	FINAL	(g)	(µg/m)
3-Dec-21	27418	25093.78	25117.78	1440.00	40	42	41.0	18	1021.5	1.16	1664	2.7180 2.847		0.1292	78
9-Dec-21	27663	25117.78	25141.78	1440.00	40	42	41.0	20.2	1022.3	1.15	1658	2.7009	2.8170	0.1161	70
15-Dec-21	27741	25141.78	25165.78	1440.00	41	42	41.5	21.5	1016.1	1.16	1670	2.7023	2.8408	0.1385	83
21-Dec-21	27504	25165.78	25189.78	1440.00	40	41	40.5	17.3	1013.5	1.14	1638	2.7221	2.8043	0.0822	50
24-Dec-21	27755	25189.78	25213.78	1440.00	39	40	39.5	19.9	1017.2	1.11	1592	2.7192	2.8437	0.1245	78
30-Dec-21	62419	25213.78	25237.78	1440.00	40	41	40.5	18.1	1024.6	1.14	1645	2.6771	2.7479	0.0708	43
24-hour TSP	[•] Monitoring	; Data for A	M5												
DATE	SAMPLE	ELA	APSED TIN	ME	CHART READING			AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER V		DUST WEIGHT COLLECTED	24-hr TSP
	NUMBER	INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	(µg/m ³)
3-Dec-21	27731	18736.89	18760.89	1440.00	46	48	47.0	18	1021.5	1.24	1784	2.7095	2.8925	0.1830	103
9-Dec-21	27662	18760.89	18784.89	1440.00	46	48	47.0	20.2	1022.3	1.23	1776	2.7133	2.8927	0.1794	101
15-Dec-21	27740	18784.89	18808.89	1440.00	46	47	46.5	21.5	1016.1	1.21	1737	2.7115	2.9525	0.2410	139
21-Dec-21	27754	18808.89	18832.89	1440.00	45	45	45.0	17.3	1013.5	1.16	1672	2.7016	2.7494	0.0478	29
24-Dec-21	27742	18832.89	18856.89	1440.00	42	44	43.0	19.9	1017.2	1.08	1561	2.7169	2.8536	0.1367	88
30-Dec-21	62418	18856.89	18880.89	1440.00	45	46	45.5	18.1	1024.6	1.19	1708	2.6736	2.8713	0.1977	116

AUES

Construction Noise

Daytime No	ise Mea	asureme	ent Resu	ults (dB)	at CN	MS1														
	Start	1st	Leq (5r	nin)	2nd	Leq (51	nin)	3rd	Leq (51	nin)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5n	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)
10-Dec-21	15:37	64.4	66.5	59.5	64.3	65.5	60.0	66.2	68.0	62.5	67.8	69.5	62.0	69.0	71.5	62.5	68.4	69.5	62.5	67.1
16-Dec-21	15:46	54.2	55.7	51.8	53.8	55.3	51.6	55.5	56.7	52.5	56.9	56.9	52.3	55.4	56.0	52.6	57.2	56.0	52.1	55.7
22-Dec-21	10:22	58.0	59.0	55.0	56.2	57.5	54.0	56.8	58.5	54.5	54.6	55.0	54.0	56.5	58.0	54.5	57.1	58.0	55.0	56.7
28-Dec-21	10:48	57.1	58.4	54.5	61.2	62.7	54.8	56.8	58.4	53.8	59.0	61.5	54.8	58.5	60.7	54.8	62.2	64.7	57.6	59.6
Daytime Noise Measurement Results (dB) at CNMS2																				
	Start	1st	Leq (5r	nin)	2nd	2nd Leq (5min) 3rd Leq (5min)					4th	Leq (5r	nin)	5th	Leq (51	nin)	6th	Leq (5n	nin)	
Date	Time	Leq,	L10, dB(A)	L90, dB(A)	Leq, dB(A)		L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq30min, dB(A)									
10-Dec-21	14:14		66.0	59.5	63.5	65.0	60.5	79.0	81.5	69.5	78.6	81.0	66.0	69.8	74.0	59.5	69.2	72.5	60.5	74.6
16-Dec-21	16:18	66.3	69.4	61.3	65.0	69.4	56.7	64.7	68.5	55.2	68.5	71.6	62.3	66.6	69.1	57.8	65.7	68.7	56.0	66.3
22-Dec-21	10:56	64.4	65.5	62.0	64.1	65.5	61.5	63.1	64.0	60.5	63.8	65.5	59.5	63.8	65.5	61.5	63.6	65.5	59.0	63.8
28-Dec-21	9:39	64.8	68.1	57.2	64.6	67.4	58.4	62.4	64.5	58.5	62.9	65.4	59.5	61.9	64.8	56.9	58.4	60.3	54.7	62.9
Daytime No	ise Mea	asureme	ent Resi	ults (dB)	at CNI	MS5														
	Stort.	1st	Leq (5r	nin)	2nd	Leq (51	nin)	3rd	Leq (51	nin)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5n	nin)	
Date	Start 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)
10-Dec-21	13:23	61.9	64.0	58.5	60.6	63.0	57.5	62.2	64.0	59.0	62.9	65.0	60.0	63.7	65.5	60.5	62.5	65.0	59.5	62.4
16-Dec-21	14:57	64.7	67.5	59.5	63.5	67.9	59.2	62.0	65.8	57.3	65.0	67.7	56.2	63.5	67.5	57.3	64.1	67.7	57.5	63.9
22-Dec-21	9:36	63.9	65.0	61.5	64.6	67.0	62.0	63.6	64.5	61.0	63.3	65.0	61.0	64.3	67.0	62.0	63.1	65.0	58.5	63.8
28-Dec-21	10:12	63.2	65.6	60.3	61.5	63.3	58.5	61.8	64.2	57.1	61.0	63.9	57.0	60.3	62.4	56.8	63.2	64.7	57.3	62.0

AUES

Evening No	ise Mea	surement Results	(dB) at CNMS1							
	Start		1st Leq (5min)			2nd Leq (5min)			3rd Leq (5min)	
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)
14-Dec-21	20:40	48.9	50.0	47.5	50.0	51.0	48.5	51.3	54.0	48.0
30-Dec-21	20:06	49.2	51.5	46.5	50.0	52.0	47.0	49.9	51.5	47.5
Evening No	ise Mea	surement Results	(dB) at CNMS2							
1st Lea (5min) 2nd Lea (5min) 3rd Lea (5min)										
Data	Start 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)
14-Dec-21	21:06	52.4	56.0	47.0	44.0	45.0	43.0	46.9	46.5	43.0
30-Dec-21	20:29	44.1	44.5	43.5	45.2	46.5	43.5	44.5	45.0	43.5
Evening No	ise Mea	surement Results	(dB) at CNMS5							
	Start		1st Leq (5min)			2nd Leq (5min)			3rd Leq (5min)	
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)
14-Dec-21	19:52	58.0	61.5	52.5	58.4	62.0	52.0	59.1	62.0	53.0
30-Dec-21	19:39	58.8	62.0	53.5	60.0	62.0	54.0	59.0	61.5	53.5

Nighttime N	loise Me	easurement Resul	lts (dB) at CNMS	1							
	Start		1st Leq (5min)			2nd Leq (5min)			3rd Leq (5min)		
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)	
14-Dec-21	23:24	49.2	50.1	47.2	50.0	51.0	47.4	49.6	50.4	51.0	
Nighttime Noise Measurement Results (dB) at CNMS2											
Start		1st Leq (5min)			2nd Leq (5min)			3rd Leq (5min)			
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)	
14-Dec-21	23:44	47.8	48.4	44.9	48.5	49.6	45.2	47.2	49.2	44.8	
Nighttime N	loise Me	easurement Resu	lts (dB) at CNMS	5							
	Start		1st Leq (5min)			2nd Leq (5min)			3rd Leq (5min)		
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)	
14-Dec-21	23:02	56.2	58.2	53.6	56.3	58.4	53.8	55.8	58.2	53.1	

					Landfill Ga	s Monitorin	g Results (Wan O Road)					
Monitoring						thane (%)			xygen (%)			on Dioxide (%	,
Location	Date	Time	Weather	Temperature (°C)	Measurement Result	Action Level	Limit Level	Measurement Result	Action Level	Limit Level	Measurement Result	Action Level	Limit Level
	1/11/2021	8:30	Sunny	24	0	10		20.7	19	18	0	015	1.5
	1/11/2021	14:00	Sumy	25	0	10	20	20.7	19	18	0	0.0	1.5
	2/11/2021	8:30	Sunny	24	0	10		20.7	19	18	0	0.0	1.5
	2/11/2021	14:00		28	0	10	20	20.7	19	18	0	0.0	1.
	3/11/2021	8:30	Sunny	24	0	10	20	20.7	19	18	0	015	1.5
	3/11/2021	14:00	,	27	0	10	20	20.7	19	18	0		1.5
	4/11/2021	8:30	Sunny	24	0	10	20	20.7	19	18	0		1.5
	4/11/2021	14:00	-	27	0	10		20.7	19	18	0		1.5
	5/11/2021	8:30	Cloudy	23 28	0	10	20	20.7	19	18	0	015	1.5
	5/11/2021	14:00		28	0	10	20	20.7	19	18	0	0.0	1.5
	6/11/2021	8:30	Cloudy	33	0	10		20.8	19	18	0		1.5
	6/11/2021	14:00			0	10	20	20.8	19	18	0	015	1.5
	8/11/2021 8/11/2021	8:30 14:00	Sunny	18 25	0	10	20	20.7	19 19	18	0		1.5
	8/11/2021 9/11/2021	8:30		17	0	10	20	20.7	19	18	0		1.5
	9/11/2021	14:00	Sunny	23	0	10	20	20.7	19	18	0	0.0	1.5
	9/11/2021	8:30		18	0	10		20.7	19	18	0	0.0	1.5
	11/11/2021	14:00	Sunny	25	0	10		20.7	19	18	0		1.5
	12/11/2021	8:30		20	0	10		20.7	19	18	0	0.0	1.5
	12/11/2021	14:00	Sunny	26	0	10	20	20.6	19	18	0		1.5
	13/11/2021	8:30		20	0	10	20	20.0	19	18	0	0.0	1.5
	13/11/2021	14:00	Sunny	26	0	10	20	20.7	19	18	0	0.0	1.5
	15/11/2021	8:30		20	0	10	20	20.7	19	18	0		1.5
	15/11/2021	14:00	Cloudy	26	0	10	20	20.7	19	18	0		1.5
	16/11/2021	8:30		21	0	10		20.7	19	18	0	015	1.5
Wan O Road	16/11/2021	14:00	Cloudy	26	0	10	20	20.7	19	18	0	0.0	1.5
	17/11/2021	8:30		22	0	10	20	20.7	19	18	0		1.5
	17/11/2021	14:00	Cloudy	27	0	10	20	20.7	19	18	0		1.5
	18/11/2021	8:30	0	20	0	10	20	20.7	19	18	0	0.5	1.5
	18/11/2021	14:00	Sunny	26	0	10		20.7	19	18	0	0.5	1.5
	19/11/2021	8:30	C	21	0	10	20	20.7	19	18	0	0.5	1.5
	19/11/2021	14:00	Sunny	26	0	10	20	20.7	19	18	0	0.5	1.5
	20/11/2021	8:30	Sunny	22	0	10	20	20.7	19	18	0	0.5	1.5
	20/11/2021	14:00	Sunny	26	0	10	20	20.7	19	18	0	0.5	1.5
	22/11/2021	8:30	Cloudy	17	0	10	20	20.7	19	18	0	0.5	1.5
	22/11/2021	14:00	Cioudy	23	0	10		20.7	19	18	0	0.5	1.5
	23/11/2021	8:30	Cloudy	14	0	10	20	20.7	19	18	0	0.0	1.5
	23/11/2021	14:00	cioudy	17	0	10	20	20.7	19	18	0	015	1.5
	24/11/2021	8:30	Sunny	17	0	10		20.7	19	18	0	0.0	1.5
	24/11/2021	14:00	Sumy	22	0	10	20	20.7	19	18	0	0.0	1.5
	25/11/2021	8:30	Sunny	18	0	10		20.7	19	18	0		1.5
	25/11/2021	14:00		24	0	10	20	20.7	19	18	0	0.0	1.5
	26/11/2021	8:30	Sunny	19	0	10		20.7	19	18	0		1.5
	26/11/2021	14:00	,	25	0	10		20.7	19	18	0		1.5
	27/11/2021	8:30	Sunny	19	0	10	20	20.7	19	18	0	0.0	1.
	27/11/2021	14:00	,	24	0	10	20	20.7	19	18	0	0.0	1.5
	29/11/2021	8:30	Sunnv	19	0	10		20.7	19	18	0		1.5
	29/11/2021	14:00	Sunny	26	0	10	20	20.7	19	18	0	0.0	1.
	30/11/2021	8:30	Sunny	17	0	10	20	20.7	19	18	0	0.0	1.5
	30/11/2021	14:00	Samy	25	0	10	20	20.7	19	18	0	0.5	1.

Remark: I

Parameter	Criteria	Measurement
Oxygen	Action Level	< 19%
	Limit Level	< 18%
Methane	Action Level	> 10% LEL (> 0.5% v/v)
	Limit Level	> 20% LEL (>1% v/v)
Carbon Dioxide	Action Level	> 0.5%
	Limit Level	> 1.5%



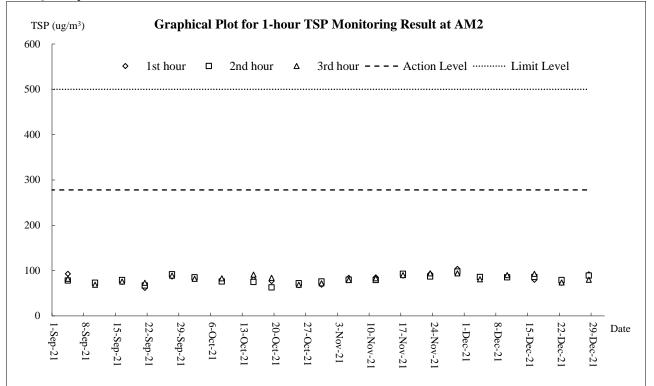
Appendix I

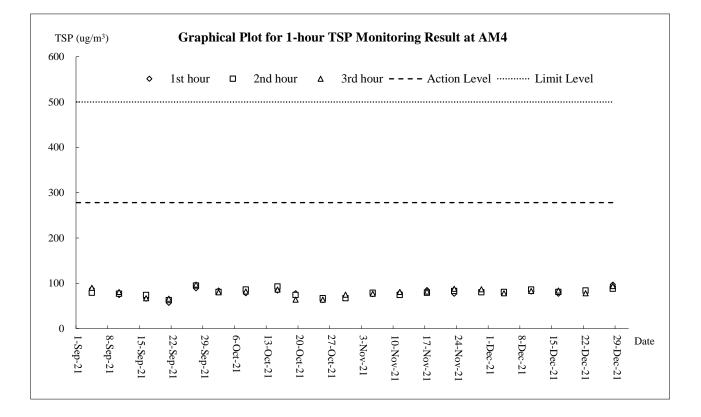
Graphical Plots of Monitoring Results

CEDD Contract Agreement No. EDO/04/2018 -Environmental Team for Cross Bay Link, Tseung Kwan O Monthly Environmental Monitoring & Audit Report – December 2021



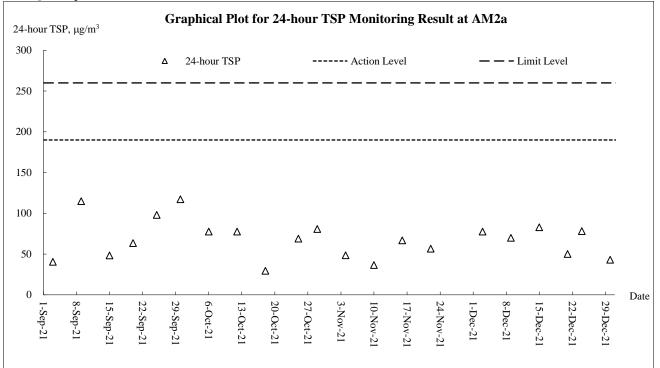
Air Quality – 1 Hour TSP

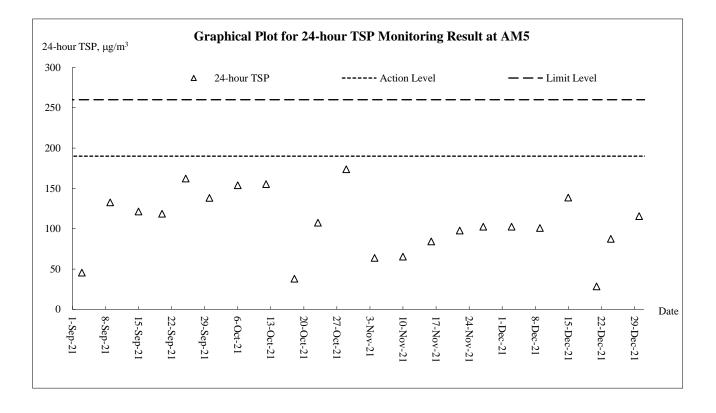






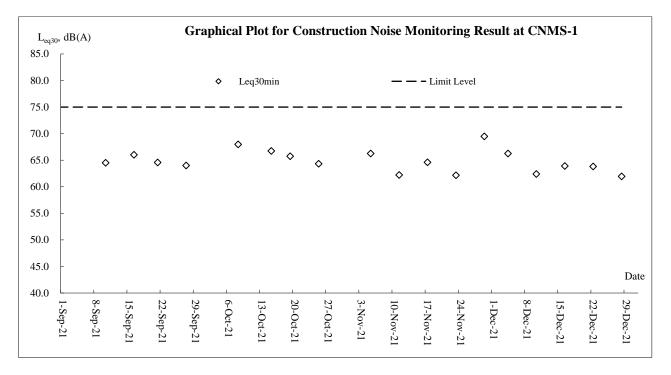
Air Quality - 24-Hour TSP

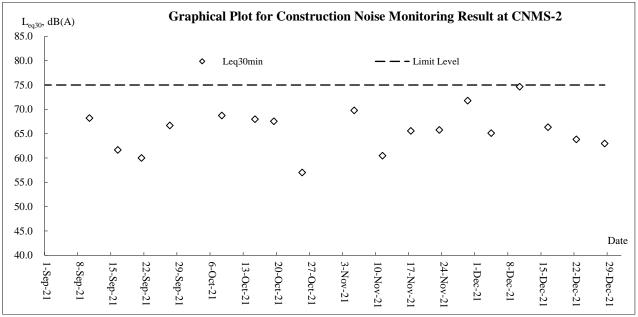


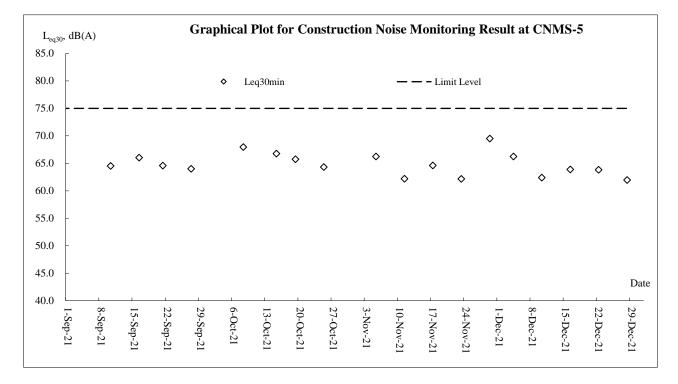




Construction Noise







AUES



Appendix J

Meteorological Data

 $Z: \label{eq:loss} 2018 \ CS00975 \ (EDO-04-2018) \ (600 \ EM\&A \ Report \ Submission \ Monthly \ EM\&A \ Report \ 2021 \ CS0097v2. \ docx \ Robot \ Submission \ Robot \ Submission \ Submission \ Robot \ Submission \ Submissi$

CEDD Contract Agreement No. EDO/04/2018 -Environmental Team for Cross Bay Link, Tseung Kwan O Monthly Environmental Monitoring & Audit Report – December 2021



				Ts	eung Kv	wan O Station	l
Date		Weather	Total Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction (degree)
1-Dec-21	Wed	Moderate east to northeasterly winds.	0	Maintenance	10	Maintenance	E/NE
2-Dec-21	Thu	Dry with sunny periods during the day.	0	16.9	7.5	37	E/NE
3-Dec-21	Fri	Moderate northeasterly winds.	0	17.3	8	30.7	E/NE
4-Dec-21	Sat	Sunny intervals during the day.	0	17.7	10	42.7	E/NE
5-Dec-21	Sun	Dry with sunny periods during the day.	0	18.9	6.2	48.2	E/NE
6-Dec-21	Mon	Sunny intervals in the afternoon.	0	18.4	6.2	54.5	E/NE
7-Dec-21	Tue	Moderate east to northeasterly winds.	0	18.4	9	63.5	E/NE
8-Dec-21	Wed	Dry in the afternoon.	0	20.1	10	55.7	E/NE
9-Dec-21	Thu	It will be fine.	0	20.1	10.5	60.5	N/NE
10-Dec-21	Fri	Moderate to fresh northerly winds	0	20.3	6.2	57.5	N/NE
11-Dec-21	Sat	Mainly cloudy.	0	Maintenance	9.7	58	E/NE
12-Dec-21	Sun	Moderate to fresh northerly winds	0	Maintenance	5.5	Maintenance	E/NE
13-Dec-21	Mon	Sunny intervals in the afternoon.	0	Maintenance	7.5	Maintenance	E/NE
14-Dec-21	Tue	Moderate north to northeasterly winds.	Trace	21.2	7.0	66.7	E/NE
15-Dec-21	Wed	Cool in the morning.	0.2	21.2	7.5	80.0	E/NE
16-Dec-21	Thu	Sunny periods.	Trace	23.6	7.5	80.5	NE
17-Dec-21	Fri	Moderate to fresh northerly winds	0	21.3	8.7	75	N/NE
18-Dec-21	Sat	Sunny intervals in the afternoon.	0	18.5	10.2	65	N/NE
19-Dec-21	Sun	Moderate east to northeasterly winds.	0	17.7	11.2	46.7	NE
20-Dec-21	Mon	Moderate east to northeasterly winds.	9.4	17.1	11.5	68.7	E/NE
21-Dec-21	Tue	Sunny intervals during the day.	2.4	16.3	10	91.2	NE
22-Dec-21	Wed	Mainly cloudy. One or two rain	Trace	19.2	6.2	13.1	E/NE
23-Dec-21	Thu	Mainly cloudy with one or two rain patches tonight.	0.8	20.3	7.5	74.2	E/NE
24-Dec-21	Fri	Mainly cloudy. Sunny intervals during the day.	1.7	20.3	3.7	85	E/SE
25-Dec-21	Sat	Mainly fine and dry.	Trace	19.1	7	71	E/SE
26-Dec-21	Sun	Moderate north to northeasterly winds.	3.6	14.1	6	91	E/NE
27-Dec-21	Mon	Some haze in the afternoon.	13	12.3	8.2	78.7	E/NE
28-Dec-21	Tue	Mainly fine and dry.	0.2	15.3	8	73.2	E/NE
29-Dec-21	Wed	Fine and dry	0	Maintenance	4.5	70.7	E/NE
30-Dec-21	Thu	Mainly cloudy. Sunny periods in the afternoon.	0	18.2	6.2	74.5	E/NE
31-Dec-21	Fri	Moderate to fresh east to northeasterly winds	Trace	18.6	6.2	76	E/NE



Appendix K

Waste Flow Table



Contract 1

 $Z: \label{eq:loss} 2018 \ CS00975 \ (EDO-04-2018) \ (600 \ EM\&A \ Report \ Submission \ Monthly \ EM\&A \ Report \ 2021 \ CS097v2. \ docx \ Report \ 2021 \ Robot \ 2021 \$

Monthly Summary Waste Flow Table for <u>2021</u> (year)

Name of Person completing the record: Calvin So (EO)

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

		Actual Quantit	ies of Inert C&l	D Materials Gei	nerated Monthly		Ac	tual Quantities	of C&D Wastes	s Generated Mo	nthly
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	0.132	0.000	0.000	0.000	0.132	0.000	0.000	0.113	0.000	0.000	0.399
Feb	0.108	0.000	0.000	0.000	0.108	0.000	0.000	0.186	0.000	0.000	0.351
Mar	0.060	0.000	0.000	0.000	0.060	0.000	0.000	0.099	0.000	0.000	0.512
Apr	0.018	0.000	0.000	0.000	0.018	0.000	0.000	0.121	0.000	0.000	0.283
May	0.576	0.000	0.000	0.000	0.576	0.000	0.000	0.103	0.000	0.000	0.278
Jun	1.170	0.000	0.000	0.000	1.170	0.000	0.000	0.210	0.000	0.000	0.437
Sub-total	2.064	0.000	0.000	0.000	2.064	0.000	0.000	0.832	0.000	0.000	2.259
Jul	0.060	0.000	0.000	0.000	0.060	0.000	0.000	0.155	0.000	0.000	0.204
Aug	0.018	0.000	0.000	0.000	0.018	0.000	0.000	0.170	0.000	0.000	0.157
Sep	0.066	0.000	0.000	0.000	0.066	0.000	0.000	0.141	0.000	0.000	0.284
Oct	0.036	0.000	0.000	0.000	0.036	0.000	0.000	0.151	0.000	0.000	0.211
Nov	0.498	0.000	0.000	0.000	0.498	0.000	0.000	0.160	0.000	0.000	0.343
Dec	0.006	0.000	0.000	0.000	0.006	0.000	0.000	0.154	0.000	0.000	0.181
Total	2.748	0.000	0.000	0.000	2.748	0.000	0.000	1.763	0.000	0.000	3.639

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 \ 2021 \ CS097v2. \ docx \ Report \ 2021 \ Robot \ 2021 \$

		Actual Qua	ntities of Inert C&I	Materials Generat	ed Monthly			Actual Quantities	s of C&D Wastes G	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Borken Concrete	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (See note 3)	Chemical Waste	Other, e.g. general refuse
	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m ³]
Jan	1.685	0.000	0.000	0.000	1.685	0.744	0.005	0.050	0.020	0.000	0.032
Feb	0.244	0.000	0.000	0.000	0.244	0.307	0.005	0.050	0.020	0.000	0.011
Mar	2.449	0.000	0.000	0.000	2.449	0.000	0.006	0.070	0.030	0.000	0.026
Apr	2.634	0.000	0.000	0.000	2.634	0.000	0.006	0.050	0.020	0.000	0.026
May	0.390	0.000	0.000	0.000	0.390	0.000	0.003	0.100	0.020	0.000	0.044
June	0.287	0.000	0.000	0.000	0.287	0.000	0.002	0.150	0.030	0.000	0.009
SUB- TOTAL	7.689	0.000	0.000	0.000	7.689	1.051	0.027	0.470	0.140	0.000	0.147
Jul	0.180	0.000	0.000	0.000	0.180	0.000	0.002	0.150	0.030	0.000	0.019
Aug	0.284	0.000	0.000	0.000	0.284	0.000	0.005	0.100	0.005	0.000	0.035
Sep	0.310	0.000	0.000	0.000	0.310	0.000	0.000	0.050	0.000	0.000	0.036
Oct	0.256	0.000	0.000	0.000	0.256	0.000	0.000	0.000	0.000	0.000	0.023
Nov	2.079	0.000	0.000	0.000	2.079	0.000	0.000	0.000	0.000	0.000	0.046
Dec	1.837	0.000	0.000	0.000	1.712	0.125	0.000	0.000	0.000	0.000	0.056
TOTAL	12.634	0.000	0.000	0.000	12.509	1.176	0.034	0.770	0.175	0.000	0.362

Monthly Summary Waste Flow Table for 2021 Year

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



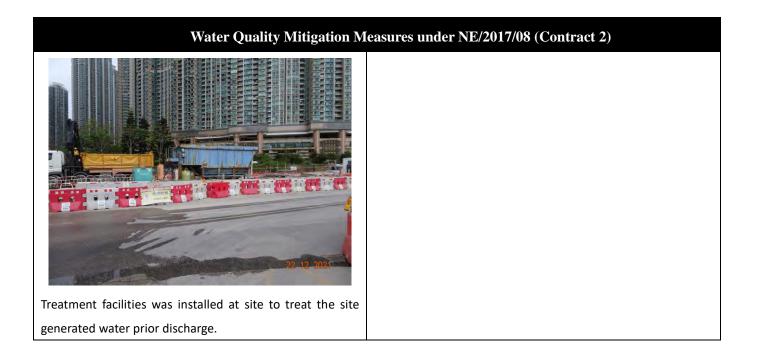
Appendix L

Implementation Record of Water Mitigation Measures in the Reporting Month

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



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)					
S5.5.5.1	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
\$5.5.5.3	 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 road section between the 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		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
	 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
\$5.5.5.5	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 	To minimize construction noise impact arising from the Project on the affected NSRs	All construction sites	Contractor	Construction stage	• Annex 5, TM-EIAO
\$6.6.4.5-6	on-site construction activities. 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
\$6.6.4.7	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) (Drawing no.	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)					
\$8.6.4.3	 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 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. Adequate 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. 	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
\$8.6.4.4	 adjacent to the works site. 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

EIA Ref Environmental Protection Measures // Mitigation Measures // Mitigation Measures // Mitigation Measures // Mitigation // Mitigation Measures // Mitigation // Mit			Objectives of the		Impler	nentation	Requirements
 the contractor prior to the commencement of construction; Open stockplies of construction materials (for example, aggregates, sand and fill material) of more than 50m3 shall be covered with trapaulin or similar fabric during ministorms. Measures shall be taken to prevent the washing away of construction materials, soil, sill or debris and he like is deposited by them on roads. An adequately designed and site dwelle washing facilities shall be ported 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 sity water to public roads and drains; Construction solid waste, debris and the like is close of and disposed of property to avoid water to public roads and drains; Construction solid waste, debris and nearbing to advect the washing facilities to a shall be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and sity water to public roads and drains; Construction solid waste, debris and the like and site of the provided with bucks and drains; Construction solid waste, debris and the provided with locks and site of the conspicuous locations to remaind the workers not to discharge any sewage or wastewater into the member, weedhad and lish ponds. S8.6.4.6 Sewage from workforce Portable chemical toilets and sewage holding tanks shall be rowater to the member. Weedhad lish ponds. S8.6.4.6 	EIA Ref	Environmental Protection Measures/ Mitigation Measures		Location/ Timing	Agent	Stage	
S8.6.4.6 Sewage from workforce Control potential water All construction sites Contractor Construction • TM-EIAO; and • Portable chemical toilets and sewage holding tanks shall be provided for handling the construction sewage generated by control potential water All construction sites Contractor Construction • TM-EIAO; and		 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 side 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 					
	S8.6.4.6	Sewage from workforce • Portable chemical toilets and sewage holding tanks shall be	quality impacts from	All construction sites	Contractor		

		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
	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
S8.7.3.2	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	 <u>Good Site Practices</u> 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		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
\$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
\$9.5.5-6	 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		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	
	 authorities; and Disposal of waste should be done at licensed waste disposal facilities. 						
S9.5.8-11	 C&D Materials 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 	
S9.5.13	 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		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
	 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; 					
	 Be choiced on at least 5 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		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
	 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 	Main Concerns to Address				Je Acmeveu
\$9.5.18	Be to a re-user of the waste, under approval from EPD. Sewage 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)
S9.5.19	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
S10.9.1.1	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.		Selected monitoring stations (Drawing no. 209506/EMA/WQ/001)	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
		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	Construction stage	

		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. CM9 – Control night-time lighting and glare by hooding all lights. 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	
\$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		Implen	nentation	Requirements and/or Standards to be Achieved
EIA Ref	Environmental Protection Measures/ Mitigation Measures	Recommended Measures & Main Concerns to Address	Location/ Timing	Agent	Stage	
	 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						X 1011 5
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 Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements
EIA Ref				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					

		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. 	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)
	are in excess of the trigger levels or that of oxygen is below the level specified in the Emergency Management in the following section, then evacuation shall be initiated.					
\$14.7.8-9	Emergency management In the event of the trigger levels specified in Table 14.6 of the EIA report being exceeded, a person, such as the Safety	Health and safety of the workers	Confined space of construction sites within 250m Consultation Zone	Contractor	Construction stage	• Landfill Gas 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