#### 14-1-2024

By hand

Environmental Protection Department Environmental Assessment Division Metro Assessment Group Kowloon Section (2) 27th floor, Southorn Centre, 130 Hennessy Road, Wan Chai, Hong Kong (Attn: Mr. TANG Ho Him, Matthew)

Dear Mr. TANG,

Contract No. EDO 2/2020 Environmental Monitoring Works for Contract No. ED/2018/05 – Kai Tak Development – Stage 5B Infrastructure Works at the Former North Apron Area <u>Submission of Monthly EM&A Report for December 2023</u>

We refer to the Environment Permit (EP) No. EP-337/2009 for the captioned project.

Pursuant to Condition 3.3 of the EP-337/2009, please find enclosed four hard copies and one electronic copy of Monthly EM&A Report for December 2023, which has been verified by the IEC for your reference.

Thank you very much for your attention and please feel free to contact Mr. Lee at 9382 4204 should you require further information.

Yours faithfully,

For and on behalf of Ka Shing Management Consultant Limited

AKCL Applied knowledge center limited Company Secretary





Date: 15 January 2024 Your ref: Our ref: PL-202401036

AECOM Asia Company Limited 12/F, Grand Central Plaza, Tower 2, 138 Shatin Rural Committee Road, Shatin, New Territories, Hong Kong

#### Attn.: Ms. Mavis Law, SRE

Dear Ms. Law,

#### Re: Agreement No. EDO 6/2019 Independent Environmental Checker for Contract No. ED/2018/05 Kai Tak Development – Stage 5B Infrastructure Works at the Former North Apron Area Verification of Monthly EM&A Report (December 2023)

Reference is made to the Monthly EM&A Report (December 2023) (Version 1.1) issued by the Environmental Team on 15 January 2024.

Please be informed that we have no adverse comment on the captioned submission. We hereby verify the Monthly EM&A Report (December 2023) in accordance with Condition 3.3 of Environmental Permit No. EP-337/2009.

Thank you for your attention.

Yours sincerely, For and on behalf of Acuity Sustainability Consulting Limited

Kevin Li Independent Environmental Checker

c.c.

CEDD Ka Shing Attn.: Mr. Albert Tse Attn.: Mr. Chan Pang (ETL) By email By email

# **Environmental Monitoring and Audit Report**

for

## **Contract No. ED/2018/05 –**

# Kai Tak Development – Stage 5B infrastructure works at the former north apron area

## Contract No.: EDO 2/2020

December 2023

(Version 1.1)

Certified By:	Jan.
	(Environmental Team Leader)

### **Table of Content**

## Page

EXECU'	TIVE SUMMARY	i
	Breaches of Action and Limit Levels5	,
	Complaint log5	,
	Notifications of summons and successful prosecutions	)
	Report changes	)
	Key construction works in the reporting month6	)
	Future key issues7	,
1.	INTRODUCTION	;
	Project Background	;
	Project Organization9	)
	Works Area and Construction Programme9	)
	Construction works undertaken during reporting month10	)
	Submission Status under the Environmental Permits	)
2.	AIR QUALITY MONITORING11	
	Monitoring Requirements11	
	Monitoring Locations	
	Monitoring Parameters, Frequency and Duration11	
	Monitoring Equipment	
	Monitoring Methodology and QA/QC Procedure	;
	Wind Data Monitoring	i
	Action and Limit Levels	i
	Impact Air Quality Monitoring results16	)
3.	NOISE MONITORING17	,
	Monitoring Requirements17	,
	Monitoring Locations	,

	Monitoring Parameters, Frequency and Duration	.17
	Monitoring Equipment	. 18
	Monitoring Methodology and QA/QC Procedure	. 18
	Maintenance and Calibration	. 19
	Action and Limit Levels	. 19
	Impact Noise Monitoring results	. 20
4.	COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS	.21
5.	LANDSCAPE AND VISUAL MONITORING	. 23
	Results and Observations	. 23
6.	ENVIRONMENTAL SITE INSPECTION AND AUDIT	. 24
	Site Inspection	. 24
	Status of Waste Management	. 25
	Status of Environmental Licenses, Notification and Permits	.26
	Implementation Status of Environmental Mitigation Measures	. 26
	Environmental Complaint and Non-compliance	. 26
	Notifications of summons and successful prosecutions	. 27
7.	FUTURE KEY ISSUES	. 28
	Construction Programme in the coming month	. 28
	Environmental Site Inspection and Monitoring Schedule for next month	. 29
8.	CONCLUSIONS	. 30

#### List of Tables

Table I	Non-compliance Record in the Reporting Month
Table II	Summary of complaints in the Reporting Month
Table III	Summary of summons and successful prosecutions in the Reporting Month
Table IV	Summary of future key issues and potential impact in the coming month
Table 1.1	Contact Information of Key Personnel

- Table 1.2Major activities of the Project during reporting month
- Table 1.3 Summary of Status of Required Submission of EPs
- Table 2.1
   Locations of Air Quality Monitoring Stations
- Table 2.2
   Air Quality Monitoring Parameters, Frequency and Duration
- Table 2.3Air Quality Monitoring Equipment
- Table 2.4
   Action and Limit Levels of 24-hour average TSP for Construction Dust Monitoring
- Table 2.5 Action and Limit Levels of 1-hour average TSP for Construction Dust Monitoring
- Table 2.6
   Summary of 24-hour average TSP Monitoring Data during the reporting month
- Table 2.7
   Summary of 1-hour average TSP Monitoring Data during the reporting month
- Table 3.1
   Locations of Noise Monitoring Stations
- Table 3.2
   Noise Monitoring Parameters, Frequency and Duration
- Table 3.3Noise Monitoring Equipment
- Table 3.4
   Baseline Noise Level and Action and Limit Levels for Construction Noise Monitoring
- Table 3.5
   Summary of Noise Monitoring Data during the reporting month
- Table 4.1
   Comparison of 24-hour average TSP Monitoring Data with EIA predictions
- Table 4.2
   Comparison of 1-hour average TSP Monitoring Data with EIA predictions
- Table 4.3
   Comparison of Noise Monitoring Data with EIA predictions
- Table 5.1
   Summary of observations of Landscape and Visual impact during the reporting month
- Table 6.1
   Summary of site inspections observations during the reporting month
- Table 6.2
   Summary of Environmental Licenses, Notifications and Permits
- Table 6.3Summary of complaints in the Reporting Month
- Table 6.4
   Summary of summons and successful prosecutions in the Reporting Month
- Table 7.1
   Summary of future key issues and potential impact in the coming month

#### List of Figure

- Figure 1 Proposed works of Contract No. ED/2018/05
- Figure 2 Proposed works of Contract No. ED/2018/05
- Figure 3 D1 Road Site Layout Plan

- Figure 4 Site Layout Plan
- Figure 5 Air Quality Monitoring Stations
- Figure 6 Noise Monitoring Stations

#### **List of Appendices**

- Appendix A Organization Chart of EM&A Team
- Appendix B Construction Programme
- Appendix C Environmental monitoring schedules
- Appendix D Photographic records
- Appendix E Calibration certificates, catalogue of air quality monitoring equipment
- Appendix F Weather information
- Appendix G 24-hr TSP monitoring results and graphical presentation
- Appendix H 1-hr TSP monitoring results and graphical presentation
- Appendix I Event and Action Plan for air quality
- Appendix J Calibration certificates, catalogue of noise monitoring equipment
- Appendix K Noise monitoring results and graphical presentation
- Appendix L Event and Action Plan for noise
- Appendix M Event and Action Plan for Landscape and Visual Impact
- Appendix N Waste Flow Table
- Appendix O Environmental Mitigation Implementation Schedule (EMIS)
- Appendix P Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

## **EXECUTIVE SUMMARY**

1. This is the 35<sup>th</sup> Monthly Environmental Monitoring & Audit (EM&A) report which summarises the findings of the EM&A Programme during the reporting period from 1 to 31 December 2023.

#### **Breaches of Action and Limit Levels**

- 2. 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 3. 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 4. Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 5. Summary of the non-compliance in the reporting month for the Project is tabulated in Table I.

 Table I
 Non-compliance Record in the Reporting Month

Donomotor	No. of Ex	A ation Talson	
Parameter	Action Level	Limit Level	Action Taken
1-hr TSP	0	0	N/A
24-hr TSP	0	0	N/A
Construction noise	0	0	N/A

#### Complaint log

6. No complaint was received in the reporting month. Summary of complaints in the reporting month is tabulated in Table II.

Date of complaint received	Date of compliant	Description of complaint	Recommendations / Action taken	Close-out date / Status
No complaint was received in the reporting month.	NA	NA	NA	NA

Table II Summary of complaints in the Reporting Month

#### Notifications of summons and successful prosecutions

7. No notification of summons and successful prosecutions was received in the reporting month. Summary of summons and successful prosecutions in the reporting month is tabulated in Table III.

	<i>v v</i>	is and successful prosecutio	1 0	
Date of receiving notification of summons or prosecutions	Date of event	Description of event	Action taken	Close-out date / Status
No	NA	NA	NA	NA
notification				
of summons				
and				
successful				
prosecutions				
were				
received in				
the reporting				
month.				

Table III Summary of summons and successful prosecutions in the Reporting Month

#### **Report changes**

8. There was no reporting change in the reporting month.

#### Key construction works in the reporting month

- 9. Major construction activities undertake during the reporting month included:
  - Erect falsework and working platform for Decking of Elevated Walkway LW-02
  - Dismantling Falsework and Portal Frame at LW-02
  - RC Construction for Decking of Elevated Walkway LW-02
  - RC Construction of LW02 Lift and Staircase
  - Installation of post tensioning anchorage system at LW-02
  - Construction of Permanent Shaft Structure of SB-01
  - Road and Drain Construction works for Road L16, Commercial Street and Road D1

- Construction works for DCS
- Modification Works for Rising Main chamber K1
- Road and drain construction works at Olympic Avenue
- Renovation works for Subway KS10 Lift and Staircase
- Renovation works for existing subways KS9, KS32 and KS10
- Construction of Retaining Wall Type 1 for S14
- Construction of Pile Cap for S14
- Construction works for SMH404 and SMH505

#### **Future key issues**

10. The future key issues and potential impact in the coming month are given in Table IV.

<u>Table IV Summary of future key issues and potential impact in the coming month</u>				
Future key issues in the coming month	Potential impact			
Erect falsework and working platform for Decking of Elevated Walkway LW-02	Noise and Air Quality			
Dismantling Falsework and Portal Frame at LW-02	Noise and Air Quality			
RC Construction for Decking of Elevated Walkway LW-02	Noise and Air Quality			
RC construction of LW02 lift and staircase	Noise and Air Quality			
Installation of post tensioning anchorage system at LW-02	Noise and Air Quality			
Construction of Permanent Shaft Structure of SB-01	Noise and Air Quality			
Road and drain construction works of Road L16, Commercial Street and Road D1	Noise and Air Quality			
Construction Works for DCS 2A5B and 2A10	Noise and Air Quality			
Road and Drain Construction works at Olympic Avenue	Noise and Air Quality			
Renovation works for Subway KS10 Lift and Staircase	Noise and Air Quality			
Construction of Retaining Wall Type 1 for S14	Noise and Air Quality			
Construction of Parapet for S14	Noise and Air Quality			
Construction works for SMH404 and SMH505	Noise and Air Quality			

Table IV Summary of future key issues and potential impact in the coming month

## **1. INTRODUCTION**

#### **Project Background**

- 1.1 The Kai Tak Development (KTD) is located in the southern part of Kowloon Peninsula of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling.
- 1.2 Contract No. ED/2018/05 Kai Tak Development stage 5B infrastructure works at the former north apron area (The Project), comprises mainly the design and construction of a section of dual two-lane Road D1; single two-lane Road L9 and Road L16; a single-lane slip road S14; a pedestrian subway SB-01; an elevated walkway LW-02; renovation of the existing pedestrian subways KS9, KS10 and KS32, as well as modification of the southern end of the existing pedestrian subway KS10; associated footpaths, street lighting, traffic aids, drainage, sewerage, water mains, landscaping, electrical and mechanical works, and ancillary works. The proposed works are shown in Figure 1 and Figure 2. The proposed works and site boundary are shown in Figure 3 and Figure 4. Civil Engineering and Development Department (CEDD) had completed an Environmental Impact Assessment (EIA) and is the Permit Holder.
- 1.3 In accordance with the approved EIA Reports, Environmental Monitoring and Audit (EM&A) programmes are recommended to ensure compliance with the EIA study recommendations. The project proponent was the Civil Engineering and Development Department (CEDD). AECOM Asia Co. Ltd. (AECOM) was commissioned by CEDD as Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual). Acuity Sustainability Consulting Limited (Acuity) was commissioned as the Independent Environmental Checker (IEC). Build King STEC Joint Venture (Build King) was appointed as the main Contractor for the construction works of Contract No. ED/2018/05. Ka Shing was commissioned by CEDD to undertake the role of the Environmental Team (ET) to implement the EM&A programme for The Project.
- 1.4 The construction work under ED/2018/05 comprises the EM&A Manual (EIA Register No. AEIAR-130/2009 for Kai Tak Development) and Environmental Permit No. EP- 337/2009.
- 1.5 Air quality and noise monitoring has been proposed in the EM&A Manual with EIA Register No. AEIAR-130/2009 for Kai Tak Development.

#### **Project Organization**

1.6 The project organization chart and with respect to the EM&A programme is shown in AppendixA. Information of key personnel contact names and telephone numbers are summarized in Table1.1.

Party	Role	Contact Person	Position	Phone No.	E-mail
Civil Engineering and Development Department (CEDD)	Project Proponent	Mr. Dennis Fung	Permit Holder	3842 7087	<u>dycfung@cedd.go</u> <u>v.hk</u>
AECOM Asia Co. Ltd. (AECOM)	Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual)	Mr. Vincent Lee	Supervisor's Delegate	2798 0771	<u>sre2@ktd-</u> stage5.com
Acuity Sustainability Consulting Limited (Acuity)	Independent Environmental Checker (IEC)	Mr. Kevin Li	IEC	9779 2247	<u>kevin.li@aurecon</u> group.com
Ka Shing Management Consultant Limited (Ka Shing)	Environmental Team (ET)	Mr. Pang Chan	ET Leader	6082 2973	<u>stage5b@ka-</u> shing.net
Build King – STEC Joint Venture (BK- STEC)	Contractor	Mr. Rex Lau	Contractor's Representative	6282 5154	<u>rex.lau@buildking</u> <u>.hk</u>

Table 1.1 Contact Information of Key Personnel

#### Works Area and Construction Programme

 The construction works commenced on 16 February 2021. The construction programme of the Project is given in Appendix B.

#### Construction works undertaken during reporting month

1.8 Major construction works of the Project in the reporting month are summarized in Table 1.2:

Erect falsework and working platform for	Road and Drain Construction works at Olympic		
Decking of Elevated Walkway LW-02	Avenue		
Dismantling Falsework and Portal Frame at	Construction works for DCS		
LW-02	Construction works for DCS		
RC Construction for Decking of Elevated	Renovation works for Subway KS10 Lift and		
Walkway LW-02	Staircase		
DC Construction of LWO2 Lift and Stainage	Renovation works for existing subways KS9,		
RC Construction of LW02 Lift and Staircase	KS32 and KS10		
Installation of post tensioning anchorage system	Construction of Retaining Wall Type 1 for S14		
at LW-02			
Road and Drain Construction works for Road	Construction of Pile Cap for S14		
L16, Commercial Street and Road D1			
Modification works for Rising Main chamber	Construction of Permanent Shaft Structure of		
K1	SB-01		
Construction works for SMH404 and SMH505			

Table 1.2 Major activities of the Project during reporting month

#### **Submission Status under the Environmental Permits**

1.9 The status of required submission under Environmental Permit (EP) conditions under EP-337/2009 are summarized in Table 1.3.

EP Condition EP-337/2009	Submission	Submission Date
Condition 1.11	Notification of Commencement Date of Construction of the Project	12 Jan 2021
Condition 2.3	Management Organization of Main Construction Companies	21 Sep 2020
Condition 2.3	Updated Management Organization of Main Construction Companies	4 July 2022
Condition 2.4	Design Drawings	12 Jan 2021
Condition 2.11	Landscape Mitigation Plans	17 Dec 2020
Condition 3.2	Baseline Monitoring Report	12 Jan 2021
Condition 3.3	Monthly EM&A Report (Nov 2023)	19 Dec 2023

Table 1.3 Summary of Status of Required Submission of EPs

## 2. AIR QUALITY MONITORING

#### **Monitoring Requirements**

2.1 In accordance with EM&A Manual (EIA Register No. AEIAR-130/2009), impact air quality monitoring shall be carried out during the construction phase of the Project. For regular impact monitoring, a sampling frequency of at least once in every six days will be strictly observed at all of the monitoring stations for 24-hour TSP. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days will be undertaken when the highest dust impact occurs.

#### **Monitoring Locations**

2.2 Two designated monitoring stations were selected for air quality monitoring programme. Impact air quality monitoring was conducted at two air quality monitoring stations in the reporting month. Table 2.1 describes the air quality monitoring locations, which are also depicted in Figure 5.

Table 2.1 Locations of Air Quality Monitoring Stations

Air Quality Monitoring Locations for the Project	Location of Measurement
AM2(A) – Ng Wah Catholic Secondary School	Rooftop
AM3 – Sky Tower	Podium floor near T7

#### **Monitoring Parameters, Frequency and Duration**

2.3 The air quality monitoring locations and monitoring frequency are listed in Table 2.2.

Air Monitoring Station	Location for Measurement	Parameter	Duration	Frequency
AM2(A) – Ng Wah Catholic Secondary School	Rooftop	- 24-hour average TSP	- 24 hours	- Once every 6 days

Table 2.2 Air Quality Monitoring Parameters, Frequency and Duration

Air Monitoring Station	Location for Measurement	Parameter	Duration	Frequency
AM3 – Sky Tower	Podium Floor near Tower 7	- 1-hour average TSP	- 1 hour	- Three times every 6 days

- 2.4 The monitoring schedule for reporting month and next month is presented in Appendix C.
- 2.5 Photographic records of the impact monitoring setup are shown in Appendix D.

#### <u>Monitoring Equipment</u>

2.6 24-hour average TSP and 1-hour average TSP levels were measured for impact monitoring. 24-hour average TSP levels were measured by the High Volume Samplers (HVS) and 1-hour average TSP levels were measured by direct reading method to indicate short-term impacts. Wind data monitoring equipment was set up at conspicuous locations for logging wind speed and wind direction near to the dust monitoring locations. Table 2.3 summarizes the equipment to be used in the air quality monitoring.

Equipment	Model	Quantity	Calibration Interval
HVS Sampler	TE-5170 X c/w of TSP sampling inlet	2	2 months
HVS Calibrator	TISCH TE-5025A	1	1 year
1-hour TSP Dust Meter	TSI Model AM510 SidePak Personal Aerosol Monitor	2	1 year
Weather Station	Davis Vantage Pro2 Weather Station	1	6 months

Table 2.3 Air Quality Monitoring Equipment

- 2.7 High volume samplers (HVS) (TE-5170 X c/w of TSP sampling inlet) comprising with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).
- 2.8 Calibration certificates, catalogue of equipment are given in Appendix E.

#### Monitoring Methodology and QA/QC Procedure

#### 24-hour TSP Monitoring

#### **Operating/Analytical Procedures**

2.9 Setup criteria of HVS are shown as follows:

- A horizontal platform with appropriate support to secure the samplers against gusty wind was provided.
- No two samplers were placed less than 2m apart.
- The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
- A minimum of 2m of separation from walls, parapets and penthouses was set for the rooftop samples.
- A minimum of 2m separation from any supporting structure, measured horizontally was set.
- No furnaces or incineration flues was nearby.
- Airflow around the sampler was unrestricted.
- Any wire fence and gate, to protect the samplers, was not caused any obstruction during monitoring.
- Permission were obtained to setup the samplers and to obtain access to the monitoring stations.
- A secured supply of electricity was provided to operate the samplers.
- 2.10 Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m<sup>3</sup>/min. and 1.7 m<sup>3</sup>/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.11 For TSP sampling, Glass Fiber Filter Media 8" x 10" having a collection efficiency of > 99 % for particles of 0.3  $\mu$ m diameter were used.
- 2.12 The power supply was checked to ensure the sampler worked properly and then placed any filter media at the designated air quality monitoring station.
- 2.13 The filter holding frame was removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.

- 2.14 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure was sufficient to avoid air leakage at the edges.
- 2.15 The shelter lid was closed and secured with the aluminium strip.
- 2.16 The timer was programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- 2.17 After sampling, the filter was removed from the HVS and put into a clean and labeled seal plastic bag to avoid cross contamination. The elapsed time was also be recorded. The sampled filters were sent to the HOKLAS accredited or other internationally accredited laboratory for weighting.

#### Maintenance/Calibration

- 2.18 The following maintenance/calibration are required for the HVS:
  - The HVS and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
  - High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

#### 1-hour TSP Monitoring

#### Measurement Procedures

- 2.19 The measurement procedures of the 1-hour TSP were conducted in accordance with the Manufacturer's Instruction Manual as follows:
  - Set up the dust meter on a tripod at 1.2m level.
  - Turned on the dust meter and check the battery, if too low, change new ones. Pointed the meter to the source area or the planned measurement area.
  - The zero calibration of the instrument was conducted before and after each sampling.
  - TSP levels were recorded for 1-hour with 5-minute data logging interval.
  - Recorded down the general meteorological conditions, Test ID no., start/end time, spot check reading at each sampling location for data processing.

• Recorded any activities that may generate dust during measurement period.

#### Maintenance/Calibration

2.20 The following maintenance/calibration are required for the direct dust meters:

• To validate the accuracy of dust meter, compare the results measured by dust meter and HVS every 12 months throughout all stages of the air quality monitoring.

#### Wind Data Monitoring

- 2.21 Wind Anemometer was installed at the roof-top of AM2(A) Ng Wah Catholic Secondary School with 10m above ground and clear of constructions or turbulence caused by the buildings.
- 2.22 The wind data was captured by a data logger and the data was downloaded at least once per month for analysis.
- 2.23 The wind data monitoring equipment will be re-calibrated at least once every six months.
- 2.24 Wind direction is divided into 16 sectors of 22.5 degrees each.
- 2.25 Details of weather information during the monitoring period are shown in Appendix F.

#### Action and Limit Levels

2.26 The Action and Limit Levels of 24-hour average TSP and 1-hour average TSP are summarized in Table 2.4 and Table 2.5 respectively.

Table 2.4 Action and Limit Levels of 24-hour average TSP for Construction Dust Monitoring

Parameter	Air Monitoring Station	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
24 hour overage TCD	AM2(A)	175	260
24-hour average TSP	AM3	172	260

Parameter	Air Monitoring Station	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
1 hour overege TCD	AM2(A)	302	500
1-hour average TSP	AM3	301	500

Table 2.5 Action and Limit Levels of 1-hour average TSP for Construction Dust Monitoring

#### **Impact Air Quality Monitoring results**

2.27 Impact monitoring results for 24-hour average TSP and 1-hour average TSP levels at the designated air quality monitoring stations are summarized in Table 2.6 and Table 2.7 respectively.

Table 2.6 Summary of 24-hour average TSP Monitoring Data during the reporting month

Air Quality Monitoring Station	Average TSP Concentration, µg/m <sup>3</sup>	Range, μg/m <sup>3</sup>	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM2(A)	45	27 - 53	175	260
AM3	59	38 - 92	172	260

Table 2.7 Summary of 1-hour average TSP Monitoring Data during the reporting month

Air Quality Monitoring Station	Average TSP Concentration, µg/m <sup>3</sup>	Range, µg/m <sup>3</sup>	Action Level, μg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM2(A)	49	35 - 62	302	500
AM3	64	41 – 95	301	500

- 2.28 There was no Action and Limit Level exceedance of 24-hour average TSP and 1-hour average TSP levels recorded during the reporting month.
- 2.29 Graphical presentation and detailed monitoring results of 24-hour average TSP and 1-hour average TSP levels are shown in Appendix G and Appendix H respectively.
- 2.30 The Event and Action Plan is provided in Appendix I.
- 2.31 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 2.32 Weather conditions during the monitoring periods were generally fine and did not affect the monitoring results.

## 3. NOISE MONITORING

#### **Monitoring Requirements**

- 3.1 In accordance with EM&A Manual (EIA Register No. AEIAR-130/2009), impact noise monitoring shall be carried out during the construction phase of the Project.
- 3.2 Regular monitoring,  $L_{Aeq, 30-minute}$ , for each station will be on a weekly basis and conduct one set of measurements between 0700 1900 hrs on normal weekdays.
- 3.3 If construction works are extended to include works during 1900 0700 hrs as well as public holidays and Sundays, additional weekly impact monitoring will be carried out during the respective restricted hours periods.

#### **Monitoring Locations**

3.4 Two designated monitoring stations were selected for noise monitoring programme. Impact noise monitoring was conducted at two noise monitoring stations in the reporting month. Table 3.1 describes the noise monitoring locations, which are also depicted in Figure 6.

Noise Monitoring Locations for the Project	Location of Measurement
M4(A) – Le Billionnaire	Podium (Façade)
M5(A) – Prince Ritz	Podium (Façade)

Table 3.1 Locations of Noise Monitoring Stations

#### **Monitoring Parameters, Frequency and Duration**

3.5 The noise monitoring locations and monitoring frequency are listed in Table 3.2.

Noise Monitoring Station	Location for Measurement	Parameter	Frequency and Duration
M4(A) – Le Billionnaire	Podium (Façade)	L. L. Land	30-minute measurement at each monitoring station between 0700
M5(A) – Prince Ritz	Podium (Façade)	$L_{Aeq}$ , $L_{A10}$ and $L_{A90}$	<ul> <li>1900 hrs on normal weekdays</li> <li>(Monday to Saturday) at frequency of once per week.</li> </ul>

Table 3.2 Noise Monitoring Parameters, Frequency and Duration

- 3.6 The monitoring schedule for reporting month and next month is presented in Appendix C.
- 3.7 Photographic records of the monitoring setup are shown in Appendix D.

#### **Monitoring Equipment**

3.8 As referred to the Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO), sound level meters in compliance with the IEC 61672-1 (Class 1) standard [this standard replaced the International Electrotechnical Commission Publications 60651:1979 (Type 1) and 60804:1985 (Type 1)] were used for noise monitoring. Table 3.3 summarizes the equipment to be used in the noise monitoring.

Table 3.3 Noise Monitoring Equipment

Equipment	Model	Quantity	Calibration Interval
Sound Level Meter	RION NL52	1	1 year
Sound Level Calibrator	RION NC74	1	1 year
Air Flowmeter	TSI TA440 Air Velocity	1	1 year

3.9 Calibration certificates, catalogue of equipment are given in Appendix J.

#### **Monitoring Methodology and QA/QC Procedure**

3.10 The noise level measurement was conducted at 1m from the exterior of the nearby noise sensitive receivers building façade and at 1.2m above the ground and facing to the source area or the planned measurement area.

- 3.11 No noise measurement was conducted in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. Air flow was measured by air flow meter.
- 3.12 Turned on the sound level meter and check the battery, if too low, change new ones.
- 3.13 Calibration was conducted immediately prior to and after each noise measurement, the accuracy of the sound level meters was checked by using sound calibrator generating 1,000 Hz with 94dB. Measurement data was found to be valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB.
- 3.14 Noise level was recorded.
- 3.15 Recorded any activities that may generate noise during measurement period.

#### Maintenance and Calibration

- 3.16 The microphone of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.17 The sound level meter and sound calibrator were calibrated annually by HOKLAS accredited laboratory or equivalent.

#### Action and Limit Levels

3.18 The Baseline Noise Levels and Action and Limit Levels for construction noise is presented in Table 3.4.

-	tuble 5.4 Duseline Hoise Level and Action and Linit Levels for Construction Hoise Montioning						
	Time Period	Noise Monitoring Station	Baseline Noise Levels, dB (A)	Action Level	Limit Level ^		
-	0700 – 1900 hrs	M4(A)	69.5	When one	2000		
	on normal			documented complaint	75 dB(A)		
	weekdays	M5(A)	72.5	is received.	( )		

Table 3.4 Baseline Noise Level and Action and Limit Levels for Construction Noise Monitoring

Note: ^ If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

#### **Impact Noise Monitoring results**

3.19 Impact noise monitoring results at the designated noise monitoring stations are summarized in Table 3.5 respectively.

Noise Monitoring Station	Measured L <sub>Aeq, 30-</sub> min, Average, dB(A)	Measured L <sub>Aeq, 30-</sub> min, Range, dB(A)	Action Level	Limit Level <sup>^</sup>
M4(A)	71.3	71.0 - 71.6	When one documented	75
M5(A)	74.4	74.2 - 74.6	complaint is received	dB(A)

Table 3.5 Summary of Noise Monitoring Data during the reporting month

Note: ^ If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

- 3.20 There was no Action and Limit Level exceedance of L<sub>Aeq, 30-min</sub> recorded during the reporting month.
- 3.21 Graphical presentation and detailed monitoring results are shown in Appendix K.
- 3.22 The Event and Action Plan is provided in Appendix L.
- 3.23 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 3.24 Weather conditions during the monitoring periods were generally fine and did not affect the monitoring results.

### 4. COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

4.1 The environmental impacts predictions were given in Agreement No. CE 35/2006(CE) Kai Tak Development Engineering Study cum Design and Construction of Advance Works -Investigation, Design and Construction - Kai Tak Development Environmental Impact Assessment Report, EIA Register No. AEIAR-130/2009 for Kai Tak Development (The EIA Report). The EM&A data was compared with the EIA predictions as summarized in Table 4.1 to Table 4.3.

 Table 4.1 Comparison of 24-hour average TSP Monitoring Data with EIA predictions

 Predicted Cumulative

Air Quality Monitoring Station	ASR No. in EIA report		Cumulative our average TSP atration Scenario 2 (Mid 2013 to Late 2016), µg/m <sup>3</sup>	Measured 24-hr average TSP in Reporting Month (Dec 2023) µg/m <sup>3</sup>
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	27 - 50
AM3 - Sky Tower	A40^	106^	138^	38 - 92

Note:

^ Prediction results are given in the Table 3.13 of the EIA Report (EIAO Register No. AEIAR-130/2009) for Kai Tak Development.

Table 4.2 Comparison of 1-hour average TSP Monitoring Data with EIA predictions

Air Quality Monitoring Station	ASR No. in EIA report	Maximum 1-ho	Cumulative our average TSP atration Scenario 2 (Mid 2013 to Late 2016), µg/m <sup>3</sup>	Measured 1-hr average TSP in Reporting Month (Dec 2023) µg/m <sup>3</sup>
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	35 - 62
AM3 - Sky Tower	A40^	217^	247^	41 – 95

Note:

^ Prediction results are given in the Table 3.13 of the EIA Report (EIAO Register No. AEIAR-130/2009) for Kai Tak Development.

Noise Monitoring Station	NSR No. in EIA report	Predicted Mitigated Construction Noise Levels during Normal Daytime Working Hour L <sub>Aeq, 30min</sub> , dB(A)	Measured Noise Level in Reporting Month (Dec 2023) L <sub>Aeq, 30min</sub> , dB(A)
M4(A) – Le Billionnaire	NA	NA	71.0 - 71.6
M5(A) – Prince Ritz	NA	NA	74.2 - 74.6

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

- 4.2 No prediction in the EIA Report for 24-hour TSP monitoring results at AM2(A).
- 4.3 24-hour TSP monitoring results at AM3 was recorded lower than the prediction in the EIA Report. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 4.4 No prediction in the EIA Report for 1-hour TSP monitoring results at AM2(A).
- 4.5 1-hour TSP monitoring results at AM3 was recorded lower than the prediction in the EIA Report. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 4.6 No prediction in the EIA Report for noise monitoring results at M4(A) and M5(A).

## 5. LANDSCAPE AND VISUAL MONITORING

5.1 In accordance with EM&A Manual (EIA Register No. AEIAR-130/2009), Landscape and Visual Monitoring shall be carried out during the construction phase of the Project. Regular impact monitoring will be conducted at least once per week.

#### **Results and Observations**

- 5.2 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 5.3 Site inspections were conducted on 7, 14, 21 and 28 December 2023 in the reporting month.
- 5.4 The summary of site audits is attached in Table 5.1.

Inspection Date	Key Observations	Recommendations / Actions	Close- out Date / Status
7 Dec 2023	NA	NA	NA
14 Dec 2023	NA	NA	NA
21 Dec 2023	NA	NA	NA
29 Dec 2023	NA	NA	NA

Table 5.1 Summary of observations of Landscape and Visual impact during the reporting month

- 5.5 No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 5.6 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in Appendix M shall be performed.

## 6. ENVIRONMENTAL SITE INSPECTION AND AUDIT

#### **Site Inspection**

6.1 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.

~1

- 6.2 Site inspections were conducted 7, 14, 21 and 28 December 2023 in the reporting month.
- 6.3 The summaries of site audits are attached in Table 6.1.

Inspectio n Date	Key Observations	Recommendations / Actions	Close-out Date / Status
7 Dec 2023	Observation: The NRMM label for the generator was missing. Please ensure the label is properly demonstrated.	Action Taken: The NRMM label has been display for the generator.	Closed out on 14 Dec 2023
14 Dec 2023	Observation: Construction waste shall be removed timely.	Action Taken: Construction waste has been removed.	Closed out on 21 Dec 2023

Table 6.1 Summary of site inspections observations during the reporting month

Inspectio n Date	Key Observations	Recommendations / Actions	Close-out Date / Status
14 Dec 2023	Observation: Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.	Action taken:           Stockpiles has been removed.	Closed out on 21 Dec 2023
21 Dec 2023	Observation: The NRMM label for the excavator is missing. Please ensure the label is properly demonstrated.	Action taken: The NRMM label has been properly demonstrated.	Closed out on 29 Dec 2023
29 Dec 2023	Observation: Oil mark has been found. Please ensure the oil mark is properly removed.	Action taken: Oil mark has been removed.	Closed out on 4 Jan 2023

#### **Status of Waste Management**

6.4 The amount of wastes generated by the major site activities of the work contracts within the Project during the reporting month is shown in Appendix N.

6.5 The Contractor was registered as a chemical waste producer for the Project. The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

#### **Status of Environmental Licenses, Notification and Permits**

6.6 A summary of the relevant permits, licenses and/or notifications on environmental protection for the Project is shown in Table 6.2.

Environmental Licenses, Notifications and Permits	Ref. No.	Valid Form	Valid Till
Environmental Permit under EIAO	EP-337/2009	23 Apr 2009	N/A
Construction Dust Notification under APCO	HA/1826/1	29 Dec 2020	N/A
Waste Disposal Billing Account	7038086	21 Aug 2020	N/A
Registration as a Chemical Waste Producer	5111-286-B2596-01	15 Sep 2020	N/A
Wastewater Discharge Lizense under	WT00037618-2021	29 Mar 2021	31 Mar 2026
Wastewater Discharge License under WPCO	WT00037370-2021	29 Mar 2021	51 War 2020
WICO	WT00038562-2021	15 Jul 2021	31 Jul 2026
Construction Noise Permit	GW-RE1585-23	11 Dec 2023	10 Jun 2024

Table 6.2 Summary of Environmental Licenses, Notifications and Permits

#### **Implementation Status of Environmental Mitigation Measures**

6.7 The Contractor has implemented environmental mitigation measures as stated in the EIA report, the EP and the EM&A Manual. The implementation status of the mitigation measures is summarized in Appendix O.

#### **Environmental Complaint and Non-compliance**

6.8 No complaint was received in the reporting month. Summary of complaints in the reporting month is tabulated in Table 6.3.

the of summary of complaints in the hepotiting monthly				
Date of complaint received	Date of compliant	Description of complaint	Recommendations / Action taken	Close-out date / Status
No complaint was received in the reporting month.	NA	NA	NA	NA

Table 6.3 Summary of complaints in the Reporting Month

6.9 Complaint log is shown in Appendix P.

#### Notifications of summons and successful prosecutions

6.10 No notification of summons and successful prosecutions was received in the reporting month. Summary of summons and successful prosecutions in the reporting month is tabulated in Table 6.4.

Date of receiving notification of summons or prosecutions	Date of event	Description of event	Action taken	Close-out date / Status
No notification of summons and successful prosecutions were received in	NA	NA	NA	NA
the reporting month.				

Table 6.4 Summary of summons and successful prosecutions in the Reporting Month

6.11 The summaries of cumulative environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in Appendix P.

## 7. FUTURE KEY ISSUES

#### **Construction Programme in the coming month**

7.1 The major construction activities and potential impacts in the next reporting month are as follows:

<i>Tuble 7.1 Summary of Juture key issues and potential impact in the coming month</i>				
Future key issues in the coming month	Potential impact			
Erect falsework and working platform for Decking of Elevated Walkway LW-02	Noise and Air Quality			
Dismantling Falsework and Portal Frame at LW-02	Noise and Air Quality			
RC Construction for Decking of Elevated Walkway LW-02	Noise and Air Quality			
RC Construction of LW02 Lift and Staircase	Noise and Air Quality			
Installation of post tensioning anchorage system at LW-02	Noise and Air Quality			
Construction of Permanent Shaft Structure of SB-01	Noise and Air Quality			
Road and drain construction works of Road L16, Commercial Street and Road D1	Noise and Air Quality			
Construction Works for DCS 2A5B and 2A10	Noise and Air Quality			
Renovation works for Subway KS10 Lift and Staircase	Noise and Air Quality			
Road and Drain Construction works at Olympic Avenue	Noise and Air Quality			
Construction of Retaining Wall Type 1 for S14	Noise and Air Quality			
Construction of Pile Cap for S14	Noise and Air Quality			
Construction works for SMH404 and SMH505	Noise and Air Quality			

Table 7.1 Summary of future key issues and potential impact in the coming month

7.2 The mitigation measures for environmental impact including Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual shall be implemented:

- Sufficient watering of the works site with the active dust emitting activities,
- Limitation of the speed for vehicles on unpaved site roads,
- Properly cover the stockpiles,
- Good maintenance to the plant and equipment,
- Use of quieter plant and Quality Powered Mechanical Equipment (QPME),
- Provide movable noise barriers,
- Appropriate desilting/ sedimentation devices provided on site for treatment before discharge,
- Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall,
- Onsite waste sorting and implementation of trip ticket system,
- Good management and control on construction waste reduction,
- Erection of decorative screen hoarding,
- Strictly following the Environmental Permits and Licenses, and
- Provide sufficient mitigation measures as recommended in Approved EIA Report.

7.3 The recommended environmental measures proposed in the EM&A Manual (EIA Register No. AEIAR-130/2009) shall be effectively implemented to minimize the potential environmental impacts. The Contractor is reminded to implement the mitigation measures properly.

#### **Environmental Site Inspection and Monitoring Schedule for next month**

7.4 The tentative schedule for weekly site inspection and air quality and noise monitoring in the next month is provided in Appendix C.

## 8. CONCLUSIONS

- 8.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.
- 8.2 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 8.3 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 8.4 Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 8.5 No complaint was received in the reporting month.
- 8.6 No notification of summons and successful prosecutions was received in the reporting month.
- 8.7 Based on the site inspection and audits, impact air quality and noise monitoring results, it was considered that the mitigation measures were effective to control the potential environmental impacts from the Project during the reporting period.

# Figure

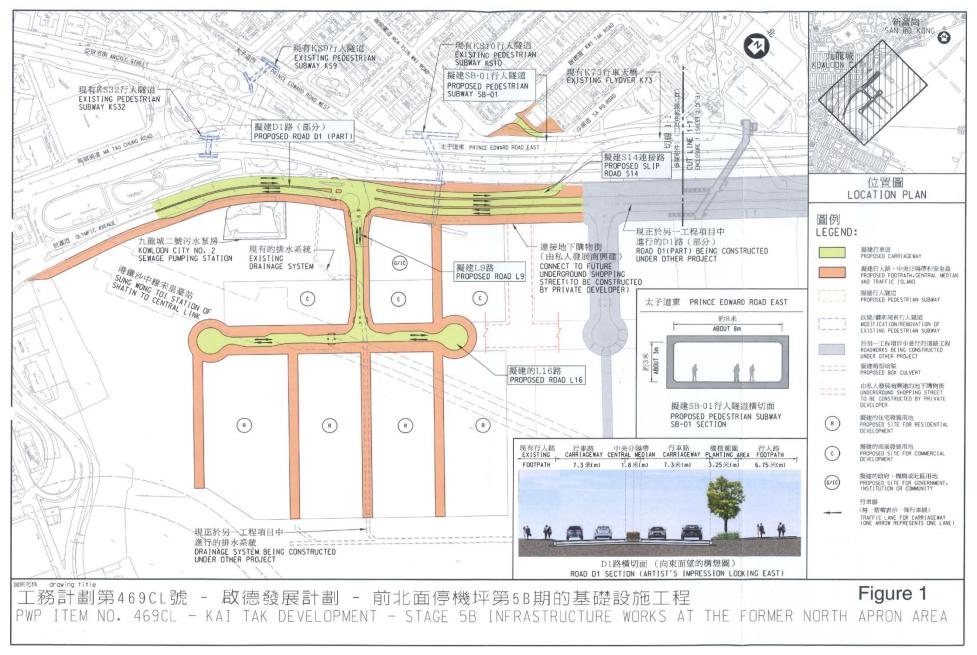


Figure 1 – Proposed works of Contract No. ED/2018/05

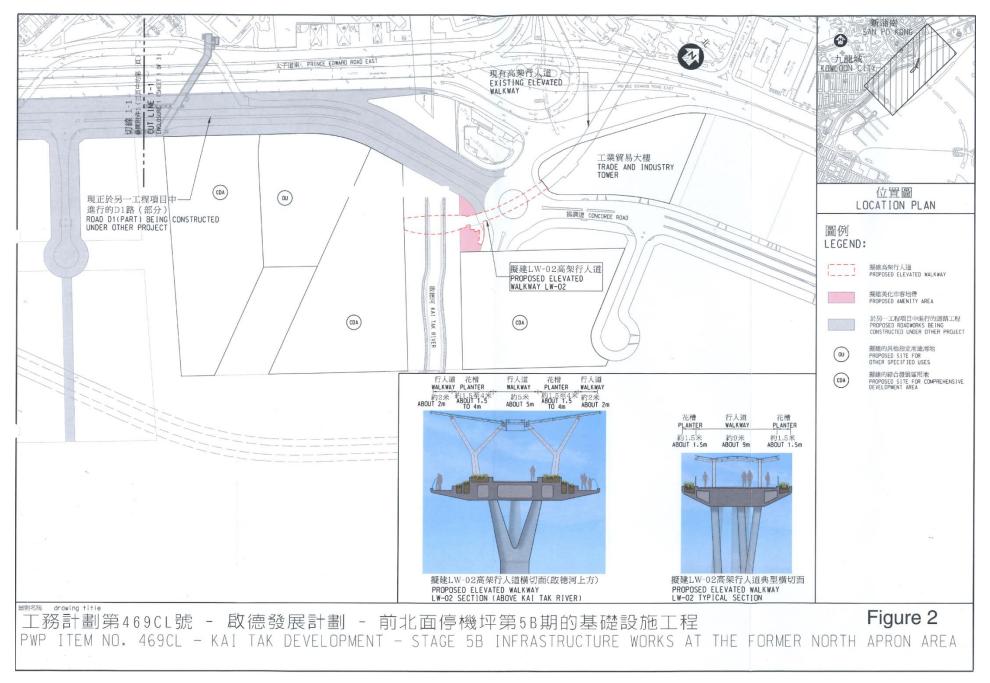


Figure 2 – Proposed works of Contract No. ED/2018/05

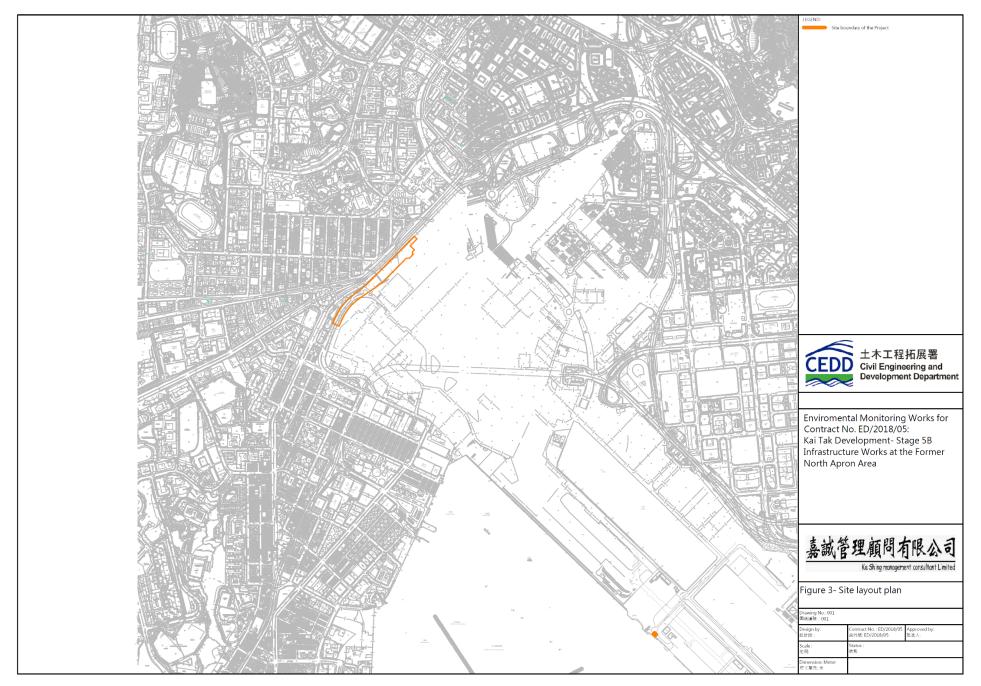


Figure 3 – D1 Road Site Layout Plan

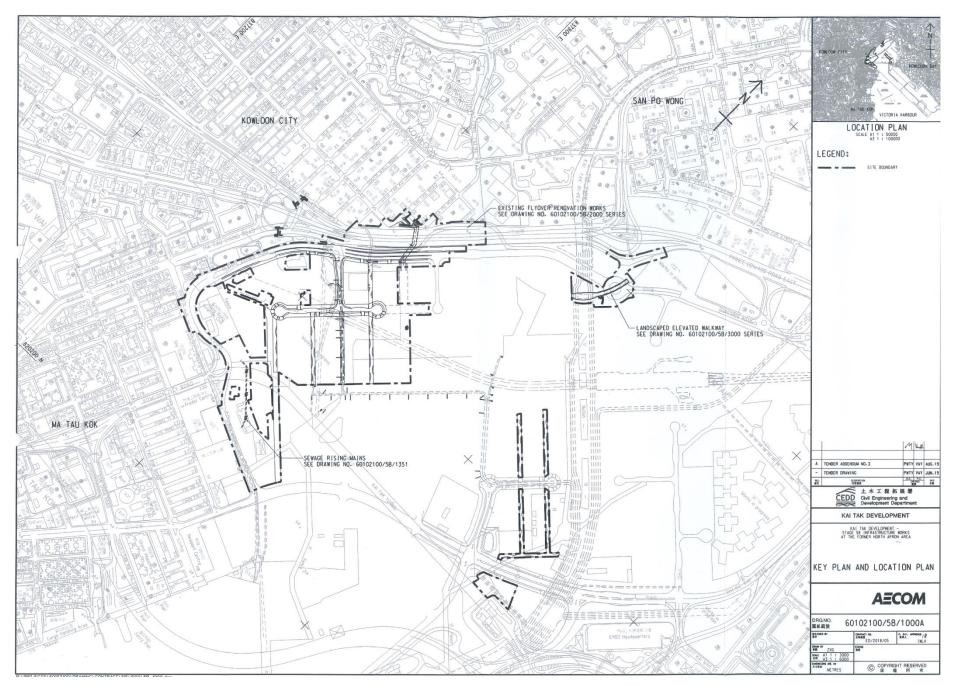


Figure 4 – Site Layout Plan

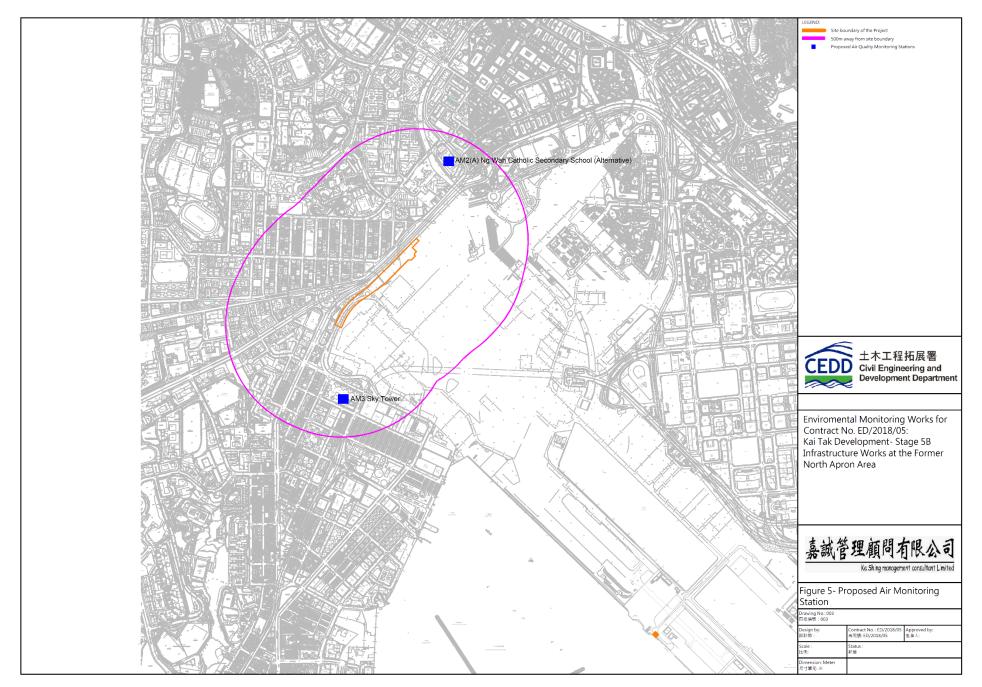


Figure 5 – Air Quality Monitoring Stations

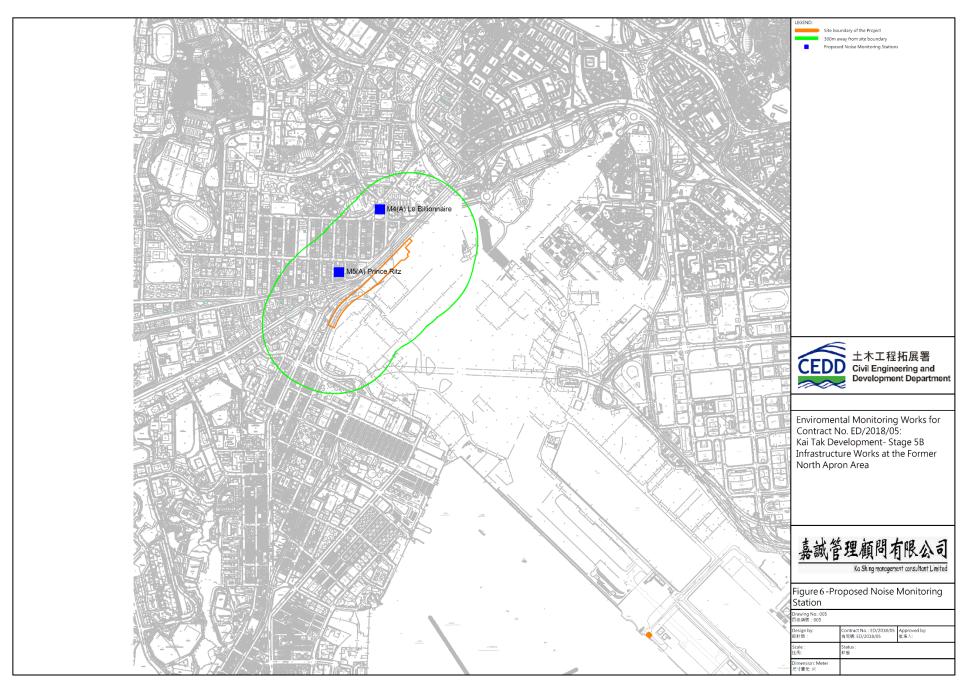
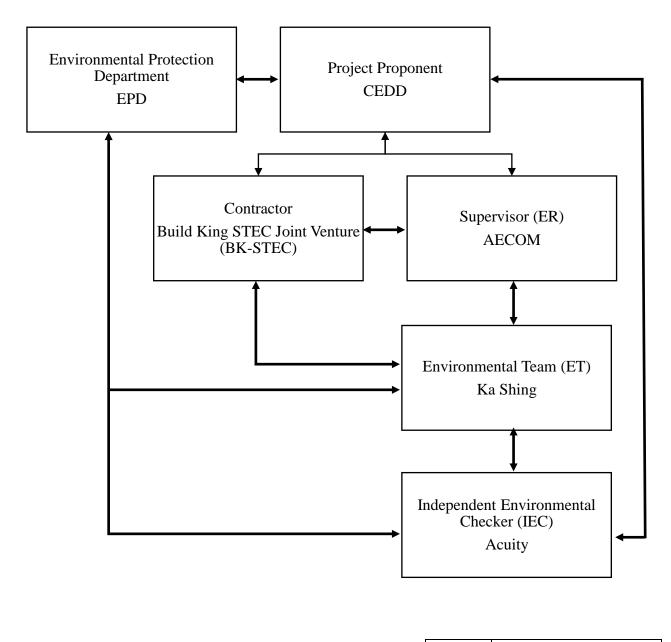
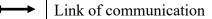


Figure 6 – Noise Monitoring Stations

**Appendix A – Organization Chart of EM&A Team** 





# **Appendix B – Construction Programme**

for Rev-40		4760	22.11	Finis		0	Float	Calendar D	JAS	OND	JFMA	MJJ	ASON	DJFN	AMJ	JASON	DJFM	AMJJ	ASO	DJF	MAM	JJAS	SOND	JFMA	AMJJ	ASON	JFM	A
Y DATES		2170	22-Jul-20		26 22-Jul-2 26 22-Jul-2	0 30-Jun-		-																	1	1		
TD.KD.1000	Contract date	0						4	ļ						1							1	1			1	1 1	1
TD.KD.1010	Contract starting date	0	22-Jul-20	×	22-Jul-20		0	2						1												1		1
TD.KD.1020	Contract completion date	0	31-Jul-20	30-Jun-	31-Jul-20	0 30-Jun-3	0 26 0	2	1						÷												4	1
CESS DATES		1429	31-Jul-20					2																			1 1	1
TD.KD.1030	Parts 1, 1A, 1B, 2, 3, 4, 7, 8 and 9	0	31-Jul-20		31-Jul-20	and the second		-														·						I
TD.KD.1040	Part 5	0	30-Jun-2		30-Jun-2		0	2	1 +																		1	
TD.KD.1050	Part 6	0	29-Jun-2		29-Jun-2		0	2							÷									L				ļ
TD.KD.1060	Part 6A	0	30-Jun-2		30-Jun-2		0	2														2					1	
TD.KD.1070	Works Areas WA1, WA2, WA3, WA4, WA5, WA6 and WA7	0	31-Jul-20		31-Jul-20		0	2									-+					ļ.ļ					l	
TD.KD.1080	Part 10 and Works Area WA4A	0	29-Jan-2		29-Jan-2		0	2			_	11					1											
TD.KD.1090	Works Area WA8	0	31-Jul-22	2	31-Jul-22		0	2							+		·++						· · · · · ·	<b>↓-    </b> -		····	·	į
NTRACT SECTIONA	AL COMPLETION DATES	1826	30-Jun-2	1 30-Jun-	26 30-Jun-2	1 30-Jun-2	26 0	2						+							_							1
TD.KD.1100	Section 1:Compl of all works within Parts 1 and 8 and Elevated Landscaped Walkway LW-02	0		26-Sep-	23	26-Sep-2	23 0	2						·····	÷		-++	·····	-									ļ
TD.KD.1110	Section 2: Compl of all works within Parts 1B, 6A and 7 and remaining works of all Parts	0		31-Dec-	24	30-Jun-2		2									1 1	1	5					7		1	1 1	1
TD.KD.1120	Section 3:Compl of all works within Parts 1A and 5 and drainage and sewage works within Part 6	0		27-Dec-	23	27-Dec-2	23 0	2		-				· • · · · •	1		++										+	
TD.KD.1130	Section 4:Compl of all UU and services within Part 4	0		30-Jun-2	21	30-Jun-2	21 0	2				H+								5							1 1	1
TD.KD.1140	Section 5: Compl of all UU and services within Part 3, rising mains diversion & demolition of ext. structures	0		17-Dec-3	21	17-Dec-2	21 0	2		-					1								+					
TD.KD.1150	Section 6:Compl of all works within Part 2 and Part 10	0		29-Mar-	22	29-Mar-2	22 0	2						1	¥										1		1	1
TD.KD.1160	Section 7:Compl of all works within Part 3 (Subj to excision within 416days from starting date)	0		25-Feb-	24	25-Feb-2	24 0	2		111												1-1	+				++	f
TD.KD.1170	Section 8:Compl of all Box Culvert B1 within Parts 1 and 3 and diversion and abandon works	0		29-Jul-2		29-Jul-2	1 0	2				-													1		1	í.
TD.KD.1180	Section 9:Compl of DCS works within Parts 1 and 1A (Subj to excision within 239d ays from starting date)	0		26-Sep-3		26-Sep-2		2									1		-			11	1		••••••		·+	[
TD.KD.1190	Section 10:Compl of establ work for all landscape works(except Sections 14, 15 and 16)	0		26-Dec-3		26-Dec-2	24 0	2											П				-		i		1 1	1
TD.KD.1200	Section 11:Compl of all works within Part 4 (Subj to excision within 244days from starting date)	0	_	25-Feb-		25-Feb-2		2									1			-7			1				††	[
TD.KD.1210 TD.KD.1220	Section 12:Compl of all SB-01 within Part 1A	0		25-Sep-		25-Sep-2		2														-	7				1	ł
TD.KD.1220	Section 13:Compl of all works within Part 6 Section 14:Compl of estab work for landscape works within Part 2 (Subite purples within 14Secure for a table data)	0		31-Dec-		30-Jun-2		2						IT			1 1						-	7			1	
TD.KD.1230	Section 14:Compl of estab work for landscape works within Part 3 (Subj to excision within 416days from starting date)	0		24-Feb-		24-Feb-2		2			_						1							-7		1		1
TD.KD.1240	Section 15:Compl of estab work for landscape works within Part 4 (Subj to excision within 244days from starting date) Section 16:Compl of establ work for landscape works within Part 6	0		24-Feb-2		24-Feb-2		2																-7			T	
TD.KD.1260	Section 16:Compl of establ work for landscape works within Part 6 Section 17:Compl of establ work for landscape works under Section 1	0	-	30-Jun-2		30-Jun-2		2	4																		1	1
TOTAL DATA DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNE	IS. PERMIT APP LICATION & APPROVAL	0	22 1 1 22	25-Sep-2		25-Sep-2		2														-					1	1
TD.KD.1270		240	22-Jul-20				and the second second	2																				(
TD.KD.1270	Prepare/submission of temporary works design Consultation/approval of temporary works design	30	22-Jul-20				200 A	2								1	1 1	1	T				T				1	1
TD.KD.1280		60	21-Aug-20		24	102 JAN 0498/1939		2	-	Inim		mannan	-	-	in the		J.										1	1
TD.KD.1290	Prepare/submit Temp Geolechnical&Structural Works to HyD/TD/CEDD/GEO and others (incl SB-01 by RTBM, etc.)	30	22-Jul-20	-		21 0.15-5-0300		2									1	1									1	1
TD.KD.1310	Consult/approve Temp Gedechnical&Structural Works by HyD/TD/CEDD/GEO and others (incl SB-01 by RTBM, etc.) Prepare/submission of Temporary Drainage and Sewerage Management Plan to DSD/CEDD and others	120	21-Aug-20					2																				Ĺ
TD.KD.1310	Prepare/submission or temporary brainage and Sewerage Management Plan bo DSD/CEDD and others Consultation/approval of Temporary Drainage and Sewerage Management Plan by DSD/CEDD and others	30	22-Jul-20					2																		1	[ The second sec	
TD.KD.1330	Application/approval of CNP for night works by relevant authorities and liaison with projects nearby	60	21-Aug-20					2					1.				1 1										1	ŧ.
TD.KD.1340	Application/approval of permits or other statutory submissions by relevant authorities and masch with projects relativy Application/approval of permits or other statutory submissions by relevant authorities (i.e. CEDD,HyD,WSD,XPMS & EPD)	90	19-Dec-20					2		4																	T	1
MPORARY TRAFFIC		180 240	31-Jul-20 31-Jul-20	-	a loss of the loss			2					<b>.</b>				l										l	ĺ
TD.KD.1370	Prepare/Submit/Consult/Approval of TTA for loading/unloading at Sa Po Road and Concorde Road roundabout							4																				1
TD.KD.1380	Prepare/Submit/Consult/Approval of TTA for loading/unloading at Sa Po Read and Concorde Road roundabout Prepare/Submit/Consult/Approval of TTA for working platform erection cossing Concorde Road roundabout	60	31-Jul-20					2	- retty	_																		1
TD.KD.1390	Prepare/Submit/Consult/Approval of TTA for GV/diversion/preliminary works at PERE and Sa Po Road	90	29-Sep-20					2		- R																1	T	1
TD.KD.1400	Prepare/Submit/Consult/Approval of TTA for 2-staged Sa Po Road and PERE W/B diversion	90	31-Jul-20					2						4			1											1
TD.KD.1410	Prepare/Submit/Consult/Approval of TTA for road and drahage works along Olympic Avenue	120			20 03-Dec-25			2										1							1	1	T T	ſ
TD.KD.2180	1st TMLG Meeting	0	20-1409-20	18-Sep-2	21 03-Mar-26	6 30-Jun-2 18-Sep-2		2	<b>-</b>	f			<b> </b> − <b> </b> −− <b> </b> −		÷		4	·····				4						í
TD.KD.2220	2nd TMLG Meeting	0		19-Nov-2		18-Sep-2 19-Nov-2		2			1					1												í.
TD.KD.2230	3rd TMLG Meeting	0		15-Jan-2	28	19-100-2 14-Jan-2		2					<del> </del> <del> </del>	·	<u>↓</u>						-		4.1.1				. <b> </b>	
TD.KD.2240	4th TMLG Meeting	0		23-Mar-2	256	23-Mar-2		2										1										1
<b>INSTRUCTION HEAL</b>	TH AND SAFETY MANAGEMENT	1801	22-Jui-20		5 23-Jul-20	and the cost of the	the second second second	2	<b></b>						· · · · · · · ·						-							į
D.KD.1420	Prepare/submit of Draft Safety Plan	13	22-Jul-20		2	04-Aug-2		2									1 1										ľ	6
D.KD.1430	Prepare/submit Safety Plan	21			20 05-Aug-20			2						·				·····			-		44				l	į
D.KD.1440	Conduct meeting to discuss Draft Safety Plan	0		03-Aug-2		0 23-Aug-2 03-Aug-2		2	<b>F</b>																1			1
TD.KD.1450	Prepare/submit Site Traffic Safety Management Plan	41	22-Jul-20		23-Jul-20			2									++						++				l	
D.KD.1460	Prepare/submit Construction Health and Safety Plan	29	22-Jul-20			20-Aug-2		2														A 17			1	1		
D.KD.1470	1st SSMC Meeting	1	26-Aug-20		26-Aug-20			2	Fr B					+++-			·						++-+-+	· · · · · ·			. <b> </b>	
D.KD.1480	2nd SSMC Meeting	1			0 23-Sep-20		and the second s	2																	1	1		í.
D.KD.1490	3rd SSMC Meeting	1	29-Oct-20					2	1								·+						++				Įį.	į.
D.KD.1500	4th SSMC Meeting	1	26-Nov-20		0 26-Nov-20		1	2									1								1	1		
D.KD.1510	5th SSMC Meeting	1	31-Dec-20	31-Dec-2	0 31-Dec-20	0 31-Dec-2	0 0	2		1-1-1				1			++	·····					++			···	·	
D.KD.1520	6th SSMC Meeting	1	28-Jan-21	28-Jan-2	1 28-Jan-21	28-Jan-2	1 0	2									1									1	1 1	1
D.KD.1530	7th SSMC Meeting	1	25-Feb-21	25-Feb-2	1 25-Feb-21	1 25-Feb-2		2									††-	·····					++-+-				·	
D.KD.1540	8th SSMC Meeting	1	24-Mar-21	24-Mar-2	1 24-Mar-21	1 24-Mar-2	1 0	2			1						1									l.	1	1
D.KD.1550	9th SSMC Meeting	1	29-Apr-21	29-Apr-2	1 29-Apr-21	29-Apr-2	0	2									††-				1						+	
D.KD.1560	10th SSMC Meeting	1	27-May-21	27-May-2	1 27-May-21	1 27-May-2	1 0	2									1											
D.KD.1570	11th SSMC Meeting	1	24-Jun-21	24-Jun-2	1 24-Jun-21	24-Jun-2	0	2									1 1				-					·		
D.KD.1580	12th SSMC Meeting	1	29-Jul-21	29-Jul-21	and the second second second		0	2																			1	,
D.KD.1590	13th SSMC Meeting	1	26-Aug-21					2									1		1-1-1-1	***	-	1	1-1-1				·	
D.KD.1600 D.KD.1610	14th SSMC Meeting	1	30-Sep-21			30-Sep-2	1 0	2																				
D.KD.1610	15th SSMC Meeting	1	28-Oct-21				C	2					1			1	T T					T					(t-	
D.KD.1620 D.KD.1630	16th SSMC Meeting	1			1 25-Nov-21			2					1														[ ]	
D.KD.1630	17th SSMC Meeting	1	30-Dec-21		1 30-Dec-21			2								1	T				1		111		1	1	1	
D.KD. 1640	18th SSMC Meeting 19th SSMC Meeting	1	27-Jan-22		2 27-Jan-22		2 J. 198	2																			( F	
D.KD.1660	20th SSMC Meeting	1			2 24-Feb-22		2	2								1	T	1		1						1		
D.KD.1670	21st SSMC Meeting	1			2 31-Mar-22			2									1										( I	
D.KD.1680	21st SSMC Meeting 22nd SSMC Meeting	1	28-Apr-22		2 28-Apr-22			2								1	1							1	1	1	T	1000
D.KD.1690	23rd SSMC Weeting	1			2 26-May-22			2		-							<u> </u>										( I	
	rous cound meeting	1	30-Jun-22	30-Jun-22	2 30-Jun-22	30-Jun-22	0	2			22.2															1	1	
			-																	_								
V Milestone	Planned Work					R	ev. 40											Da	ite		Revis	sion		Che	ecked		Appro	ov
V Critical Milestor	ne Summary ED/2018/05 Kai	Tak D	ovolor	mont	Store			10/-	ale -	4.41	E.						= [	30-Nov	-2023	Work	s Proo	Immo	e HI			RL		-
		Idk D	evelop	ment -					rks a	at the	Forr	ner N	orth A	Apron	Area	l I				-				-				-
Critical Remain	ning Work						ROGRA											29-Dec	-23	vvork	s Prog	gramme	e  Hl	_		RL		
ontiour reentuin						TUNO I	1100101																					_

Activity ID	Activity Name	Dur (d)	Early Start		Late Start		al Calendar				2021			22	2023			2024		2025	2026	
KTD.KD.1700	24th SSMC Meeting			Finish		Floa	1971 - E. H.	JAS	ONDJ	FMAM	JJAS	ONDJ	FMAMJ	JASONDJFN	AMJJASO	NDJ	JFMAM	JJAS	NDJFMA	MJJAS	ONDJFMAMJ	JJAS
KTD.KD.1710	25th SSMC Meeting	1		28-Jul-22		and the second																
KTD.KD.1720	26th SSMC Meeting	1		25-Aug-22		25-Aug-22 0								1								1
KTD.KD.1730	27th SSMC Meeting	1		29-Sep-22																		
KTD.KD.1740	28th SSMC Meeting	1	27-Oct-22		27-Oct-22									1						1 1		1
KTD.KD.1750	29th SSMC Meeting	1		24-Nov-22			2	<b>.</b>														
KTD.KD.1760	30th SSMC Meeting	1		29-Dec-22			2															
KTD.KD.1770	31st SSMC Meeting	1		26-Jan-23			2	<b>.</b>						1								
KTD.KD.1780	32nd SSMC Meeting	1		23-Feb-23 30-Mar-23			2															
KTD.KD.1790	33rd SSMC Meeting	1					2	<b>.</b>							[							1
KTD.KD.1800	34th SSMC Meeting	1		27-Apr-23 25-May-23			2															
KTD.KD.1810	35th SSMC Meeting	1		29-Jun-23			2	<b></b>														
KTD.KD.1820	36th SSMC Meeting	1	27-Jul-23	27-Jul-23		29-Jun-23 0 27-Jul-23 0	2															
KTD.KD.1830	37th SSMC Meeting	1		31-Aug-23				<b></b>				·			·							
KTD.KD.1840	38th SSMC Meeting	1		28-Sep-23			2										l l			1 1		
KTD.KD.1850	39th SSMC Meeting	1		26-Oct-23			2	<b></b>														
KTD.KD.1860	40th SSMC Meeting	1		30-Nov-23		Concernation of the	2															
KTD.KD.1870	41st SSMC Meeting	1	and the second s	28-Dec-23	1000-00-00-00-00-00-00-00-00-00-00-00-00	and the second sec	2	<b></b>				· · · · · · · · · · · · · · · · · · ·										
KTD.KD.1880	42nd SSMC Meeting	1			20000000000	25-Jan-24 0																
KTD.KD.1890	43rd SSMC Meeting	1		29-Feb-24		and the second sec	2					· · · · · · · · · · · · · · · · · · ·			·····			1				
KTD.KD.1900	44th SSMC Meeting	1		28-Mar-24		1-534/12 - Act 10 10 10 10 10 10	2															
KTD.KD.1910	45th SSMC Meeting	1					2							·····	·····			ļ.				
KTD.KD.1920	46th SSMC Meeting	1					2															
KTD.KD.1930	47th SSMC Meeting	1					2					····			·····			4				
KTD.KD.1940	48th SSMC Meeting	1	25-Jul-24			25-Jul-24 0	2															
KTD.KD.1950	49th SSMC Meeting	1		29-Aug-24		29-Aug-24 0	2	<b></b>					╍╈╍┿╍┝╍			4						
KTD.KD.1960	50th SSMC Meeting	1		26-Sep-24		26-Sep-24 0	2															
KTD.KD.1970	51st SSMC Meeting	1		31-Oct-24			2	<b>   - +  </b>										4				
KTD.KD.1980	52nd SSMC Meeting	1					2															
KTD.KD.1990	53rd SSMC Meeting	1	26-Dec-24	26-Dec-24		26-Dec-24 0	2	<b></b>							·····			H				ļ
KTD.KD.2000	54th SSMC Meeting	1		30-Jan-25			2															
KTD.KD.2010	55th SSMC Meeting	1		27-Feb-25			2	<b></b>					+++++++			1						Į
KTD.KD.2020	56th SSMC Meeting	1		27-Mar-25			2															
KTD.KD.2030	57th SSMC Meeting	1		24-Apr-25			2	<b></b> }		· · · · · · · · · · · · · · · · · · ·		·	·····		·····	<b>.</b>						
KTD.KD.2040	58th SSMC Meeting	1		29-May-25		the second se	2															
KTD.KD.2050	59th SSMC Meeting	1		26-Jun-25			2						·····			<b>.</b>						
BIM RELATED DELIVERAB	LES	1615	31-Jul-20		01-Aug-20																	
KTD.KD.2060	Prepare/submit BIM Execution Plan	29	31-Jul-20		01-Aug-20																	
KTD.KD.2070	Prepare/submit Combined Services Drawings and CBWD generated from BIM	44	31-Jul-20	12-Sep-20		29-Aug-20 1 13-Sep-20 1																
KTD.KD.2080	Prepare/submit proposal of asset information requirement	364	31-Jul-20				2										ļļ					
KTD.KD.2090	Prepare/submit Asset Data Delive rables for Section 1	60				30-Jun-26 1008																
KTD.KD.2100	Prepare/submit Asset Date Delive rables for Section 2	60		31-Dec-24	and the second se	242 1 2 2 20 0 0 1 2 1 C 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2										·····					
KTD.KD.2110	Prepare/submit Asset Date Delive rables for Section 3	60		27-Dec-23			2															
KTD.KD.2120	Prepare/submit Asset Date Delive rables for Section 4	60		30-Jun-21		30-Jun-26 1826		iii					····				1					
KTD.KD.2130	Prepare/submit Asset Date Delive rables for Section 5	60	The second se	17-Dec-21			2															
KTD.KD.2140	Prepare/submit Asset Date Deliverables for Section 6	60		29-Mar-22		30-Jun-26 1554		••••		·	·		·		·····							
KTD.KD.2150	Prepare/submit Asset Date Delive rables for Section 7	60		25-Feb-24		30-Jun-26 856	2															
KTD.KD.2160	Prepare/submit Asset Date Delive rables for Section 8	60	31-May-21			30-Jun-26 1797							·····									
KTD.KD.2170	Prepare/submit Asset Date Delive rables for Section 9	60	29-Jul-23	320330600000		30-Jun-26 1008																
KTD.KD.2190	Prepare/submit Asset Date Delive rables for Section 11	60		25-Feb-24			2				++											
KTD.KD.2200	Prepare/submit Asset Date Deliverables for Section 12	60		25-Sep-24			2															
KTD.KD.2210	Prepare/submit Asset Date Deliverables for Section 13	60		31-Dec-24	and the second se	and the second design of the s					++		++									
VALUE-ENGINEERING SHC	EME DROP-OFF SCHEDULE	832	and the second se	09-Nov-22	and the second se	09-Nov-22 0	2															
KTD.VE.1000	Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01	488	31-Jul-20	ALC: NO. S. L.	31-Jul-20	A STATE OF STREET, STR	2										i					
KTD.VE.1010	Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01	488		30-Nov-21		30-Nov-21 0	2	1 11														
KTD.VE.1020	Review/prepare/submit VE scheme for piling arrangement for new pier of existing Bridge K73	671		01-Jun-22		01-Jun-22 0	2				· · · · · · · · · ·					1		<b> </b> - <b>   </b>				
KTD.VE.1030	Review/prepare/submit VE scheme for piling arrangement for abutment of Slip Road S14	832	31-Jul-20	09-Nov-22		09-Nov-22 0	2															
KTD.VE.1050	Review/prepare/submit VE scheme for piling arrangement for lift shaft and staircase of LW-02	631		22-Apr-22		22-Apr-22 0	2				· [ · ] · · · · · ]		· ····································			1		ļ				
CIVIL AND STRUCTURAL W		1321	22-Jul-20	and the second se		30-Jun-26 441	4								1 1							
GENERAL AND PRELIMIN		1313			and the second second	and the second second																
KTD.GW.1000				31-Dec-24		and the second second second second					1 1											
KTD.GW.1010	General and preliminary works (inclu site formation, site set-up, access, temp drain. sys, ground investigation and etc) Construction, maintenance and removal of ICA, EVA, Crowd Dispersal Route and other temporary access	1200	31-Jul-20		15-Jun-21		1				i i						and the second se					
KTD.GW.1020		1313		31-Dec-24	1.000 - 20 - 07 - 04	ACATEMPAL SPACE AND A COMPA	1						1 1									
KTD.GW.1020	Prepare/submit site arrangement plan (inclu hoarding, project sign board and security arrangement) Design/submit/approval site layout plan and Contractor's site accommodation using MiC method	13	and the second sec	12-Aug-20		7111 W 1118 W 1118	2	1			1.											
KTD.GW.1040	Construct foundation and erect Contractor's site accommodation using MIC method	44		25-Sep-20		0.1072.0.*	2															
KTD.GW.1050	Tree Survey	76		29-Dec-20		A STATE OF A	1		-		1											
KTD.GW.1055	Initial tree survey report and tree felling application	27		26-Aug-20			2													T		
KTD.GW.1056	Obtain tree felling permit from relevant authorities	120		24-Dec-20	and the second	09-Mar-21 75	2		· ·		1.									i		
KTD.GW.1060	Tree felling works at Sa Po Road to facilitate construction of road diversion (Stage 1, 9 nos.)	77	25-Dec-20			25-May-21 75	2															
KTD.GW.1061	Tree felling works at Sa Po Road to facilitate existing utilities diversion works (5 nos.)	12				08-Jun-21 58	1			9	<b>.</b>											
KTD.GW.1065	Tree felling works at Kai Tak Area	1	2.000000000000			17-Jun-21 0	1															
KTD.GW.1070	Protection to retained trees and tree transplating works	60		11-Mar-21			1		· · · · · · · · · · · · · · · · · · ·		<b>.</b>		<b>.</b>									
CONSTRUCTION OF PED		234	· Charles and the second	12-Jun-21	and the second s	and the second se	1		-													
		1242		25-Sep-24							1.											
	ISSIONS FOR PEDESTRIAN SUBWAY SB-01	330		01-Dec-21			2		-		1 1											
KTD.SB.SUBM.1000	Prepare ELS Design for Launching Shaft @Kai Tak Area	60	06-Jan-21	06-Mar-21	30-May-21	28-Jul-21 144	2															
KTD.SB.SUBM.1010	Review/comment ELS Design for Launching Shaft @Kai Tak Area and obtain ICE certificate	30	Contraction of the second second	05-Apr-21		27-Aug-21 144	2		L L													
KTD.SB.SUBM.1020	Consult/obtain approval of ELS Design for Launching Shaft @Kai Tak Area by AECOM	45		20-May-21	the second se	11-Oct-21 144	2															
KTD.SB.SUBM.1030	Prepare ELS Design for Retreiving Shaft @Sa Po Road	60				21-Oct-21 176	2						1111									
KTD.SB.SUBM.1040 KTD.SB.SUBM.1050	Review/comment ELS Design for Retreiving Shaft @Sa Po Road and obtain ICE certificate	30		28-May-21		20-Nov-21 176	2															
KTD.05.00BWI.1000	Consull/obtain approval of ELS Design for Retreiving Shaft @Sa Po Road by AECOM	187	29-May-21	01-Dec-21	21-Nov-21	26-May-22 176	2			144												
▼ ▼ Milestone	Planned Wet														Det	T		lalar.				
	Planned Work					Rev. 40									Date		Revi		Cheo	cked	Approved	
Critical Milestone	Summary ED/2018/05 Kai	Tak De	evelopn	nent - S	stage 5	B Infrastrue	cture We	orks a	t the l	Forme	r Nor	th Apr	on Ares	-	30-Nov-2023	3 Wo	orks Prog	gramme	HL		RL	
Critical Remaining	Nork		- Pro-							Sinc		an Apr			29-Dec-23	Wo	orks Pror	gramme	HL		RL	
					WOR	RKS PROGI	KAMME											Julianti				
						(Page 2 of 1	0)															
						1 3	1															

	Activity Name	Dur (d)	Early Star	ft Early Finish	Late Start	Late Finish	Total Calend Float	JASO	ND JEMA	2021 M J J A	SOND		2022 J J A S O N D	JEMAM
KTD.SB.SUBM.1060	Prepare/submit GEO Submission for trenchless tunnel by RTBM to GEO/CEDD	90	10-Jan-21	09-Apr-21	21-Sep-21	19-Dec-21	254 2					1. III . III		
KTD.SB.SUBM.1070	Consult/obtain approval of GEO Submission for trenchless tunnel by RTBM by GEO/CEDD	203	10-Apr-21	29-Oct-21	20-Dec-21	10-Jul-22	254 2		5				1	1
KTD.SB.SUBM.1080	Prepare/submit HyD B&S Submission for precast lining and re-alignment to HyD B&S	60	09-Feb-21	09-Apr-21	09-Jul-21	06-Sep-21	150 2							
KTD.SB.SUBM.1090	Consult/obtain AIP of HyD B&S Submission for precast lining and re-alignment by HyD B&S	60	10-Apr-21	08-Jun-21	07-Sep-21	05-Nov-21	150 2		4					1
KTD.SB.SUBM.1100	Consult/obtain DDA of HyD B&S Submission for precast lining and re-align ment by HyD B&S	169	09-Jun-21		06-Nov-21	23-Apr-22	150 2							
	NG VISA OF MAINLAND WORKERS FOR PEDESTRIAN SUB WAY SB-01	334	25-Nov-21	24-Oct-22	03-Jan-22	26-Oct-22	2 2				-			T
KTD.SB.VISA.1000	Prepare/submit/approval working visa for segment construction workers	90	25-Nov-21	22-Feb-22	03-Jan-22	02-Apr-22	39 2							
KTD.SB.VISA.1010	Travel from Mainland to HK for segment construction workers	7	23-Feb-22	01-Mar-22	03-Apr-22	09-Apr-22	39 2					4		1
KTD.SB.VISA.1020	Prepare/submit/approval for HKID and obtain Green Card/Blue Card for segment construction workers	14	02-Mar-22	15-Mar-22	10-Apr-22	23-Apr-22	39 2					4		
KTD.SB.VISA.1030	Prepare/submit/approval for Working Visa for turneling construction workers	90	05-May-22	2 02-Aug-22	07-May-22	04-Aug-22	2 2							
KTD.SB.VISA.1040	Travel from Mainland to HK fortunneling construction workers	7	03-Aug-22		05-Aug-22	11-Aug-22	2 2							
KTD.SB.VISA.1050	Prepare/submit/approval for HKID and obtain Green Card/Blue Card for tunneling construction workers	14	10-Aug-22		12-Aug-22	25-Aug-22	2 2							·····
KTD.SB.VISA.1060	Obtain confined space certified worker/competent person certificate for tunneling construction workers	7	28-Aug-22			05-Sep-22	2 2							1
KTD.SB.VISA.1070	Medical check for Form 3 and 6/receive reports for tunneling construction workers	21	04-Sep-22		06-Sep-22	26-Sep-22	2 2				1		- -	<del> </del>
KTD.SB.VISA.1080	Submit/approval for Form 3 and 6 by Labour Department for tunneling construction workers	30	25-Sep-22		27-Sep-22	26-Oct-22	2 2							
ROCUREMENT, MANUFAC	CTURING AND DELIVERY OF RTBM & FABRICATION OF PRECAST UNITS	619	22-Jul-20	22-Aug-22	06-Aug-20	30-Sep-22	33							
KTD.SB.PDF.1000	Design RTBM and associated equipment (cradle, back thrust wall and etc.)	339	22-Jul-20		06-Aug-20	10-Jul-21	15 2							
KTD.SB.PDF.1010	Procurement and manufacture RTBM and associated equipment	340	26-Jun-21		11-Jul-21	15-Jun-22	15 2				· · · · · · · · · · · · · · · · · · ·		····	
KTD.SB.PDF.1011	Conduct FAT for RTBM and assoicated equipment	1	01-Jun-22		16-Jun-22	16-Jun-22	15 2							
KTD.SB.PDF.1020	Complete RTBM manufacturing, packing and deliver to HK	70	02-Jun-22		17-Jun-22	25-Aug-22	15 2		+		·	E		
KTD.SB.PDF.1030	Design/submit/approve steel mould for precast segment construction	73	01-Sep-21		06-Oct-21	25-Aug-22 17-Dec-21	35 2							
KTD.SB.PDF.1040	Procurement and manufacture steel mould and associated equipment	67	13-Nov-21		18-Dec-21	22-Feb-22	35 2							
KTD.SB.PDF.1050	Deliver steel mould and associated equipment to HK	28	19-Jan-22		23-Feb-22	22-Peb-22 22-Mar-22	35 2				T E			
KTD.SB.PDF.1060	Assemble steel mould on casting yard	10	16-Feb-22		23-Mar-22	02-Apr-22	30 1				L+1	-	+	
KTD.SB.PDF.1070	Design/submit/approve gantry and associated equipment	20	26-Oct-21		23-Mar-22 29-Dec-21	02-Apr-22 17-Jan-22	30 1 64 2					7		
KTD.SB.PDF.1080	Procurement and manufacture gantry and associated equipment	34	15-Nov-21				64 2 64 2					₩ <b>₩</b>	+	·····.
KTD.SB.PDF.1090	Pack/deliver gantry and associated equipment to HK	11	15-Nov-21 19-Dec-21		18-Jan-22	20-Feb-22								
KTD.SB.PDF.1100	Excavate/compact/cast gantry footing at Casting Yard	34	19-Dec-21 10-Nov-21		21-Feb-22	03-Mar-22	64 2		·					
KTD.SB.PDF.1110	Install gantry rail to footing and construct hard pavement for Casting Yard		-		06-Jan-22	08-Feb-22	57 2							
KTD.SB.PDF.1120	Bakfill and compact rockfill layer for segment storage at Casting Yard	20	14-Dec-21		09-Feb-22	03-Mar-22	43 1				1			
KTD.SB.PDF.1130	Install gantry structure and associated equipment at Casting Yard and SAT	-	10-Jan-22		14-Apr-22	23-Apr-22	77 1				-1			
KTD.SB.PDF.1140	Cut-and-bend rebar delivery and trial fix for precast segment construction	26	10-Jan-22		04-Mar-22	02-Apr-22	43 1				L			
KTD.SB.PDF.1150	Submit/approval for CNP for working on Sunday and Holiday for casting precast segments	14	28-Feb-22		04-Apr-22	23-Apr-22	30 1					1		
KTD.SB.PDF.1160	Construct precast segments (49nos, 3days/unit, Working on Sunday & Holiday)	45	30-Jan-22		10-Mar-22	23-Apr-22	39 2	i			ļ	•	1	
EDESTRIAN SUBWAY SB-		160	16-Mar-22	0100000	24-Apr-22	30-Sep-22	39 2							
		1016	22-Jul-20	20-Dec-23	03-Aug-20	25-Sep-24	226		1.1					
KTD.SB.1000	Liaison/coordinate with utility and service undertakings on diversion works (including CLP, DCS work and etc.)	180	22-Jul-20	17-Jan-21	03-Aug-20		12 2							
KTD.SB.1010	Conduct seismic geophysical survey for PERE (Night time, lane-by-lane, 11 night shift) and Kai Tak Area (Day time)	15	04-Nov-20		26-Jul-21	11-Aug-21	212 1			-				
KTD.SB.1020	Expose and demolish existing foundation caps and locating existing piles (1 team) and formating working area	66	06-Jan-21	26-Mar-21	11-Jan-21	31-Mar-21	4 1							-
KTD.SB.1030	Formate working area and install protection to 132kV and Rising Main	18	27-Mar-21	21-Apr-21	01-Apr-21	26-Apr-21	4 1							
KTD.SB.1040	Remove existing piles (37 nos, using DN2500 x 27 nos, 1 team)	52	22-Apr-21	24-Jun-21	27-Apr-21	29-Jun-21	4 1		4					
KTD.SB.1050	Compact and formate the pile removal area for existing haul road diversion and install instrumentation	36	25-Jun-21		30-Jun-21	11-Aug-21	4 1							
KTD.SB.1060	Conduct diversion of existing 11kV cables by CLP	52	28-Jun-21		30-Jun-21	30-Aug-21	2 1							
KTD.SB.1070	Install sheetpile (FSP V, Lines B-A, A-F, F-E, D-E, D-C, 30mH,1710m2, Team A)	50	10-Aug-21	08-Oct-21	12-Aug-21	11-Oct-21	2 1			4				
KTD.SB.1075	Install sheetpile (FSP V, remaining at Line B-A and C-D and Line B-C, 30mH, 1190m2, Team B)	34	28-Aug-21	08-Oct-21	31-Aug-21	11-Oct-21	2 1			-				
KTD.SB.1080	Ground improvement works for break-in grout box (Vertical) and post-coring tests	60	09-Oct-21	18-Dec-21	22-Jul-22	30-Sep-22	230 1				+			
KTD.SB.1090	Excavate (GL@+6mPD to Strut 1@+5.0mPD, 520m3 exca)	7	09-Oct-21	18-Oct-21	12-Oct-21	20-Oct-21	2 1				1			
KTD.SB.1100	Install Strut 1 and Excavate (Strut 1@+5.0mPD to Strut 2@+3.0mPD, 1560m3 exca)	17	19-Oct-21	06-Nov-21	21-Oct-21	09-Nov-21	2 1				-			
KTD.SB.1110	Install Strut 2 and Excavate (Strut 2@+3.0mPD to Strut 3@+0.0mPD, 1300m3 exca)	20	08-Nov-21	30-Nov-21	10-Nov-21	02-Dec-21	2 1				5			
KTD.SB.1120	Install Strut 3 and Excavate (Strut 3@+0.0mPD to Strut 4@-2.5mPD, 1300m3 exca)	20	01-Dec-21	2216.00002238		28-Dec-21	2 1							
KTD.SB.1130	Install Strut 4 and Excavate (Strut 4@-2.5mPD to Strut 5@-5.0mPD, 1300m3 exca)	20	24-Dec-21	19-Jan-22	29-Dec-21	21-Jan-22	2 1							
KTD.SB.1140	Install Strut 5 and Excavate (Strut 5@-5.0mPD to Strut 6@-8.0mPD, 1300m3 exca)	20	20-Jan-22		22-Jan-22	17-Feb-22	2 1					₽		
KTD.SB.1150	Install Strut 6 and Excavate (Strut 6@-8.0mPD to FEL@-9.8mPD, 1040m3 exca)	20	16-Feb-22	10-Mar-22	18-Feb-22	12-Mar-22	2 1				1	-1		1
KTD.SB.1160	Construct RC structure of base slab and kicker (up to -8.0mPD, 540m3 conc)	35	11-Mar-22	25-Apr-22	14-Mar-22	27-Apr-22	2 1					-		1
KTD.SB.1170	Backfill and remove strut 6@-7.5mPD	6	26-Apr-22	03-May-22	28-Apr-22	05-May-22	2 1					-		
KTD.SB.1180	Construct RC structure of wall 1 (up to -5.0mPD, 250m3 conc)	15	04-May-22	21-May-22	06-May-22	24-May-22	2 1					J.T.F.T.		
KTD.SB.1190	Backfill and remove strut 5@-4.5mPD	6	23-May-22	28-May-22	25-May-22	31-May-22	2 1							
KTD.SB.1200	Construct RC structure of wall 2 (up to -2.5mPD, 200m3 conc)	15	30-May-22	16-Jun-22	01-Jun-22	18-Jun-22	2 1					1		
KTD.SB.1210	Backfill and remove strut 4@-2.0mPD	6	17-Jun-22	23-Jun-22	20-Jun-22	25-Jun-22	2 1			111	1			
KTD.SB.1220	Construct RC structure of wall 3 (up to +0.0mPD, 210m3 conc)	15	24-Jun-22	12-Jul-22	27-Jun-22	14-Jul-22	2 1							
KTD.SB.1230	Backfill and remove strut 3@+0.5mPD	6	13-Jul-22	19-Jul-22	15-Jul-22	21-Jul-22	2 1			111	1			i
KTD.SB.1240	Construct RC structure of wall and top slab with opening for RTBM Launching Works (up to 1.6 mPD, 450m3 conc)	20	20-Jul-22	11-Aug-22	22-Jul-22	13-Aug-22	2 1							
KTD.SB.1250	Preparation works for RTBM and surface setup (Site setup, Gantry crane erection, showroom and etc.)	70	08-Jul-22	28-Sep-22	11-Jul-22	30-Sep-22	2 1			<b>.</b>	1			
KTD.SB.1260	Assembly RTBM and associated equipment (install cradle, back thrust wall pad, RTBM and associates) and SAT	30	24-Aug-22	28-Sep-22	26-Aug-22	30-Sep-22	2 1							
KTD.SB.1270	Remove sheetpile for RTBM Launching (11mx7m)	20	29-Sep-22		03-Oct-22	26-Oct-22	2 1			<b>1</b>	1-1-1-			
KTD.SB.1280	RTBM Launching (initial drive, 6m, 4nos precast unit, 0.5m/d)	12	25-Oct-22	05-Nov-22	27-Oct-22	07-Nov-22	2 2							
KTD.SB.1290	RTBM Launching (Main drive, 78m, 45nos precast unit, 1.5m/d)	45	06-Nov-22		08-Nov-22	22-Dec-22	2 2				t			
KTD.SB.1300	RTBM Breakthrough into Retrieving Shaft @Sa Po Road	5	23-Dec-22		23-Dec-22	27-Dec-22	0 2							
KTD.SB.1310	Replacement grout along trenchless tunnel area	5	28-Dec-22		28-Dec-22	03-Jan-23	0 1			<b>.</b>	1 + +		2	
KTD.SB.1320	Remove RTBM and associated equipment (cradle, jacks, back thrust wall pad and etc.)	50	04-Jan-23	04-Mar-23	04-Jan-23	04-Mar-23	0 1						E	
KTD.SB.1330	Construct remaining RC structure of top slab and lift shaft and backfill	58	06-Mar-23	17-May-23	07-Dec-23	17-Feb-24	226 1			· · · · · · · · · · · · · · · · · · ·	t			
KTD.SB.1340	Install steelwork, ABWF, other facilities, lift and other E&M works	180	18-May-23	-	19-Feb-24	25-Sep-24	226 1							
DESTRIAN SUBWAY SB-0		1121	14-Dec-20		14-Dec-20	25-Sep-24	0				}			
KTD.SB.2000	Trial pit/trench excavation to identify existing underground utilities and services and ground investigation works	52	14-Dec-20		14-Dec-20									
KTD.SB.2010	Construct road diversion for Sa Po Road (Stage 1, incl carriageway and footpath)	46	14-Dec-20 19-Feb-21	18-Feb-21 17-Apr-21	14-Dec-20 19-Feb-21	18-Feb-21	0 1			· · · · · · · · · · · · · · · · · · ·	Į			
KTD.SB.2011	Exposed existing shallow covered watermain and conducting diversion works (NCE032/CE025)	40	the second second			17-Apr-21								
KTD.SB.2012	Construction of remaining works after watermain diversion works for implement road diversion of Sa Po Road (CE032/CE02		15-Apr-21	28-May-21	15-Apr-21	28-May-21	0 2				<b>↓↓</b>			
KTD.SB.2020	Implement TTA for Sa Po Road diversion (Stage 1)	2 11	29-May-21	08-Jun-21	29-May-21	08-Jun-21	0 2							
KTD.SB.2030	Site clearance and excavation for trial pits to identify existing UU along Sa Po Road	7	00 1	08-Jun-21	00 1-01	08-Jun-21	0 1				\$			
KTD.SB.2040	Diversion of existing DN1800 stormwater drain pipe and underground utilities/services		09-Jun-21	17-Jun-21	09-Jun-21	17-Jun-21	0 1			RP 1				
KTD.SB.2050	Install sheetpile for Retrieving Shaft (Stage 1, FSP V, 88nos, 24m-H, 1 team)	130	18-Jun-21	20-Nov-21	18-Jun-21	20-Nov-21	0 1			1			ļ	
KTD.SB.2060	Construct road diversion for Sa Po Road (Stage 2, incl traffic deck, carriageway and footpath)	26	22-Nov-21			21-Dec-21	0 1							
		45	22-Dec-21	18-Feb-22	22-Dec-21	18-Feb-22	0 1							
Milestone	Planned Work					De	40							
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Critical Milestone	Summary ED/2018/05 Ka	allaku	evelop	ment - c	stage 5	Dillia	structure v	works at	the For	ner No	orth Ad	ron Are	ea	
Critical Milestone Critical Remaining V		ai iak D	evelopi	ment - a					the For	ner No	ortn Ap	oron Are	ea	29-

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				Finish			Float		JAS	ON	DJFI	MAM	JJAS	ONDJ	JFMAI	MJJAS	ONDJ	FMAI	M.
KTD.SB.2070	Implement TTA for Sa Po Road diversion (Stage 2)	0		18-Feb-22		18-Feb-22	0	1				11		1					
KTD.SB.2080	Install sheetpile for Retrieving Shaft (Stage 2A, FSP V, 46 nos, 24m-H, 1 team)	23	19-Feb-22	17-Mar-22	19-Feb-22	17-Mar-22	0	1											
KTD.SB.2090	Diversion to existing underground utilities/services for remaining sheetpil installation	45	18-Mar-22	16-May-22	18-Mar-22	16-May-22	0	1	<b>       </b>						4				
KTD.SB.2100	Install remaining sheetpile for Retrieving Shaft (Stage 2B, FSP V, 20 nos, 24m-H, 1 team)	9	17-May-22		17-May-22	26-May-22	0	1											
KTD.SB.2110	Excavate and install ELS (GL@+6.0mPD to Strut 1@+5.0mPD, 270m3 exca)	7	27-May-22		27-May-22	04-Jun-22	0	1	<b>+</b> ++	H						<u>_</u>			
KTD.SB.2120	Excavate and install ELS (Strut 1@+5.0mPD to Strut 2@+2.0mPD, 810m3 exca)															<b>L</b> 1			
and the second se	and the second	20	06-Jun-22	28-Jun-22	06-Jun-22	28-Jun-22	0	1	L							1			
KTD.SB.2130	Excavate and install ELS (Strut 2@+2.0mPD to Strut 3@-0.5mPD, 675m3 exca)	20	29-Jun-22	22-Jul-22	29-Jun-22	22-Jul-22	0	1								-			
KTD.SB.2140	Excavate and install ELS (Strut 3@-0.5mPD to Strut 4@-3.0mPD, 675m3 exca)	20	23-Jul-22	15-Aug-22	23-Jul-22	15-Aug-22	0	1								<b>6</b>			
KTD.SB.2150	Excavate and install ELS (Strut 4@-3.0mPD to Strut 5@-5.5mPD, 675m3 exca)	20	16-Aug-22	07-Sep-22	16-Aug-22	07-Sep-22	0	1				TT						1	
KTD.SB.2160	Excavate and install ELS (Strut 5@-5.5mPD to Strut 6@-8.3mPD, 756m3 exca)	20	08-Sep-22	03-Oct-22	08-Sep-22	03-Oct-22	0	1											
KTD.SB.2170	Excavate and install ELS (Strut 6@-8.3mPD to FEL@-10.3mPD, 540m3 exca)	20	05-Oct-22	27-Oct-22	05-Oct-22	27-Oct-22	0	1	┝╺╍ <mark>┝</mark> ┾╍┝	+		-++	++++			Ę			
KTD.SB.2180	Ground improvement works for breakthrough (Horizontal) and post-coring tests	26	28-Oct-22	26-Nov-22	28-Oct-22	26-Nov-22	0	1			E I								
KTD.SB.2190	Construct tunnel portal for RTBM breakthrough				3.200 (1972/2014)	1.1996.000000000000000000000000000000000	222		<b>     </b>				· · · · · · · · · · · · · · · · · · ·			I			
UN CONTRACTOR OF THE SECOND		22	28-Nov-22	22-Dec-22		22-Dec-22	0	1											
KTD.SB.2200	Remove tunnel portal and RTBM shield for RC structure connection works	60	10-Feb-23	25-Apr-23	10-Feb-23	25-Apr-23	0	1									4	Construction of	
KTD.SB.2210	Construct RC structure of base slab (xxx m3 conc)	25	26-Apr-23	25-May-23	26-Apr-23	25-May-23	0	1											ā,
KTD.SB.2220	Construct RC structure of walls (xxx m3 conc)	52	27-May-23	28-Jul-23	27-May-23	28-Jul-23	0	1										5	-
KTD.SB.2230	Construct RC structure of roof slab and lift shaft (xxx m3 conc)	48	29-Jul-23	22-Sep-23	29-Jul-23	22-Sep-23	0	1			1	11-1	1 1 1						
KTD.SB.2240	Backfill Retrieving Shaft up to ground level	39	23-Sep-23	10-Nov-23	23-Sep-23	10-Nov-23	0	1		8	1	11							
KTD.SB.2250	Install ELS and excavate for remaining staircase and escalator trough structure								<b>↓</b>	ä.		-4-4	·		····			····.	
		40	11-Nov-23	29-Dec-23	11-Nov-23	29-Dec-23	0	1		8									
KTD.SB.2260	Construct RC structure of remaining staricase and escalator trough structure and backfill	60	30-Dec-23	12-Mar-24	30-Dec-23	12-Mar-24	0	1		ii -									
KTD.SB.2270	Install steelwork, ABWF, other facilities and other E&M works	160	13-Mar-24	25-Sep-24	13-Mar-24	25-Sep-24	0	1			1							1	
KTD.SB.2280	Planned Completion of Pedestrian Subway SB-01 (Related to Section 12)	0		25-Sep-24		25-Sep-24	0	2											
<b>DNSTRUCTION OF FLF</b>	EVATED WALKWAY LW-02	861	31-Jul-20	27-Jun-23	08-Feb-21	26-Sep-23	77												
						a second second		and the second											
PIER 9		300	20-Oct-20	25-Oct-21	08-Feb-21	26-Jan-22	77												
KTD.LW.1000	Pre-drilling works (2 nos, 1 rig)	45	20-Oct-20	11-Dec-20	08-Feb-21	08-Apr-21	91	1		*		111							
KTD.LW.1010	Piling works for bored pile (PC9-A2, 2200dia x 67m)	40	31-Dec-20	19-Feb-21	09-Apr-21	27-May-21	77	1			-	#1							
KTD.LW.1020	Piling works for bored pile (PC9-A1, 2200dia x 67m)	40	20-Feb-21	12-Apr-21	28-May-21	15-Jul-21	77	1	+-+++	h			+++						
KTD.LW.1030	Testing for completed bored piles (Sonic Test & Interface Core) and site dearance	18	13-Apr-21	04-May-21	16-Jul-21	05-Aug-21	77	1			1					11 1			
KTD.LW.1040												14				- <u> </u> İ		·	
The second s	Installation of ELS and excavation for pile cap construction (520.5m3 exca, 1 team)	29	05-May-21	08-Jun-21	06-Aug-21	08-Sep-21	77	1											
KTD.LW.1050	Construction of RC structure (pile cap & pier column) (184m3, 1 team)	114	09-Jun-21	25-Oct-21	09-Sep-21	26-Jan-22	77	1			1	14			1				
PIER 10		285	07-Nov-20	25-Od-21	09-Feb-21	26-Jan-22	77				-			-					-
KTD.LW.1060	Pre-drilling works (2 nos, 1 rig)	44	07-Nov-20	30-Dec-20	09-Feb-21	08-Apr-21	77	1											
KTD.LW.1070	Piling works for bored pile (PC10-A2, 2200dia x 67m)	40	31-Dec-20	19-Feb-21	09-Apr-21	27-May-21	77	1											
KTD.LW.1080	Piling works for bored pile (PC10-A1, 2200dia x 67m)	40																	
			20-Feb-21	12-Apr-21	28-May-21	15-Jul-21	77	1					· · · · · · · · ·						
KTD.LW.1090	Testing for completed bored piles (Sonic Test & Interface Core) and site clearance	18	13-Apr-21	04-May-21	16-Jul-21	05-Aug-21	77	1											
KTD.LW.1100	Installation of ELS and excavation for pile cap construction (273.5m3 exca, 1 team)	29	05-May-21	08-Jun-21	06-Aug-21	08-Sep-21	77	1			1	-			1	1 1			
KTD.LW.1110	Construction of RC structure (pile cap & pier column) (149m3, 1 team)	114	09-Jun-21	25-Oct-21	09-Sep-21	26-Jan-22	77	1			1	4			1	1	11		-
FOOTBRIDGE (PIER 9 TO F	PIER 10)	433	05-May-21	18-Oct-22	09-Aug-21	26-Sep-23	281				1				-		-		
KTD.LW.1120	Formation and placing concrete blocks in Kai Tak River (66 nos in Kai Tak River and 44 nos at both land side)	26	05-May-21	04-Jun-21	09-Aug-21			1	<b></b>	ļ.,,									
KTD.LW.1130	Erect mid tower in Kai Tak River (Quadshore system)					07-Sep-21	79												
and a second of the second		26	05-Jun-21	07-Jul-21	08-Sep-21	09-Oct-21	79	1											
KTD.LW.1140	Install decking system to deck over Kai Tak River	26	08-Jul-21	06-Aug-21	11-Oct-21	10-Nov-21	79	1											
KTD.LW.1150	Installation and erecting falsework and working platform for constructing RC bridge structure	63	07-Aug-21	22-Oct-21	11-Nov-21	26-Jan-22	79	1					-						
KTD.LW.1160	Construction of RC bridge structure (1079m3, 4 teams)	80	26-Oct-21	29-Jan-22	27-Jan-22	10-May-22	77	1				1111				11			
KTD.LW.1170	Prestressing works and remaining RC works	26	31-Jan-22	04-Mar-22	13-Jan-23	14-Feb-23	281	1				11		1		1			
KTD.LW.1173	Install steel roof structure and associated steel facilities from Pier 9 to Pier 10	120	05-Mar-22	01-Aug-22	15-Feb-23	13-Jul-23	281	1					++				******		
KTD.LW.1176												11			1		. 11		
and the state of the state of the state of the	Install E&M works, testing and commissioning from Pier 9 to Pier 10	90	02-Jul-22	18-Oct-22	12-Jun-23	26-Sep-23	281	1			1	11.				-	A		
KTD.LW.1179	Construct landscaping, ABWF works and other facilities from Pier 9 to Pier 10	50	02-Jul-22	29-Aug-22	31-Jul-23	26-Sep-23	321	1								-			
PIER 11		367	31-Jul-20	25-Oct-21	29-Jul-21	22-Sep-22	270				1			-					
KTD.LW.1180	Liaison/coordinate with adjacent project for TTA arrangement	90	31-Jul-20	28-Oct-20	29-Jul-21	26-Oct-21	363	2	- : :			111				11			1
KTD.LW.1190	Implementation of TTA	7	18-Nov-20	25-Nov-20	19-Oct-21	26-Oct-21	270	1											
KTD.LW.1200	Pre-drilling works (4 nos, 1 rig)	48						-			· · · · · ·								
			26-Nov-20	23-Jan-21		21-Dec-21	270	1		-	-								
KTD.LW.1210	Piling works for bored pile (PC11-A1, 1800dia x 78m)	28	25-Jan-21	01-Mar-21	·22-Dec-21	26-Jan-22	270	1											
KTD.LW.1220	Piling works for bored pile (PC11-A4, 1800dia x 78m)	28	02-Mar-21	07-Apr-21	27-Jan-22	03-Mar-22	270	1			5	411				1 1	11		T
KTD.LW.1230	Piling works for bored pile (PC11-A2, 1800dia x 78m)	28	08-Apr-21	11-May-21	04-Mar-22	06-Apr-22	270	1				-							
KTD.LW.1240	Piling works for bored pile (PC11-A3, 1800dia x 78m)	28	12-May-21	15-Jun-21	07-Apr-22	14-May-22	270	1								++			-
KTD.LW.1250	Testing for completed bored piles (Sonic Test & Interface Core) and site clearance	18	16-Jun-21	07-Jul-21	16-May-22	06-Jun-22	270	1				117							1
KTD.LW.1260	Installation of ELS and excavation for pile cap construction (319.9m3 exca, 1 team)											T				. <u></u>		·	
and a second		26	08-Jul-21	06-Aug-21	07-Jun-22	07-Jul-22	270	1							1				
KTD.LW.1270	Construction of RC structure (pile cap & pier column) (138m3, 1 team)	65	07-Aug-21	25-Oct-21	08-Jul-22	22-Sep-22	270	1					4						
FOOTBRIDGE (PIER 10 TO	) PIER 12)	301	26-Oct-21	31-Oct-22	23-Sep-22	26-Sep-23	270							-		1	-		1
KTD.LW.1280	Remove ELS and formating roundabout for portal and falsework erection from CH93 to CH138	31	26-Oct-21	30-Nov-21	23-Sep-22	31-Oct-22	270	1				11	1 4						
KTD.LW.1281	Implement TTA for erecting portal across carriageway near CH84 to CH93 (Stage 2)	0	01-Dec-21		08-Nov-22		276	1				++				+			
KTD.LW.1282	Construct and erect portal across carriageway near CH84 to CH93	18		21 Day 24		20 1						11		H_					1
			01-Dec-21			28-Nov-22	276	1				++							
KTD.LW.1283	Implement TTA for erecting portal across carriageway near CH138 to CH147 (Stage 3)	0	22-Dec-21	22-Dec-21	28-Nov-22	28-Nov-22	276	1				111							1
KTD.LW.1284	Construct and erect portal across carriageway near CH138 to CH147 (Except secondary beams)	12	22-Dec-21	07-Jan-22	29-Nov-22	12-Dec-22	276	1						-0					1
KTD.LW.1285	Implement TTA for erecting secondary beams across carriageway near CH138 to CH147 (night time, approx 3 nights)	6	08-Jan-22	14-Jan-22	13-Dec-22	19-Dec-22	276	1				TTT		F.	1	TT	1		1
KTD.LW.1286	Implement TTA for RC bridge structure construction (Stage 4)	3	15-Jan-22	18-Jan-22	20-Dec-22	22-Dec-22	276	1						L L					
KTD.LW.1290	Erect falsework and working platform from CH93 to CH138	45	01-Dec-21	25-Jan-22	01-Nov-22	22-Dec-22	270	1								·			
KTD.LW.1300	Construction of RC bridge structure (745m3, 1 teams)		Contraction of the second second															1	
		78	08-Jan-22	13-Apr-22	06-Dec-22	11-Mar-23	270	1				4.4.							
KTD.LW.1310	Prestressing works and remaining RC works	26	14-Apr-22	19-May-22	13-Mar-23	15-Apr-23	270	1							4	4.4			1
KTD.LW.1313	Install steel roof structure and associated steel facilities from Pier 10 to Pier 12	76	20-May-22	18-Aug-22	17-Apr-23	18-Jul-23	270	1			-								1
KTD.LW.1316	Install E&M works, testing and commissioning from Pier 10 to Pier 12	60	19-Aug-22	31-Oct-22	19-Jul-23	26-Sep-23	270	1				11	11		1				-
KTD.LW.1319	Construct landscapiung, ABWFworks and other facilities from Pier 10 to Pier 12	52	19-Aug-22	21-Oct-22		26-Sep-23	278	1											-
the second s	SOFT LANDSCAPING & OTHER WORKS	715	25-Jan-21	27-Jun-23	09-Mar-22								· · · · · · · · · · · · · · · · · · ·				1	••••••	
			and the second second	and the second s		26-Sep-23	77						1 1			1 1			T
KTD.LW.1320	Pre-drilling works (6 nos, 2 rig)	48	25-Jan-21	24-Mar-21	09-Mar-22	10-May-22	330	1			-	4							
KTD.LW.1330	Piling works for pre-bored H-piles for PC1, PC2, PC3 and PC4 (19 nos, 610dia x 70m, 1 rig)	156	31-Jan-22	12-Aug-22	11-May-22	14-Nov-22	77	1		T	1				-				T
KTD.LW.1340	Installation of ELS and excavation for pile caps construction (PC1, PC2, PC3 and PC4, 379.1m3 exca, 1 team)	50	13-Aug-22	13-Oct-22	15-Nov-22	14-Jan-23	77	1			1								1
	Construction of RC structures (inclu. pile caps, pier column, lift shaft, staircase, etc.)	78	14-Oct-22	16-Jan-23		22-Apr-23	77	1				1-1-1-	++			1			-ŀ
KTD.LW.1350	Lift and other E&M installation, testing and commissioning	90	17-Jan-23	09-May-23		26-Sep-23	117				;					11 1	E-	L r	rt
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KTD.LW.1360				27-Jun-23	24-Apr-23	26-Sep-23	77	1					1.1					-	- 18 B
KTD.LW.1360 KTD.LW.1370	Construction of roof, planter, landscape softworks, other facilities and ABWF works for whole walkway	130	11-541-25						1.8								14		+
KTD.LW.1360	Planned Completion of Landscape Elevated Walkway LW-02 (Related to Section 1)	130	11-541-25	27-Jun-23		26-Sep-23	91	2										1	t
KTD.LW.1360 KTD.LW.1370	The second s	17/64	11-041-20					2											t

	Critical Remaining Work
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WORKS PROGRAMME (Page 4 of 10)

29-Dec-23

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		Dur (d)		Finish		Late Finish	Float	ndar 220 2021 2022 JASONDJFMAMJJASONDJFMAMJJASONDJFMAM
CONSTRUCTION OF BOX		229	15-Aug-20	0 26-May-21	24-Oct-20	29-Jul-21	53	
BOX CULVERT B1 (BAY0 CH		205	02-Sep-20	) 14-May-21	24-Nov-20	19-Jul-21	53 1	
KTD.B1.A.1000	Trial pit excavation to expose the existing box culvert near BayO CH364	5	02-Sep-20	Contraction and the second second		28-Nov-20	68 1	
KTD.B1.A.1010	Construction of Bay 0 include ELS/exca/rock fill/RC structure (CH364 to CH350, 14.3m, except roof opening for connect)	53	08-Sep-20	0 11-Nov-20	30-Nov-20	02-Feb-21	68 1	
KTD.B1.A.1020	Construction of Bay 1 include ELS/excavation/rock fill/RC structure (CH350 to CH338, 12.2m)	70	25-Sep-20	) 18-Dec-20	12-Mar-21	08-Jun-21	135 1	
KTD.B1.A.1030	Construction of Bay 2 include ELS/excavation/rock fill/RC structure (CH338 to CH326, 12.2m)	55	29-Sep-20	0 04-Dec-20	16-Mar-21	25-May-21	135 1	
KTD.B1.A.1040	Construction of Bay 3 include ELS/excavation/rock fill/RC structure (CH326 to CH313, 12.2m)	59	15-Oct-20	23-Dec-20	30-Mar-21	12-Jun-21	135 1	
KTD.B1.A.1050	Construction of Bay 4 include ELS/excavation/rock fil/RC structure (CH313 to CH301, 12.2m)	45	21-Oct-20	12-Dec-20	20-Apr-21	12-Jun-21	144 1	
KTD.B1.A.1060	Construction of Bay 5 include ELS/excavation/rock fill/RC structure (CH301 to CH289, 12.2m)	90	27-Nov-20	) 18-Mar-21	22-Feb-21	12-Jun-21	68 1	
KTD.B1.A.1070	Construction of Bay 6 include ELS/excavation/rock fil/RC structure (CH289 to CH277, 12.2m)	57	30-Nov-20	06-Feb-21	16-Mar-21	27-May-21	85 1	
KTD.B1.A.1080	Construction of Bay 7 include ELS/excavation/rock fill/RC structure (CH277 to CH265, 12.2m)	40	30-Nov-20	) 18-Jan-21	16-Mar-21	06-May-21	85 1	
KTD.B1.A.1090	Construction of Bay 8 include ELS/excavation/rock fill/RC structure (CH265 to CH252, 12.2m)	49	07-Dec-20		23-Mar-21	25-May-21	85 1	
KTD.B1.A.1100	Construction of Bay 9 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)	62	10-Dec-20		26-Mar-21	12-Jun-21	85 1	
KTD.B1.A.1110	Construction of Bay 10 include ELS/excavation/rock fill/RC structure (CH240 to CH228, 12.2m)	50	12-Dec-20		31-Mar-21	03-Jun-21	87 1	
KTD.B1.A.1120	Construction of Bay 11 include ELS/excavation/rock fill/RC structure (CH228 to CH216, 12.2m)	49	23-Dec-20		15-Apr-21		87 1	
KTD.B1.A.1130	Remove existing bulk wall near Bay 0 CH364 and complete connection at Bay 0	29				12-Jun-21		
BOX CULVERT B1 (BAY12 C			10-Apr-21		15-Jun-21	19-Jul-21	53 1	
		187	15-Aug-20		24-Oct-20	12-Jun-21	57	
KTD.B1.A.1140	Submission of method statement/temporary works design to MTRC and relevant authorities	145	15-Aug-20	06-Jan-21	24-Oct-20	17-Mar-21	70 2	
KTD.B1.A.1150	Submission and construction of diversion of existing EVA for Bay 12 to Bay 15 works	70	16-Oct-20	09-Jan-21	23-Dec-20	20-Mar-21	57 1	
KTD.B1.A.1160	Mobilization of plant/equipment for Bay 12 to Bay 15 sheetpile installation and TAM grouting works	3	07-Jan-21	09-Jan-21	18-Mar-21	20-Mar-21	57 1	
KTD.B1.A.1170	Install sheetpile by silent piler and TAM grouting works	27	11-Jan-21	10-Feb-21	22-Mar-21	26-Apr-21	57 1	
KTD.B1.A.1180	Excavation and ELS installation for Bay 12 to Bay 15	18	11-Feb-21		27-Apr-21	18-May-21	57 1	
KTD.B1.A.1190	Construction of Bay 12 include rock fill/RC structure (CH216 to CH204, 12.2m)	13	08-Mar-21		29-May-21	12-Jun-21	65 1	── <u>╫</u> ╫╬╍ <u>╠</u> ╹╍╊╍┊╍ <mark>╦</mark> ┙╬╬╌ <mark>┫╶</mark> ╋┊╍╍┊╍ <mark>╋╍┊╍╍┫╶┊╍╸┨╶┊╍╍┥┥╇╸┊╍╍╸</mark>
KTD.B1.A.1200	Construction of Bay 13 include rock fill/RC structure (CH204 to CH192, 12.2m)	19	08-Mar-21		22-May-21	12-Jun-21	59 1	
KTD.B1.A.1210	Construction of Bay 14 include rock fil/RC structure (CH192 to CH180, 12.2m)	21		29-Mar-21 31-Mar-21			202	
KTD.B1.A.1220	Construction of Bay 15 include rock fill/RC structure (CH182 to CH160, 12.2m)				20-May-21	12-Jun-21	57 1	
		16	08-Mar-21		26-May-21	12-Jun-21	62 1	
BOX CULVERT B1 (BAY16 C		170	27-Oct-20			29-Jul-21	53	
KTD.B1.A.1230	Construction of Bay 16 include ELS/exca/rock fill/RC structure (CH167 to CH155, 12.2m)	51	27-Oct-20	24-Dec-20	30-Dec-20	03-Mar-21	53 1	
KTD.B1.A.1240	Construction of Bay 17 include ELS/exca/rock fill/RC structure (CH155 to CH143, 12.2m)	60	27-Oct-20	07-Jan-21	30-Dec-20	13-Mar-21	53 1	
KTD.B1.A.1250	Construction of Bay 18 include ELS/exca/rock fill/RC structure (CH143 to CH131, 12.2m)	66	27-Oct-20	14-Jan-21	30-Dec-20	20-Mar-21	53 1	
KTD.B1.A.1260	Construction of Bay 19 include ELS/exca/rock fill/RC structure (CH131 to CH118, 12.2m)	75	02-Nov-20		06-Jan-21	10-Apr-21	53 1	
KTD.B1.A.1270	Construction of Bay 20 include ELS/exca/rock fill/RC structure (CH118 to CH106, 12.2m)	102	14-Dec-20		20-Feb-21	26-Jun-21	53 1	
KTD.B1.A.1280	Construction of Bay 21 include ELS/exca/rock fil/RC structure (CH106 to CH94, 12.2m)	75	13-Jan-21		19-Mar-21	20-Jun-21 22-Jun-21	53 1	
KTD.B1.A.1290	Install ELS and excavate for expose existing box culvert for connection	20	19-Feb-21				2223	
KTD.B1.A.1300	Demolish existing box culvert for connection and modification of existing box culvert for connection				27-Apr-21	21-May-21	53 1	
KTD.B1.A.1310		48	15-Mar-21		22-May-21	19-Jul-21	53 1	
	Diversion of existing flow into Box Culvert B1	0		14-May-21		19-Jul-21	53 1	
KTD.B1.A.1320	Construction of remaining modification works (incl wall, top slab and bulk wall for abadon existing box culvert)	9	15-May-21	26-May-21	20-Jul-21	29-Jul-21	53 1	
KTD.B1.A.1330	Acutal Advanced Completion of Box Culvert B1 (Related to Section 8)	0		26-May-21		29-Jul-21	64 2	
<b>IODIFICATION OF EXISTI</b>	NG SUBWAY KS10	916	24-Nov-20	27-Dec-23	24-Nov-20	27-Dec-23	0	
KTD.MS.0000	Liaison/coordinate with HyD structure/HyD lighting/EMSD and other utility and service undertakings	180	24-Nov-20	22-May-21	24-Nov-20	22-May-21	0 2	
KTD.MS.1010	Pre-drilling works (1 no, 1 rig)	12	24-May-21		14-Aug-21	27-Aug-21	69 1	╶╴╫╫╢╌╢┈╴ <mark>┲╶╌┍╶┎┲┲</mark> ┓┥┧╗╍┥┑┥┥┥┥┥┥┥┥┥┥┥╸┥╴┥╴
KTD.MS.1014	Liaison/coordinate with CLP for diversion of existing 11kV cables	95	01-Mar-21		01-Mar-21	26-Jun-21	0 1	
KTD.MS.1015	Construct diversion of existing 11kV cables by CLP	52		10000000000000000000000000000000000000				
KTD.MS.1020	Piling works for pre-bored H-piles (4 nos, 610dia x 75m, 1 rig)		28-Jun-21		28-Jun-21	27-Aug-21	0 1	
KTD.MS.1021	Post-piling works tests (proof-drilling and load test)	75	28-Aug-21		28-Aug-21	26-Nov-21	0 1	
KTD.MS.1027		18	27-Nov-21	1 700 000 0000	27-Nov-21	17-Dec-21	0 1	
	Demolition of existing subway structures (inclu. staircase and partial ramp)	78	18-Dec-21	25-Mar-22	18-Dec-21	25-Mar-22	0 1	
KTD.MS.1030	Installation of ELS for construction of entrance at Road D1 (77m ELS, 900m3 exca, 1 teams)	39	26-Mar-22		26-Mar-22	17-May-22	0 1	
KTD.MS.1040	Construction of RC structures (inclu. lift shaft, staircase, pump house and etc.) (365m3, 1 team)	104	18-May-22	19-Sep-22	18-May-22	19-Sep-22	0 1	
KTD.MS.1045	Backfilling of ELS to ground level	78	20-Sep-22	21-Dec-22	27-Jan-23	03-May-23	104 1	
KTD.MS.1060	Site clearance and demolition of remaining existing furnitures at existing subway under Road D1	26	20-Sep-22	21-Oct-22	08-Dec-22	10-Jan-23	66 1	
KTD.MS.1070	Construct roof and floor finishes along existing subway under Road D1	39	22-Oct-22	06-Dec-22	11-Jan-23	27-Feb-23	66 1	
KTD.MS.1080	Install VE panels and its sub-frame along existing subway under Road D1	26	07-Dec-22	09-Jan-23	20-May-23	20-Jun-23	131 1	
KTD.MS.1090	Install steel frame of shelter for new staircase and lift shaft	39	07-Dec-22		28-Feb-23	18-Apr-23	66 1	
KTD.MS.1100	Construct wall/floor finishes for new staircase	52	27-Jan-23		19-Apr-23	20-Jun-23	66 1	
KTD.MS.1110	Lift and other E&M installation, testing and commissioning	156						
KTD.MS.2000			29-Mar-23		21-Jun-23	27-Dec-23	66 1	
KTD.MS.2010	Implement TTA (Phase 1) for closing half Ramp 2, existing staticase@ TKL Rd and LHS of subway part	12	16-Jun-22		16-Jun-22	29-Jun-22	0 1	
	Demolition of existing wall tiles at staircases, floor finishes and furnitures, incl hardrail/guardrail/lighings	26	30-Jun-22		30-Jun-22	30-Jul-22	0 1	
KTD.MS.2020	Construct wall/floor finishes for half Ramp 2 and existing staircase@TKL Rd	39	01-Aug-22		01-Aug-22	15-Sep-22	0 1	
KTD.MS.2030	Construct roof and floor finishes along LHS of subway part	45	16-Sep-22	09-Nov-22	16-Sep-22	09-Nov-22	0 1	
KTD.MS.2040	Install VE panels and its sub-frame along LHS of subway part	39	10-Nov-22	24-Dec-22	10-Nov-22	24-Dec-22	0 1	
KTD.MS.2050	Advance works for installing steel shelter for existing staircase@TKL Rd	18	31-Aug-22	21-Sep-22	13-Oct-22	02-Nov-22	34 1	
KTD.MS.2060	Implement TTA for lift and install main steel frame of shelter for existing staircase@TKL Rd (Nightwork maybe required)	26	22-Sep-22		03-Nov-22	02-Dec-22	34 1	
KTD.MS.2070	Install remaining steel members, glass balustrade, shelter roof top and ancillary facilities	65	25-Oct-22		03-Dec-22	22-Feb-23	34 1	── <u>╊</u> ╋╋╤╬┉┲╅┉┝╅┥┙ <mark>┝</mark> ╋╋┉┿┉ <mark>╋╺┽┉╋┿┉┝┿┈┲<mark>┲</mark>╻┷╖</mark> ┉┽┉╸
KTD.MS.2080	Install partial E&M works inclu lighting and drainage system and steel light trough for LHS subway part	52	12-Dec-22	-	12-Dec-22	15-Feb-23		
KTD.MS.2090	Site clearance for open the completed part to public	6						
KTD.MS.2100	Implement TTA (Phase 2) for closing 2nd half Ramp 2, full Ramp 1 and RHS of subway part		16-Feb-23	100-20000-100	16-Feb-23	22-Feb-23	0 1	
KTD.MS.2110		12	23-Feb-23	100 A 10 A 10 A 10 A 10 A	23-Feb-23	08-Mar-23	0 1	
	Demolition of existing wall tiles at staircases, floor finishes and furnitures, incl handrai//guardrai//lightings	26	09-Mar-23	and the second second	09-Mar-23	12-Apr-23	0 1	
KTD.MS.2120	Construct wall/floor finishes for 2nd half Ramp 2 and full Ramp 1	39	13-Apr-23	30-May-23	13-Apr-23	30-May-23	0 1	
KTD.MS.2130	Construct roof and floor finishes along RHS of subway part	45	31-May-23	24-Jul-23	31-May-23	24-Jul-23	0 1	
KTD.MS.2140	Install VE panels and its sub-frame along RHS of subway part	39	25-Jul-23	07-Sep-23	25-Jul-23	07-Sep-23	0 1	
KTD.MS.2150	Advance works for installing steel shelters for Ramp 2 and Ramp 1	18	15-May-23	05-Jun-23	02-Aug-23	22-Aug-23	65 1	
KTD.MS.2160	Implement TTA for lift and install main steel frame of shelter for Ramp 2 and Ramp 1 (Nightwork maybe required)	39	06-Jun-23	22-Jul-23	23-Aug-23	09-Oct-23	65 1	
KTD.MS.2170	Install remaining steel members, glass balustrade, shelter roof top and ancillary facilities	65	24-Jul-23	09-Oct-23	10-Oct-23	27-Dec-23	65 1	── <u><u>╢╢╴╢</u>──<u></u>┼──┼┼──<mark>╎</mark>╫┼──┼─╂╌┼──╂╶┼──┼┼┼──┼┼──┼╶┼──┼</u>
KTD.MS.2180	Install remaining E&M works inclu lighting and drainage system and steel light trough for RHS subway part	52	25-Aug-23	27-Oct-23		27-Oct-23	0 1	
	Advanced Completion of modification of existing Subway KS10	61	28-Oct-23			27-Dec-23	0 2	── <u>╊</u> ╋ <u>╊</u> ┋ <mark>╔┈╻</mark> ╞╌┥┽╍ <mark>╷</mark> ┫┥┉┊╍ <mark>┟╶┊╶╻</mark> ┟┊╴╸┟┊╴╸┥┥╸
	Planned Completion of modification of existing Subway KS10 (Related to Section 3)	0	20-001-23		20-001-23			
Contraction of the local division of the loc			2744	27-Dec-23	10 11 24	27-Dec-23	0 2	
and the second state of the se	RICT COOLING SYSTEM WORKS	742	27-Mar-21		19-Jul-21	26-Sep-23	0	
The second s	Liaison/coordinate with utility and service undertakings on connection works of DCS works	180	27-Mar-21	22-Sep-21	19-Jul-21	14-Jan-22	114 2	
	Allow time frame for CLP new 132kV cable laying works at Road L9 (Refer to Programme provided by CLP on 16 Jun 2021;	48	11-Oct-21	06-Dec-21	15-Jan-22	15-Mar-22	79 1	
KTD.DCS.1020	Install ELS and excavate from SV-S-2A5B to CH280	52	07-Dec-21	11-Feb-22	16-Mar-22	21-May-22	79 1	
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V Milestone	Planned West					_	10	
♥ Milestone	Planned Work						. 40	
<ul> <li>✓ Milestone</li> <li>✓ Critical Milestone</li> </ul>		Tak D	evelop	ment - 9	Stage 5			Works at the Former North Aprop Area
	Summary ED/2018/05 Kai	Tak D	evelop	ment - S		B Infra		works at the Former North Apron Area

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	Activity Name	Dur (d)	Early Star	t Early Finish	Late Start	Late Finish	Total Float	Calendar	Contraction of the second s		I the shad	2021			2022		el cel el	2023
KTD.DCS.1030	Construct chamber and install pipe&filting of SV-S2 A5B	90	12-Feb-22	a second second	23-May-22	06-Sep-22	79	1	JAS	NDJ	FMAM	JJASC	NDJ	FMAI	MJJAS	UNDJ	FMAM	WJJ
KTD.DCS.1040	Install pipeline from SV-S-2A5B to CH280 (52mL, 14 joints)	26	06-Jun-22		07-Sep-22	10-Sep-22	79	1						1 1		1		
KTD.DCS.1050	Backfilling for trench from SV-S-2A58 to CH280	26	07-Jul-22	05-Aug-22		09-Nov-22	79	1									·	·
KTD.DCS.1060	Install ELS and excavate from CH310 to SV-S-2A10/CH334	21	06-Aug-22			03-Dec-22	79	1								1		1
KTD.DCS.1070	Construct chamber and install pipe&fitting of SV-S-2A10	90	31-Aug-22			24-Mar-23	79	1	<b>  -    </b>								·	
KTD.DCS.1080	Backfilling for trench from CH310 to SV-S-2A10	21	17-Dec-22		25-Mar-23	22-Apr-23	79	1										1
KTD.DCS.1090	Construct ducting and drawpits from SV-S-2A5B/SV-S-2A10 to CH280	26	14-Jan-23	04043650000	23-Wiai-23	24-May-23		1	<b></b>						· · · · · · · · · · · · · · · · · · ·		L	
KTD.DCS.1100	Install ELS and excavate from SV-S-2A5A/OH190 to OH220	52	20-Sep-22	1000 1000 1000	1000000 Colores		79									40	A	1
KTD.DCS.1110	Construct chamber and install pipe&filting of SV-S-2A5A	90	20-Sep-22 22-Nov-22			21-Nov-22	0	1	<b></b>						······			
KTD.DCS.1120	Install pipeline from SV-S-245A to CH220				22-Nov-22	11-Mar-23	0	1										
KTD.DCS.1130	Implementation of TTA for existing roundabout at Olympic Avenue	26	13-Mar-23	G22 11/2022	13-Mar-23	15-Apr-23	0	1				· · · · · · · · ·				· · · · · · ·		
KTD.DCS.1140	Site clearance, cable detection and trial pit excavation at existing public road at Olympic Avenue	1	22-Nov-22			10-Dec-22	10	1							1 1			
KTD.DCS.1150	Install ELS and excavate from CH220 to CH280	21	30-Nov-22			07-Jan-23	10	1	· · · · · · · · · · · · · · · · · · ·									
KTD.DCS.1160		52	24-Dec-22		09-Jan-23	11-Mar-23	10	1							1			
	Install pipeline from CH220 to CH280	26	01-Mar-23		13-Mar-23	15-Apr-23	10	1										
KTD.DCS.1170	Backfilling for trench from SV-S-2A5A to CH280	32	17-Apr-23			24-May-23	0	1							1		-	4 1
KTD.DCS.1180	Construct ducting and drawpits from CHV-S2A5A to CH100	52	25-May-23	27-Jul-23	25-May-23	27-Jul-23	0	1										
KTD.DCS.1190	Install ELS and excavate from SV-S-2A4/CH100 to CH190	52	06-Mar-23	10-May-23	06-Mar-23	10-May-23	0	1		1			1					IT
KTD.DCS.1200	Construct chamber and install pipe&fitting of SV-S-2A4	90	06-Apr-23	27-Jul-23	06-Apr-23	27-Jul-23	0	1									4	<b></b>
KTD.DCS.1210	Install pipeline from SV-S-2A4 to CH190	65	27-Jun-23	11-Sep-23	27-Jun-23	11-Sep-23	0	1							1			-
KTD.DCS.1220	Backfilling for trench from SV-S-2A4 to CH190	26	28-Aug-23		28-Aug-23	26-Sep-23	0	1										
KTD.DCS.1230	Install ELS and excavate from CH0 to CH100	52	06-Mar-23	10-May-23	06-Mar-23	10-May-23	0	1				TT					-	T
KTD.DCS.1240	Install pipeline from CH0 to CH100	26	11-May-23	10-Jun-23	11-May-23	10-Jun-23	0	1										
KTD.DCS.1250	Backfill for trench from CH0 to CH100	38	12-Jun-23	27-Jul-23	12-Jun-23	27-Jul-23	0	1		11		1			11		T	4
KTD.DCS.1260	Construct ducting and drawpits from CH100 to CH0 and existing drawpit	26	28-Jul-23	26-Aug-23	28-Jul-23	26-Aug-23	0	1										E
KTD.DCS.1270	T&C of the installed DCS pipes before connection to existing DCS system	26	28-Aug-23	26-Sep-23	28-Aug-23	26-Sep-23	0	1					-		11			1
KTD.DCS.1280	Planned Completion of DCS works within Parts 1 and 1A (Related to Section 9)	0	-	26-Sep-23		26-Sep-23	0	2										
RENOVATION OF EXIS	STING SUBWAYS KS9 AND KS32	938	31-Jul-20		03-Nov-20	26-Sep-23	0	Constant of the local of the lo							· [			-
KTD.RS.1000	Liasion with UAP project and relevant departments for possession approval/consent	366	-			11					1							
KTD.RS.1000		1 2200	31-Jul-20		03-Nov-20	03-Nov-21	95	2				·····			<i>!</i>			
KTD.RS.1001	Prepare/submission of TTA for KS9 and KS32 Submission for MS/Shop Drawinge/Material for challer for KS9 and KS33	45	01-Aug-21		04-Nov-21	18-Dec-21	95	2										
the state of the s	Submission for MS/Shop Drawings/Material for shelter for KS9 and KS32	63	16-Aug-21		19-Nov-21	20-Jan-22	95	2										
KTD.RS.1003	Off-site fabrication of shelter for KS9 and KS32	90	18-Oct-21		13-Mar-22	10-Jun-22	146	2				4	1					
KTD.RS.1010	Application of XP for renovation works of existing subway KS9 and KS32	153	18-Aug-21	17-Jan-22	18-Aug-21	17-Jan-22	0	2										
RENOVATION OF EXIST		502	18-Jan-22	26-Sep-23	18-Jan-22	26-Sep-23	0							111		1		-
KTD.KS32.1000	Implement TTA (Phase 1) for closing staircases at both sides and one side of Subway KS32	3	18-Jan-22	20-Jan-22	18-Jan-22	20-Jan-22	0	1										
KTD.KS32.1010	Site clearance and erect temporary partition along Subway KS9 for working area	26	21-Jan-22	23-Feb-22	21-Jan-22	23-Feb-22	0	1		1								1
KTD.KS32.1020	Demolition of existing wall tiles at both side staircases, floor finishes and furnitures, incl handrail/guardrail/lights	60	24-Feb-22	11-May-22	24-Feb-22	11-May-22	0	1										
KTD.KS32.1025	Construct wall and floor finishes at both staircases	26	25-Apr-22	26-May-22	25-Apr-22	26-May-22	0	1						- C		+		
KTD.KS32.1030	Construct roof and floor finishes along LHS of subway part	65	27-May-22		06-Jun-22	20-Aug-22	7	1						F				
KTD.KS32.1040	Install VE panel and its sub-frame along LHS of subway part	39	13-Aug-22		22-Aug-22	08-Oct-22	7	1										
KTD.KS32.1050	Advance works for installing steel shelters for both sides staircases	12	27-May-22		27-May-22	10-Jun-22	0	1										
KTD.KS32.1060	Implement TTA for lifting and install main steel frame of shelters for both sides staircases (Nightwork maybe required)	21	11-Jun-22	06-Jul-22	11-Jun-22	06-Jul-22	0	1										
KTD.KS32.1070	Install remaining steel members, glass balustrade, shelter roof top and ancillary facilities for both sides staircases	78	07-Jul-22	08-Oct-22	07-Jul-22	08-Oct-22	0	1							1 <b>2</b>			
KTD.KS32.1080	Install partial E&M works inclu lighting and drainage system and steel light trough for LHS of subway part	65	10-Oct-22															
KTD.KS32.1090	Implement TTA (Phase 2) for closing RHS of subway part	12	24-Dec-22		10-Oct-22 24-Dec-22	23-Dec-22	0	1										
KTD.KS32.1100						10-Jan-23		1				. <b>.</b>				-		
KTD.KS32.1110	Site clearance and erect temporary partition along subway part for working area	13	11-Jan-23	27-Jan-23	11-Jan-23	27-Jan-23	0	1								-		
KTD.KS32.1120	Demolition of existing floor finishes and fumitures, incl lighting Construct roof and floor finishes along RHS of subway part	26	28-Jan-23	27-Feb-23	28-Jan-23	27-Feb-23	0	1								-		
		65	28-Feb-23		28-Feb-23	19-May-23	0	1										
KTD.KS32.1130	Install VE panels along RHS of subway part	39	20-May-23	07-Jul-23	20-May-23	07-Jul-23	0	1										
KTD.KS32.1140	Install remaining E&M works inclu lighting and drainage system and steel light trough at Subway KS9	52	08-Jul-23	06-Sep-23	08-Jul-23	06-Sep-23	0	1										-
KTD.RS.1030	Planned Completion of renovation of existing Subways KS9 and KS32 (Related to Section 1)	0		06-Sep-23		06-Sep-23	0	2								1		
KTD.RS.1040	Advance Completion of renovation of existing Subways KS9 and KS32 to Specific Contract Completion Date (Section 1)	20	07-Sep-23	26-Sep-23	07-Sep-23	26-Sep-23	0	2										
RENOVATION OF EXIST	TING SUBWAY KS9	400	18-Jan-22	27-May-23	18-Jan-22	06-Sep-23	85	1							+++			4
KTD.KS9.1000	Implement TTA (Phase 1) for closing staircases at both sides and LHS of subway part	3	18-Jan-22	20-Jan-22	18-Jan-22	20-Jan-22	0	1					H		1			
KTD.KS9.1010	Site clearance and erect temporary partition along subway part for working area	26	21-Jan-22	23-Feb-22	21-Jan-22	23-Feb-22	0	1					L F					
KTD.KS9.1020	Demolition of existing wall tiles at both side staircases, floor finishes and furnitures, incl handrail/guardrail/lights	39	24-Feb-22	11-Apr-22	24-Feb-22	11-Apr-22	0	1				1	1		11			1
KTD.KS9.1025	Construct wall and floor finishes at both staircases	26	26-Mar-22	29-Apr-22	26-Mar-22	29-Apr-22	0	1										
KTD.KS9.1030	Construct roof and floor finishes along LHS of subway part	45	30-Apr-22	24-Jun-22	14-Sep-22	07-Nov-22	112	1							÷			
KTD.KS9.1040	Install VE panels and its sub-frame along LHS of subway part	26	25-Jun-22	26-Jul-22	08-Nov-22	07-Dec-22	112	1										
KTD.KS9.1050	Advance works for installing steel shelters for both sides staircases	12	30-Apr-22	16-May-22	30-Apr-22	16-May-22	0	1				+						
KTD.KS9.1055	Implement TTA for lifting and install main steel frame of shelters for both sides staircases (Nightwork maybe required)	21	17-May-22	10-Jun-22	17-May-22	10-Way-22 10-Jun-22	0	1						E				
KTD.KS9.1060	Install remaining steel members, glass balustrade, shelter roof top and ancillary facilities	65	11-Jun-22	26-Aug-22	21-Sep-22	07-Dec-22	85	1							P			
KTD.KS9.1070	Install partial E&M works inclu lighting and drainage system and steel light trough for LHS of subway part	52	27-Aug-22	29-Oct-22	08-Dec-22	11-Feb-23	85	1										
KTD.KS9.1080	Implement TTA (Phase 2) for closing RHS of subway part	12	31-Oct-22	12-Nov-22	13-Feb-23	25-Feb-23		1				++				<b>H</b>		
KTD.KS9.1090	Site clearance and erect temporary partition along subway part for working area	12					85											
KTD.KS9.1100	Demolition of existing floor finishes and furnitures, incl lighting		14-Nov-22	28-Nov-22	27-Feb-23	13-Mar-23	85	1				· · · · · · ·	· · · · · ·		·	7		· · · · · ·
KTD.KS9.1110	Construct roof and floor finishes along RHS of subway part	21	29-Nov-22	22-Dec-22	14-Mar-23	11-Apr-23	85	1										
KTD.KS9.1120	Install VE panels along RHS of subway part	45	23-Dec-22	18-Feb-23	12-Apr-23	05-Jun-23	85	1							<u>         </u>			
KTD.KS9.1120		26	20-Feb-23	21-Mar-23	06-Jun-23	07-Jul-23	85	1								14		
NAME OF TAXABLE PARTY OF TAXABLE PARTY.	Install remaining E&M works inclu lighting and drainage system and steel light trough at Subway KS9	52	22-Mar-23	-	08-Jul-23	06-Sep-23	85	1		_							4	4
	ING RISING MAIN AND DEMOLITION OF EXISTING STRUCTURES AT SITE 2C2 & 2C3	373	16-Sep-20	17-Dec-21	17-Sep-20	17-Dec-21	0		V									
KTD.RM.1000	Liasion with relevant departments for removal of abandoned motorcycles under existing structures at Site 2C2 and 2C3	60	16-Sep-20	14-Nov-20	17-Sep-20	15-Nov-20	1	2	-							11		
KTD.RM.1001	Removal of abandoned motorcycles and clearance for demolition works	14	16-Nov-20	01-Dec-20	16-Nov-20	01-Dec-20	0	1	1			11	-		11			1
KTD.RM.1002	Conduct asbestos survey and submission of AIR/AAP to EPD for approval	37	02-Dec-20	07-Jan-21	02-Dec-20	07-Jan-21	0	2										
KTD.RM.1003	Submit notification of commencement of removal works of asbestos at existing cottage at Site 2C2 and 2C3	27	08-Jan-21	03-Feb-21	08-Jan-21	03-Feb-21	0	2	1	-	1	11	1	1	11			
KTD.RM.1004	Erect scaffold and demolition of existing RC structure at Site 2C2 and 2C3	39	08-Jan-21	25-Feb-21	20-Jan-21	09-Mar-21	10	1							11 1			
KTD.RM.1005	Erect protection, removal of asbestos and demolition of existing cottage at Site 2C2 and 2C3	26	04-Feb-21	09-Mar-21	04-Feb-21	09-Mar-21	0	1	·	-	d	+++-			+			· · · · · · ·
KTD.RM.1011	Trial pit excavation to bcate existing twin rising main at CHD and CH184 (1 team)	12	10-Mar-21	23-Mar-21	10-Mar-21	23-Mar-21	0	1			6							
KTD.RM.1012	Open-cut excavation for construction of twin rising main from CH0 to CH184 (175mL,3500m3 exca, 1 team)	63	24-Mar-21	11-Jun-21	24-Mar-21	11-Jun-21	0	1	+		6	++			+++	·		+
KTD.RM.1020	Lay and install pipeworks and cast thrust blocks for twin rising main from CH0 to CH184 (184mL)	115	17-Apr-21	02-Sep-21	17-Apr-21	02-Sep-21	0	1		1					11 1			
KTD.RM.1021	Install ELS and excavate for connection pit for twin rising main at CH0 and CH184 (20mL, 960m3 exca, 1 team)	39	19-Aug-21	05-Oct-21			0	-	+			TC-			·			· · · · · · · · · · · · · · · · · · ·
KTD.RM.1025	Cut existing rising main, lay and install pipeworks and cast thrust blocks for connection of Pipeline 1	18			19-Aug-21	05-Oct-21		1	1			P						
	To many many of and material promotion and case under blocks or completion of Pipeline 1	10	06-Oct-21	27-Oct-21	06-Oct-21	27-Oct-21	0	1		1	1							1
	Planned Work					Rev	. 40											Da
V Milestone																		
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<ul> <li>Milestone</li> <li>Critical Milestone</li> <li>Critical Remaining</li> </ul>	e Summary ED/2018/05 Kai	i Tak D	evelop	ment - S			struct		orks a	t the	Form	er Nort	h Ap	ron A	rea			0-Nov 9-Dec

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TD.RM.1027	Out existing ticing main, lay and install nineworks and aset thrust blocks for representing of Disaling 2	18	28-Oct-21	Finish 17-Nov-21	28-Oct-21	17-Nov-21	Float 0	1	JASON	DJFMAI	JJASON	DJFMA	MJJASONDJF	MAMJ
TD.RM.1027 TD.RM.1030	Cut existing rising main, lay and install pipeworks and cast thrust blocks for connection of Pipeline 2 Backfilling works and abandon the existing sewage rising main	18	28-Oct-21 18-Nov-21	17-Nov-21 17-Dec-21	28-Oct-21 18-Nov-21	17-Nov-21 17-Dec-21	0	1			G			
TD.RM.1040	Planned Completion of diversion and demolition of existing structures at Site 2C2 and 2C3 (Related to Section 5)	0	TOTIOTET	17-Dec-21	iener zr	17-Dec-21	0	2			-			
NSTRUCTION OF ROA	AD WORKS	1313	31-Jul-20	31-Dec-24	01-Sep-20	30-Jun-26	441	ton Lot			┥┥┊╶┊┥			
ONSTRUCTION OF SLIP	ROAD S14	707	31-Jul-20	15-Dec-22	06-Aug-21	30-Jun-26	1047		1	1 1		1 1		
KTD.SR.1000	Liaison/coordinate with utility and service undertakings on diversion works (including CLP, DCS work and etc.)	180	31-Jul-20	26-Jan-21	06-Aug-21	01-Feb-22	371	2						
KTD.SR.1010	Expose and install protect/support system for existing underground utilities and services (incl 132kV and 400kV cables)	104	21-Oct-20	26-Feb-21	27-Oct-21	03-Mar-22	300	1	₩	-				
KTD.SR 1020 KTD.SR 1030-CSD2	Pre-drilling works for pile caps PC1, PC2 and south side of PC3 to PC7 (14 nos, 2 rigs)	131	27-Nov-20	11-May-21 12-May-21	06-Sep-21 15-Feb-22	15-Feb-22 16-Feb-22	228 228	1					·	
KTD.SR.1030-CSD2	Pre-drilling works for pile caps north side of PC3 to PC7 (10 nos, 2 rigs) Submission/approval for CSD Proposal and Detail Design Report by the Employer/relevant authorities	132	12-May-21 26-Nov-20	12-Way-21	04-Sep-21	15-Feb-22	228	1			<u></u> ≱†i i			
KTD.SR 1032-CSD2	Expose existing 132kV and 400kV cables, remove existing abandoned chamber and install protection to existing duct banks	26	12-May-21	11-Jun-21	16-Feb-22	17-Mar-22	228	1		G.				
KTD.SR 1040-CSD2	Piling works of pre-bored H-piles (14 nos, 610dia x 70m, 1 rig)	70	29-May-21	20-Aug-21	04-Mar-22	31-May-22	228	1		5				
KTD.SR.1050	Installation of ELS and excavation and construction for pile cap PC1 (60m3 exca, 30m3 conc, 1 team)	26	21-Aug-21	20-Sep-21	01-Jun-22	02-Jul-22	228	1						
KTD.SR.1060	Construction of temporary supporting system for existing bridge K73	39	21-Sep-21	08-Nov-21	19-Apr-23	05-Jun-23	464	1						
KTD.SR.1070 KTD.SR.1080	Demolition of existing bearing wall Installation of ELS and evenuation and eventuation (or allo can DC2 (60m2 even 20m2 even 1 team)	26	09-Nov-21 09-Dec-21	08-Dec-21 11-Jan-22	06-Jun-23 08-Jul-23	07-Jul-23 07-Aug-23	464	1			-			
KTD.SR 1080	Installation of ELS and excavation and construction for pile cap PC2 (60m3 exca, 30m3 conc, 1 team) Construction of remaining foundation and pier structures (incl. columns, portal beams and etc.) (169m3, 1 team)	52	12-Jan-22	16-Mar-22	08-Aug-23	09-Oct-23	464	1	·····				·· <del>  ·   · · · · ·   · · · · ·   · · · ·</del>	
KTD.SR.1100	Construction of cantilever slab extended from ext. bridge K73 (150m3, 1 team)	39	17-Mar-22		10-Oct-23	24-Nov-23	464	1				The second		
KTD.SR.1110	Backfilling for pile caps (PC1 and PC2)	26	07-May-22	08-Jun-22	25-Nov-23	27-Dec-23	464	1				-		
KTD.SR.2000-CSD2	Piling works of pre-bored H-piles (31 nos, 610dia x 80m, 1 rig)	125	21-Aug-21	20-Jan-22	29-Jun-22	25-Nov-22	251	1	ļ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
KTD.SR.2001-CSD2	Site clearance, post-piling tests and proof drilling works for pre-bored H-piles (3 tests and 2 proof drills)	26	21-Jan-22	23-Feb-22	30-May-26	30-Jun-26	1289	1						
KTD.SR.2010 KTD.SR.2020	Installation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)	52 39	21-Jan-22 26-Mar-22	Color Construction	26-Nov-22 01-Feb-23	31-Jan-23 17-Mar-23	251 251	1						++
KTD.SR.2020	Construction of Retaining Wall S14 (Bay1-4, 460m3, 2 teams) Construction of bridge S14 decking structures (320m3, 1 teams)	39	18-May-22		01-Feb-23 18-Mar-23	28-Apr-23	251	1				16		
KTD.SR.2040	Prestressing works and bearing installation works	26	25-Jun-22	26-Jul-22	12-May-23	12-Jun-23	261	1					-	
KTD.SR.2050	Backfilling for Retaining Wall S14 (Bay 1-7, 1800m3, 2 teams)	36	25-Jun-22	06-Aug-22	29-Apr-23	12-Jun-23	251	1						
KTD.SR.3000	Installation of ELS and excavation for Retaining Wall S14 (Bay5-11, 3600m3 exca, 2 team)	90	21-Aug-21	07-Dec-21	01-Jun-22	16-Sep-22	228	1				3		
KTD.SR.3010	Construction of Retaining Wall S14 (Bay5-11, 800m3, 2 teams)	184	04-Nov-21	21-Jun-22	13-Aug-22	24-Mar-23	228	1				····		<b>.</b>
KTD.SR.3020	Backfilling for Retaining Wall S14 (Bay8-11, 1100m3, 2 teams)	90	18-May-22		20-Feb-23 18-May-23	10-Jun-23 20-Jul-23	228 228	1						
KTD.SR.3030 KTD.SR.3050	Excavate and construct stormwater drain from SMIH1062 to SMIH1066 and associated guilles Backfill and compact sub-base from CH336 to CH124	52	10-Aug-22 30-Sep-22	12-Oct-22 22-Oct-22	18-May-23 11-Jul-23	20-Jul-23 31-Jul-23	228	1	÷					++++-
KTD.SR.3060	Construction of road pavement, road marking, street and other facilities	46	24-Oct-22	15-Dec-22	02-Nov-23	27-Dec-23	305	1						
KTD.SR.9999	Planned Completion of Slip Road S14 (Related to Section 3)	0		15-Dec-22		27-Dec-23	377	2						t
ONSTRUCTION OF ROAL	DS D1, L9, L16, PEDESTRIAN STREETS AND OPEN SPACES	1286	01-Sep-20	31-Dec-24	01-Sep-20	30-Jun-26	441							
CONSTRUCTION OF RO	ADS L9 & L16 AND O LYMPIC AVENUE WITHIN PART 1	643	30-Jul-21	26-Sep-23	30-Jul-21	26-Sep-23	D					1	1 1 1	
CONSTRUCTION OF	UNDERGROUND UTILITIES AND ROADWORKS AT ROAD L16 WITHIN PART 1 (NON-XP AREA)	643	30-Jul-21	26-Sep-23	30-Jul-21	26-Sep-23	0							
KTD.L16.1000	Excavate and construct stormwater drainage from SMH904 to SMH911 and associated drain pits	11	30-Jul-21	11-Aug-21	30-Jul-21	11-Aug-21	0	1			12			
KTD.L16.1010	Backfill and compact the excavated trench from SMH904 to SMH911	3	12-Aug-21	14-Aug-21	12-Aug-21	14-Aug-21	0	1	<b>.</b>		2			
KTD.L16.1014 KTD.L16.1017	Excavate and construct stormwater drainage from SMH909 to SMH911 and associated drain pits Backfill and compact the excavated trench from SMH909 to SMH911	29 15	16-Aug-21 18-Sep-21	17-Sep-21 07-Oct-21	16-Aug-21 18-Sep-21	17-Sep-21 07-Oct-21	0	1			2			
KTD.L16.1020	Excavate and demolish the existing box culvert and backfill at Road L16	30	08-Oct-21	12-Nov-21	08-Oct-21	12-Nov-21	0	1			C			
KTD.L16.1030	Excerte and construct stormwater drainage fm SMH911 to SMH916 and associated drain pits	52	13-Nov-21	15-Jan-22	13-Nov-21	15-Jan-22	0	1			<b>F</b>			
KTD.L16.1040	Backfill and compact the excavated trench from SMH911 to SMH916	18	17-Jan-22	09-Feb-22	17-Jan-22	09-Feb-22	0	1				<b>F9</b>		
KTD.L16.1050	Excavate and construct sewerage from SWTP1_1 to FMH10_40 (182mL pipeline and manholes)	78	10-Feb-22	18-May-22	10-Feb-22	18-May-22		1						
KTD.L16.1060	Excavate and install fresh watermain from CHC0 to CHC180 and associated tees with chambers	60	19-May-22	29-Jul-22	19-May-22	29-Jul-22	0	1				4		
KTD.L16.1070 KTD.L16.1080	Excavate and install salt watermain from CHC0 to CHC180 and associated tees with chambers Excavate and install irregation pipeline at Road L16 within Part 1	39 26	30-Jul-22 15-Sep-22	14-Sep-22 17-Oct-22	30-Jul-22 15-Sep-22	14-Sep-22 17-Oct-22	0	1			• • • • • • • • • • • • • • • • • • • •			+++-+-
KTD.L16.1090	Install and construct gully and associated drain pipes at Road L16 within Part 1	26	13-Sep-22 18-Oct-22	16-Nov-22	18-Oct-22	16-Nov-22	0	1					C.	
KTD.L16.1100	Install and construct road lighting and drawpits civil provisions at Road L16 within Part 1	26	17-Nov-22		17-Nov-22	16-Dec-22	0	1						-
KTD.L16.1110	Allowable time frame for UU undertakings to install their ducts/pits/chambers at Road L16 within Part 1	26	17-Nov-22	16-Dec-22	17-Nov-22	16-Dec-22	0	1						
KTD.L16.1120	Backfill and compact to roadwork formation level at Road L16 within Part 1	12	17-Dec-22	03-Jan-23	17-Dec-22	03-Jan-23	0	1					1	
KTD.L16.1130	Construct road kerb and planter at Road L16 within Part 1	39	04-Jan-23	20-Feb-23	04-Jan-23	20-Feb-23	0	1	ļ					L
KTD.L16.1140 KTD.L16.1150	Backfill and compact sub-base material for road work at Road L16 within Part 1 Construct carriagway pavement (Biturnen and concrete pavement) at Road L16 within Part 1	52 40	28-Jan-23 30-Mar-23	29-Mar-23 20-May-23	28-Jan-23 30-Mar-23	29-Mar-23 20-May-23		1						
KTD.L16.1160	Lay paving blocks for pedestrian access at Road L16 within Part 1	78	30-Mar-23 22-May-23		27-Jun-23	20-way-23 26-Sep-23		1						
KTD.L16.1170	TTA diversion for MTR SWT Station EVA (Stage 3, divert to newly constructed L16 as EVA)	7	22-May-23		22-May-23	30-May-23		1						
KTD.L16.1180	Excavate and construct remaining stormwater drainage and watermain connection	18	31-May-23		31-May-23	20-Jun-23	0	1						19
KTD.L16.1190	Construct remaining road kerb/planter at Road L16 within Part 1	12	21-Jun-23	06-Jul-23	21-Jun-23	06-Jul-23	0	1						
KTD.L16.1200	Allowable time frame for UU undertakings to install remaining ducts/pits/chambers at Road L16 within Part 1	18	07-Jul-23	27-Jul-23	07-Jul-23	27-Jul-23	0	1						
KTD.L16.1210	Lay paving blocks for remaining pedestrian access at Road L16 within Part 1	26	28-Jul-23	26-Aug-23	28-Jul-23	26-Aug-23		1	<b>.</b>					+++-+-
KTD.L16.1220 KTD.L16.1230	Install road fumitures, road markings and landscaping works at Road L16 within Part 1 Planned completion of underground utilities and roadworks at Road L16 within Part 1 (related to Section 1)	52	28-Jul-23	26-Sep-23 26-Sep-23	28-Jul-23	26-Sep-23 26-Sep-23	0	1						
and the second sec	JNDERGROUND UTILITIES AND ROADWORKS AT ROAD L9 WITHIN PART 1 (related to Section 1)	444	29-Mar-22	26-Sep-23	29-Mar-22		0	-						
KTD.L9.1000	TTA diversion for MTRC SWT Station EVA (Stage 2, divert to Sung Wong Toi Road and Crowd Dispersal Route)	0		29-Mar-22		29-Mar-22		1						
KTD.L9.1010	Excavate and demolish the existing box culvert and backfill at Road L9	35	30-Mar-22	16-May-22	30-Mar-22	16-May-22		1				-		
KTD.L9.1020	Excavate and construct stormwater drainage from SMH1026 to SMH454 and associated drain pits	48	17-May-22	13-Jul-22	17-May-22		0	1				5		
KTD.L9.1030	Excavate and install fresh watermain from CHB126 to CHB50 at Road L9 within Part 1	30	14-Jul-22	17-Aug-22	14-Jul-22	17-Aug-22	-	1					¢	
KTD.L9.1040	Excavate and install salt watermain from CHB125 to CHB50 at Road L9 within Part 1	30	18-Aug-22	22-Sep-22	18-Aug-22	22-Sep-22		1	ļ					+++-+
KTD.L9.1050	Excavate and install irregation pipeline at Road L9 within Part 1	26 18	23-Sep-22 26-Oct-22	25-Oct-22 15-Nov-22	23-Sep-22 26-Oct-22	25-Oct-22 15-Nov-22		1						
KTD.L9.1060 KTD.L9.1070	Install and construct guily and associated drain pipes at Road L9 within Part 1 Install and construct road lighting and drawpits civil provisions at Road L9 within Part 1	18	26-Oct-22 16-Nov-22		26-Oct-22 16-Nov-22	15-NOV-22 06-Dec-22		1	<b>.</b>		• • • • • • • • • • • • • • • • • • • •			
KTD.L9.1080	Allowable time frame for UU undertakings to install ducts/pits/chambers at Road L9 within Part 1 (non-XP area)	26	07-Dec-22	09-Jan-23	07-Dec-22	09-Jan-23	0	1						
KTD.L9.1090	Backfill and compact to roadwork formation level at Road L9 within Part 1	18	10-Jan-23	01-Feb-23	10-Jan-23	01-Feb-23	0	1					<b>5</b>	
KTD.L9.1100	Construct road kerb and planter at Road L9 within Part 1	26	02-Feb-23	03-Mar-23	02-Feb-23	03-Mar-23	0	1						
KTD.L9.1110	Backfill and compact sub-base material for road work at Road L9 within Part 1	39	04-Mar-23		04-Mar-23	22-Apr-23	0	1						
KTD.L9.1120	Construct carriageway pavement (Bitumen pavement) at Road L9 within Part 1	52	24-Apr-23	26-Jun-23	24-Apr-23	26-Jun-23	0	1	<b></b>	-	·			
KTD.L9.1130 KTD.L9.1140	Lay paving blocks for pedestrian access at Road L9 within Part 1 Planned completion of underground utilities and roadworks at Road L9 within Part 1 (non-XP area, related to Section 1)	78	27-Jun-23	26-Sep-23 26-Sep-23	27-Jun-23	26-Sep-23 26-Sep-23	0	1						
and all the set of the	JNDERGROUND UTILITIES AND ROADWORKS AT JUNCTION OF L9 & OLYMPIC AVENUE W/IN PART 1	265	04-Feb-22		24-Feb-22	20-Sep-23 22-Dec-22	0	1	<b></b>					++++
KTD.L9.2000	Implement TTA for construct preliminary works for Olympic Avenue roundabout closure	3		07-Feb-22	1	24	and the second	1				1		
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7 Milestone	Planned Work					Ro	v. 40							
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Critical Milestone					-									29-

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	Preliminary works for Olympic Avenue roundabout closure (incl demolish central divider, construct pavement and marking)	26	08-Feb-22		28-Feb-22		17	1				-			
	TTA diversion for MTR SWT Station EVA (Stage 2, divert to Sung Wong Toi Road and Crowd Dispersal Route)	0		29-Mar-22		29-Mar-22	0	1	ļ			2	(		
	Setup and implement TTA for Qympic Avenue roundabout closure	3	30-Mar-22			-	0	1							
COULD DESERVICE AND ADD IN	UU detection and trial pit excavation	3	02-Apr-22		02-Apr-22	06-Apr-22	0	1	<u> </u>						
	Excavate and construct stormwater drainage from SMH1026 to SMH1042 Excavate and construct sewerage from 2A8 1 to FMH23 2	39	07-Apr-22			-		1				1	E_		
Contract Contraction (Contraction)	Excavate and construct Sewerage iron 2Ao_1 to PMIL25_2 Excavate and construct FWM/SWM from CHB50 to CHB0 and CHA450 to CHA360 and associated tees with chambers	26	28-May-22		28-May-22		0	1	ļ						
		26	29-Jun-22		29-Jun-22	29-Jul-22	0	1					1		
	Excavate and install imegation pipeline at Junction of Road L9 & Olympic Avenue within Part 1	12	30-Jul-22	12-Aug-22	30-Jul-22	12-Aug-22	0	1					5		
	Install and construct gully and associated drain pipes at Junction of Road L9 & Olypmic Avenue within Part 1	18	13-Aug-22		13-Aug-22	02-Sep-22	0	1					2		
CALL OF A CONTRACT	Install and construct road lighting and drawpits civil provisions at Junction of Road L9 & Olympic Avenue within Part 1	18	13-Aug-22	•	13-Aug-22	02-Sep-22	0	1					-		
protection and a local design of the second s	Allowable time frame for UU undertakings to install ducts/pits/chambers at Junction of L9 & Olympic Avenue w/in Part 1	26	03-Sep-22		03-Sep-22	06-Oct-22	0	1					-		
the second se	Backfill and compact to formation level for roadworks at Junction of Road L9 & Olympic Avenue within Part 1	18	07-Oct-22	100000000000000000000000000000000000000	07-Oct-22	27-Oct-22	0	1						<b>1</b>	_
to the second person of the second	Construct road kerb, central divider and planter at Junction of Road L9 & Olympic Avenue within Part 1	18	28-Oct-22		28-Oct-22	17-Nov-22	0	1							
	Backfill and compact sub-base material for road work at Junction of Road L9 & Olympic Avenue within Part 1	12	18-Nov-22	1. NO. 100 - 120 -	18-Nov-22		0	1							_
	Construct carriageway pavement (Bitumen pavement) at Junction of Road L9 & Olympic Avenue within Part 1	18	02-Dec-22		02-Dec-22		0	1							
	DERGROUND UTILITIES AND ROADWORKS AT OLYMPIC AVENUE WITHIN PART 1 (XP AREA)	225	23-Dec-22	26-Sep-23	23-Dec-22	26-Sep-23	0			1			L. L.L.	V	1
- Langer (Stranger Stranger St	Implement TTA forstormwater drainage works at Oly Ave E/B and W/B (Phase 1) and UU detection	2	23-Dec-22	24-Dec-22	23-Dec-22	24-Dec-22	0	1						5	
	Excavate and construct stormwater drainage from SMH1035 to SMH1031 and SMH1042 to SMH100B and associated drain	18	28-Dec-22	18-Jan-23	28-Dec-22	18-Jan-23	0	1			1		L. L.		
to the second	Install and construct gully and associated drain pipes at Oly Ave E/B and W/B (Phase 1)	8	19-Jan-23	30-Jan-23	19-Jan-23	30-Jan-23	0	1						5	
and the second	Construct road kerb and central divider at Oly Ave E/B and W/B (Phase 1)	10	31-Jan-23	10-Feb-23	31-Jan-23	10-Feb-23	0	1						-	
and a second	Construct carriageway pavement (Bitumen pavement) at Oly Ave E/B and W/B (Phase 1)	18	11-Feb-23		11-Feb-23	03-Mar-23	0	1						5	
	Remove TTA and implement TTA for stormwater drainage works at Oly Ave E/B and W/B (Phase 2) and UU detection	3	04-Mar-23	07-Mar-23	04-Mar-23	07-Mar-23	0	1							1
	Excavate and cosntruct stormwater drainage from SMH1031 to SMH1030A and SMH100B to SMH100 and associated drain	18	08-Mar-23	28-Mar-23	08-Mar-23	28-Mar-23	0	1							-
	Install and construct gully and associated drain pipes at Oly Ave E/B and W/B (Phase 2)	8	29-Mar-23	11-Apr-23	29-Mar-23	11-Apr-23	0	1							4
KTD.OLY.2080	Construct road kerb and central divider at Oly Ave E/B and W/B (Phase 2)	10	12-Apr-23	22-Apr-23	12-Apr-23	22-Apr-23	0	1							F
KTD.OLY.2090	Construct carriageway pavement (Bitumen pavement) at Oly Ave E/B and W/B (Phase 2)	18	24-Apr-23	15-May-23	24-Apr-23	15-May-23	0	1							G
	Remove TTA and implement TTA for FWM/SWM at Oly Ave W/B (Phase 3) and UU detection	3	16-May-23	18-May-23	16-May-23	18-May-23	0	1							1
KTD.OLY.2110	Excavate and construct FWM/SWM from CHA360 to CHA300 and assocated tees with chambers	12	19-May-23	02-Jun-23	19-May-23	02-Jun-23	0	1							
KTD.OLY.2120	Backfill and construct carriageway pavement (Bitumen pavement) at Oly Ave W/B (Phase 3)	10	03-Jun-23	14-Jun-23	03-Jun-23	14-Jun-23	0	1			1				-†
KTD.OLY.2130	Remove TTA and implement TTA for FWM/SWM at Oly Ave W/B and E/B (Phase 4) and UU detection	3	15-Jun-23	17-Jun-23	15-Jun-23	17-Jun-23	0	1							
KTD.OLY.2140	Excavate and construct FWM/SWM from CHA300 to CHA100 and associated tees with chambers	18	19-Jun-23	11-Jul-23	19-Jun-23	11-Jul-23	0	1							1
KTD.OLY.2150	Backfill and construct carriageway pavement (Bitumen pavement) at Oly Ave W/B and E/B (Phase 4)	16	12-Jul-23	29-Jul-23	12-Jul-23	29-Jul-23	0	1							
KTD.OLY.2160	Remove TTA and implement TTA for FWW/SWM at Sung Wong Toi Road S/B (Phase 5) and UU detection	3	31-Jul-23	02-Aug-23	31-Jul-23	02-Aug-23	0	1			1				-
KTD.OLY.2170	Excavate and construct FWM/SWM from CHA100 to CHA0 and associated tees with chambers	18	03-Aug-23		03-Aug-23	23-Aug-23	0	1							
KTD.OLY.2180	FWM/SWM pipeline washing and testing for connection	8	24-Aug-23		24-Aug-23	01-Sep-23	0	1						· • • • • • • •	-+
KTD.OLY.2190	Backfill and construct carriageway pavement (Bitumen pavement) at Sung Wong Toi Road S/B (Phase 5)	18	02-Sep-23	22-Sep-23	02-Sep-23	22-Sep-23	0	1							
KTD.OLY.2200	Site clearance and remove TTA to resume traffic	3	23-Sep-23		23-Sep-23	26-Sep-23	0	1	<b> </b>		-+		·		-
KTD.OLY.2210	Planned completion of underground utilities and roadworks at Olympic Avenue within Part 1 (related to Section 1)	0		26-Sep-23		26-Sep-23	0	2					1   1		
ONSTRUCTION OF PEL	DESTRIAN ACCESS FROM L9 TO OLYMPIC AVENUE WITHIN PART 1 (XP AREA)	291	07-Oct-22	26-Sep-23	07-Oct-22	26-Sep-23	0								
and a second	Demolish and remove site hoarding from Road L9 to Olympic Avenue within Part 1	12	07-Oct-22		07-Oct-22	20-Oct-22	0	1					1 1 1		
State of the state	Site clearance and relocate construction material stockpile at Storage Yard	12	21-Oct-22			03-Nov-22	0	1					h	C	+
Contraction of the second	Excavate and construct u-channels and connect to stormwater drainage system	26	04-Nov-22		04-Nov-22	03-Dec-22	0	1						6	
	Install and construct road lighting and drawpits civil provisions from Road L9 to Olympic Avenue within Part 1	18	05-Dec-22		05-Dec-22	24-Dec-22	0	1	÷				·		+
	Allowable time frame for UU undertakings to install ducts/pits/chambers from Road L9 to Olympic Avenue within Part 1	26	28-Dec-22		28-Dec-22	30-Jan-23	0	1							
	Backfill and compact to formation level for road works	26	31-Jan-23		31-Jan-23	01-Mar-23	0	1	÷				·	C	-
	Backfill and compact sub-base material for road works	26		31-Mar-23	02-Mar-23		0	1							
and a support of the second	Lay paving blocks for pedestrian access from Road L9 to Olympic Avenue within Part 1	39	02-Mar-23			31-Mar-23	0	1					·····		-rr
	Implement TTA for closing existing pedestrian access from Road L9 to Clympic wenter within Part 1 and divert to new access					22-May-23		1							T
	Remove existing paving blocks, excavate and install irregation pipeline from Road L9 to Olympic Avenue within Part 1	18	23-May-23 24-May-23			23-May-23	0	1		·····			·····		
2 SOM CONTRACTOR OF STREET	Construct road kerb and planter fm Road L9 to Olympic Avenue within Part 1	26	15-Jun-23		24-May-23 15-Jun-23	14-Jun-23 17-Jul-23	0	1							
	Laying paving blocks for pedestrian access fm Road L9 to Olympic Avenue within Part 1	20					0	1							
	Install road furnitures, road markings and landscaping works from Road L9 to Olympic Avenue within Part 1		18-Jul-23	16-Aug-23	18-Jul-23	16-Aug-23	0	1							
		35	17-Aug-23		17-Aug-23	26-Sep-23	0	1							
	Planned completion of pedestrian access from Road L9 to Olympic Avenue within Part 1 (XP area, related to Section 1)	0	00 14 00	26-Sep-23	47.4.00	26-Sep-23	0	2							
NSTRUCTION OF ROAD		242	06-Mar-23		17-Apr-23	27-Dec-23	0		L						1
A second s	RTION 1 (ROAD D1 E/B & W/B CH170 TO CH230)	156	17-Apr-23		17-Apr-23	21-Oct-23	0	1							
and the second division in the second s	Site clearance, haul road diversion, formation and fence off working area	4	17-Apr-23		17-Apr-23	20-Apr-23	0	1					1		4
	Excavate and construct stormwater drain from SMH1023 to SMH1021 and associated gullies	35	21-Apr-23		21-Apr-23	02-Jun-23	0	1							G
the second secon	Excavate and construct stormwater drain from SMH1054 to SMH1051 and associated gullies	35	03-Jun-23	15-Jul-23	03-Jun-23	15-Jul-23	0	1							
	Excavate and construct sewerage from FMH25_1 to FMH25_2a	20	17-Jul-23	08-Aug-23	17-Jul-23	08-Aug-23	0	1							-
	Excavate and construct FWM/SWM from CH450 to CH500	20	09-Aug-23	31-Aug-23	09-Aug-23	31-Aug-23	0	1							
	Backfill and construct road kerb/central divider from Road D1 E/B & W/B CH170 to CH230 for road works	18	01-Sep-23	21-Sep-23	01-Sep-23	21-Sep-23	0	1							
KTD.D1.1060	Backfill and compact sub-base from Road D1 E/B & W/B CH170 to CH230 for road works	24	22-Sep-23	21-Oct-23	22-Sep-23	21-Oct-23	0	1							
ONSTRUCTION OF POI	RTION 2 (ROAD D1 E/B CH230 TO CH396)	111	06-Mar-23	21-Jul-23	18-May-23	25-Oct-23	79	1							-
KTD.D1.2000	Site clearance, haul road diversion, formation and fence off working area	4	06-Mar-23	09-Mar-23	18-May-23	22-May-23	58	1							-
KTD.D1.2010	Excavate and construct stormwater drain from SMH1101B to SMH1201C	48	10-Mar-23	10-May-23	23-May-23	20-Jul-23	58	1						G	
KTD.D1.2020	Backfill and construct road kerb/central divider from Road D1 E/B CH230 to CH396	35	11-May-23		21-Jul-23	30-Aug-23	58	1							
KTD.D1.2030	Backfill and compact sub-base from Road D1 E/B CH230 to CH396	24	23-Jun-23		25-Sep-23	25-Oct-23	79	1							
and the second se	RTION 3 (ROAD D1 W/B CH230 TO CH300)	142	06-Mar-23		04-May-23		46	1							-
	Site clearance, haul road diversion, formation and fence off working area	4	06-Mar-23	in the second second	04-May-23	And the second	46	1		·····				·····	H
	Excavate and construct stormwater drain from SMH1120 to SMH1123 and associated gullies	26	10-Mar-23		09-May-23	08-Jun-23	46	1							
and the second sec	Excavate and construct stormwater drain from SMH1001 to SMH1107 and associated gullies	37	01-Apr-23		01-Jun-23	15-Jul-23	46	1		+					-
The second se	Excavate and construct severage from FMH25_2a to FMH25_4	12	20-May-23		17-Jul-23	29-Jul-23	46	1							-
	Excavate and construct severage from PMIR25_24 to PMIR25_4 Excavate and construct FMW/SWM from CH500 to CH570	26							·	·			·····		
	Excertial and construct road kerb/central divider from Road D1 W/B CH230 to CH300		05-Jun-23	06-Jul-23	31-Jul-23	29-Aug-23	46	1							
Conference and an and a second second	Backfill and construct road kerb/dentral divider from Road D1 W/B CH230 to CH300 Backfill and compact sub-base from Road D1 W/B CH230 to CH300	26	07-Jul-23	05-Aug-23	30-Aug-23	28-Sep-23	46	1	·					······	
			07-Aug-23	and the second second second	29-Sep-23	21-Oct-23	46	1							
in the second	RTION 4 (ROAD D1 W/B CH300 TO CH396)	125	11-May-23		17-Jul-23	12-Dec-23	54	1							
	Site clearance, haul road diversion, formation and fence off working area	4	11-May-23		17-Jul-23	20-Jul-23	54	1							
· · · · · · · · · · · · · · · · · · ·	Excavate and construct stormwater drain from SMH1108 to SMH1108A	12	16-May-23		21-Jul-23	03-Aug-23	54	1							
	Excavate and construct stormwater drain from SMH1107 to 1271 and associated gullies	26	31-May-23		04-Aug-23	02-Sep-23	54	1							
	Excavate and construct FWM/SWM from CH570 to CH670	35	26-Jun-23	05-Aug-23	29-Aug-23	10-Oct-23	54	1							
KTD.D1.4030															
KTD.D1.4030															_
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	Activity Name	Dur (d)	Early Start	Early Finish		Late Finish	Float	Calendar		SON	DJFM	AMJ	JASC	NDJ	FMA	MJJ	ASON	DJFM	AMJ
KTD.D1.4040	Backfill and construct road kerb/central divider from Road D1 W/B CH300 to CH396	26	07-Aug-23		11-Oct-23		54	1											11
KTD.D1.4050	Backfill and construct sub-base from Road D1 W/B CH300 to CH396	35	28-Aug-23		01-Nov-23		54	1					ļļ.					4	
KTD.D1.5000	PORTION 5 (PEDESTRIAN ACCESS AND CARRIAGEWAY PAVEMENTAT ROAD D1)	181		27-Dec-23	01-Aug-23		0											1 1	T
KTD.D1.5010	Demolition and removal of existing site hoarding or boundary fence at Road D1 E/B Pedestrian Access Construct u-channel/lighting duct and drawpits at Road D1 E/B Pedestrian Access	26	22-May-23 23-Jun-23	21-Jun-23 24-Jul-23	01-Aug-23 31-Aug-23		58	1					·						1
KTD.D1.5020	Construct planter kerb at Road D1 E/B Pedestrian Access	18	25-Jul-23	14-Aug-23	03-Oct-23		58	1											Ĩ
KTD.D1.5030	Allowable time frame for UU undertakings to install ducts/pits/chambers at Road D1 E/B Pedestrian Access	18	15-Aug-23	04-Sep-23	25-Oct-23	14-Nov-23	58	1	+		•		-					··+····+	
KTD.D1.5040	Lay paving blocks and install street furnitures/facilities for Road D1 E/B Pedestrian Access	35	05-Sep-23	17-Oct-23	15-Nov-23		58	1											
KTD.D1.6000	Construct u-channel/lighting duct and drawpits at Road D1 W/B Pedestrian Access from CH170 to CH300	26	17-Jul-23	15-Aug-23	19-Aug-23	18-Sep-23	29	1			1		·					· † · · · · †	
KTD.D1.6010	Construct planter kerb at Road D1 W/B Pedestrian Access from CH170 to CH300	18	16-Aug-23	05-Sep-23	19-Sep-23	11-Oct-23	29	1											
KTD.D1.6020	Allowable time frame for UU undertakings to install ducts/pits/chambers at Road D1 W/B Pedestrian Access CH170 to QH30	18	06-Sep-23	26-Sep-23	12-Oct-23	02-Nov-23	29	1	1							1		1 1	
KTD.D1.6030	Lay paving blocks and install street furnitures/facilities for Road D1 W/B Pedestrian Access CH170 to CH300	35	27-Sep-23	09-Nov-23	03-Nov-23	13-Dec-23	29	1											
KTD.D1.6040	Construct landscaping softworks for Road D1 W/B Pedestrian Access CH170 to CH300	18	01-Nov-23		05-Dec-23		29	1											
KTD.D1.7000	Construct u-channel/lighting duct and drawpits at Road D1 W/B Pedestrian Access CH300 to CH396	18	03-Jul-23	22-Jul-23	08-Sep-23		58	1				ļ	ļļ.						4
KTD.D1.7010	Construct planter kerb at Road D1 W/B Pedestrian Access CH300 to CH896	18	24-Jul-23	12-Aug-23	29-Sep-23		58	1											
KTD.D1.7020	Allable time frame for UU undertakings to install ducts/pits/chambers at Road D1 W/B Pedestrian Access CH300 to CH396	18	14-Aug-23	02-Sep-23	24-Oct-23	13-Nov-23	58	1				į	ļļ.						
KTD.D1.7030 KTD.D1.7040	Lay paving blocks and install street furnitures/facilities for Road D1 W/B Pedestrian Access CH300 to CH396 Construct landscaping softworks for Road D1 W/B Pedestrian Access CH300 to CH396	26 18	04-Sep-23	05-Oct-23 17-Oct-23	14-Nov-23		58	1											
KTD.D1.8000	Construct raindscaping softworks for Road D1 W/B CH170 to CH230 (12d for each layer test result, exclu wearing layer)	40	25-Sep-23 24-Oct-23	08-Dec-23	05-Dec-23 07-Nov-23	11	58	1										-++	
KTD.D1.8010	Construct carriageway pavement and road marking for Road D1 E/B (12d for each layer test result, a layers)	52	22-Sep-23	2200. 1920. 10 Jac.	26-Oct-23		26	1									1	1 1	
KTD.D1.8020	Construct carriageway pavement and road marking for Road D1 W/B (12d for each layer test result, 3 layers)	52	24-Oct-23	22-Dec-23	24-Oct-23		0	1	÷ • • • • • • • • • • • • • • • • • • •										
KTD.D1.9000	Advanced Completion of Road D1 within Part 1A	5	23-Dec-23		23-Dec-23		0	2											
KTD.D1.9999	Planned Completion of Road D1 within Part 1A (Related to Section 3)	0		27-Dec-23		27-Dec-23	0	2										-++	
	ROWD DISPERSAL ROUTE (CDR) WITHIN PARTS 2 AND 10	467	01-Sep-20	29-Mar-22	01-Sep-20	29-Mar-22	0			+ +	-			++	-				
KTD.CDR.1000	Liaison/coordinate with CLP for new 132kV and 11kV cable laying at Road L16, Part 3 and Crowd Dispersal Route	123	01-Sep-20	01-Jan-21	01-Sep-20	01-Jan-21	0	2	-				·			1		++	
KTD.CDR.1010	Excavate and construct storm drain pipework (40mL)/catchpit fm CH0 to CH20	48	02-Jan-21	02-Mar-21	02-Jan-21	02-Mar-21	0	1											
KTD.CDR.1020	Backfill pipeline area fm CH0 to CH20 and excavate and construct u-channel fm CH0 to CH180	66	03-Mar-21	25-May-21	03-Mar-21	25-May-21	0	1			5		[ ] [				1		
KTD.CDR.1030	Excavate and construct lighting drawpits and lay cable ducts fm CH0 to CH180	78	07-Apr-21	10-Jul-21	25-Jun-21	25-Sep-21	65	1			1 1								
KTD.CDR.1040	Backfill and compact sub-base and construct road pavement fm CH0 to CH180	78	08-May-21	10-Aug-21	18-Aug-21	19-Nov-21	84	1			1	4							
KTD.CDR.1050	Excavate and construct u-channel fm CH180 to CH292	43	26-May-21	16-Jul-21	26-May-21		0	1											
KTD.CDR.1060	Excavate and construct lighting drawpits and lay cable ducts fm CH180 to CH292	45	12-Jul-21	01-Sep-21	27-Sep-21	19-Nov-21	65	1											
KTD.CDR.1070	Backfill and compact sub-base and construct road pavement fm CH180 to CH292	65	02-Sep-21	19-Nov-21	20-Nov-21	10-Feb-22	65	1				į	· •						
KTD.CDR.1080 KTD.CDR.1090	Excavate and construct storm drain pipework/manhole SMIH119 Backfill pipeline area to SMIH119 and construct u-channel fm CH292 to CH455	40	17-Jul-21	01-Sep-21	17-Jul-21	01-Sep-21	0	1				ľ	2						
KTD.CDR.1100	Excavate and construct lighting drawpits and lay cable ducts fm CH292 to CH455	70 52	02-Sep-21 05-Oct-21	25-Nov-21 04-Dec-21	02-Sep-21 05-Oct-21	25-Nov-21 04-Dec-21	0	1										-++	
KTD.CDR.1110	Excavate and construct watermain pipework and install fire hydrants from CH316 to CH455	52	05-Oct-21	04-Dec-21 04-Dec-21	05-Oct-21	04-Dec-21	0	1			1								
KTD.CDR.1120	Backfill and compact sub-base and construct road pavement fm CH292 to CH455	78	05-Nov-21	10-Feb-22	05-Nov-21	10-Feb-22	0	1					<b>[</b>	- Contra				-++	
KTD.CDR.1130	Install chain-link fence from CH0 to CH455 and install lighting poles and cabling by HyD sub-contractor	40		29-Mar-22	11-Feb-22		0	1			1			5		i.			
KTD.CDR.1140	Planned Completion of Roadworks and Utilities/Services within Parts 2 and 10 (Related to Section 6)	0		29-Mar-22		29-Mar-22	0	2			1	·	t-		-	- i-i		· † · · · · †	
	UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.1 Excavate and construct storm drain pipework (120mL/catchpil/manholes fm SMH905A b) SMH905B	169 68	03-Mar-21 03-Mar-21	25-Sep-21 27-May-21	03-Mar-21 03-Mar-21	17-Dec-21 27-May-21	69 0	1											
KTD.PS1.1000				- ITICIT'L		- midy 21		-	-6	1	-	F					1		
KTD.PS1.1000 KTD.PS1.1010	Backfill fm SMH905A to SMH905B	20	28-May-21	21-Jun-21	19-Aug-21	10-Sep-21	69	1		1	:	: <b>P</b>				- i -	i.		
		20 39	28-May-21 22-Jun-21	21-Jun-21 06-Aug-21	19-Aug-21 11-Sep-21	10-Sep-21 29-Oct-21	69 69	1											
KTD.PS1.1010	Backfill fm SMH905A to SMH905B	-						-				5							
KTD.PS1.1010 KTD.PS1.1020 KTD.PS1.1030 KTD.PS1.1040	Backfill fm SMH905A to SMH905B Construct fresh/sait watermain pipework (150mL/chambers along CHC9 Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1 Backfill up to formation level for Pedestrian Street No.1	39 39 28	22-Jun-21 09-Jul-21 24-Aug-21	06-Aug-21 23-Aug-21 25-Sep-21	11-Sep-21 29-Sep-21 16-Nov-21	29-Oct-21 15-Nov-21 17-Dec-21	69	-				- - - - -							
KTD.PS1.1010 KTD.PS1.1020 KTD.PS1.1030 KTD.PS1.1040 CONSTRUCTION OF	Backfill fm SMH905A to SMH905B Construct fresh/sait watermain pipework (150mL/chambers along CHC9 Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1 Backfill up to formation level for Pedestrian Street No.1 UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.3	39 39 28 170	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21	69 69 69 0	-					L-French-						
KTD.PS1.1010 KTD.PS1.1020 KTD.PS1.1030 KTD.PS1.1040 CONSTRUCTION OF KTD.PS3.1000	Backfill fm SMH905A to SMH905B         Construct fresh/sait watermain pipework (150mL/chambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT PEDESTRIAN STREETNO.3         Excavate and construct storm drain pipework (33mL) to Box Culvert B1	39 39 28 170 48	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 28-May-21	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21	69 69 69 0 0	-					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1030           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010	Backfill fm SMH905A to SMH905B         Construct fresh/sait watermain pipework (150mL/chambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.3         Excavate and construct storm drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits	39 39 28 170 48 29	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 26-Jul-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 28-May-21 26-Jul-21	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 27-Aug-21	69 69 69 0 0 0	-					L-French-						
KTD.PS1.1010 KTD.PS1.1020 KTD.PS1.1030 KTD.PS1.1040 <b>CONSTRUCTION OF</b> KTD.PS3.1000 KTD.PS3.1010 KTD.PS3.1020	Backfill fm SMH905A to SMH905B         Construct fresh/salt watermain pipework (150mL)/chambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.3         Excavate and construct sform drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits         Construct sewer drain pipework (171mL)/manholes fm FMH10_40 to FMH10_65b	39 39 28 170 48 29 39	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Ocl-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21	69 69 0 0 0 0 0	1 1 1 1 1 1 1 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1030           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1030	Backfill fm SMH905A to SMH905B         Construct fresh/salt watermain pipework (150mL)/chambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.3         Excavate and construct softm drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits         Construct sewer drain pipework (171mL)/manholes fm FMH10_40 to FMH10_65b         Construct salt watermain pipework (150mL)/chambers along CHC0/Construct road lighting drawpits and lay cable ducts	39 39 28 170 48 29 39 48	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21	69 69 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1040           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1020           KTD.PS3.1030           KTD.PS3.1040	Backfill fm SMH905A to SMH905B           Construct fresh/sait watermain pipework (150mL)/chambers along CHC9           Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1           Backfill up to formation level for Pedestrian Street No.1           UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.3           Excavate and construct storm drain pipework (33mL) to Box Culvert B1           Backfill pipework area and construct catchpits           Construct salt watermain pipework (171mL)/manholes fm FMH10_40 to FMH10_65b           Construct salt watermain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts           Backfill up to formation level for Pedestrian Street No.3	39 39 28 170 48 29 39 48 31	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21	11.Sep-21 29.Sep-21 16-Nov-21 28-May-21 28-May-21 26-Jul-21 28.Aug-21 14.Sep-21 12-Nov-21	29-Oct-21 15-Nov-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21	69 69 0 0 0 0 0	1 1 1 1 1 1 1 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1040           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1020           KTD.PS3.1030           KTD.PS3.1040	Backfill fm SMH905A to SMH905B         Construct fresh/sait watermain pipework (150mL)/chambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.3         Excavate and construct storm drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits         Construct sait watermain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.3         UNDERGROUND UTILITIES AT PEDESTRIAN STREETNO.4	39 39 28 170 48 29 39 48	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21	29-Oct-21 15-Nov-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21	69 69 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1030           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1030           KTD.PS3.1030           KTD.PS3.1040           CONSTRUCTION OF	Backfill fm SMH905A to SMH905B           Construct fresh/sait watermain pipework (150mL)/chambers along CHC9           Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1           Backfill up to formation level for Pedestrian Street No.1           UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.3           Excavate and construct storm drain pipework (33mL) to Box Culvert B1           Backfill pipework area and construct catchpits           Construct salt watermain pipework (171mL)/manholes fm FMH10_40 to FMH10_65b           Construct salt watermain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts           Backfill up to formation level for Pedestrian Street No.3	39 39 28 170 48 29 39 48 31 170	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 28-May-21	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21	69 69 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1030           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1020           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS4.1000	Backfill fm SMH905A to SMH905B         Construct fresh/sait watermain pipework (150mL)/chambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.3         Excavate and construct storm drain pipework (33mL) to Box Culvert B1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT OPEDESTRIAN STREET NO.3         Excavate and construct storm drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits         Construct sit watermain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.3         UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.4         Excavate and construct storm drain pipework (192mL)/catchpit/manhole fm SMH505 to SMH1005A	39 39 28 170 48 29 39 48 31 170 48	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 28-May-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21	69 69 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1030           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1030           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS4.1000           KTD.PS4.1010	Backfill fm SMH905A to SMH905B           Construct fresh/sait watermain pipework (150mL)/chambers along CHC9           Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1           Backfill up to formation level for Pedestrian Street No.1           UNDERGROUND UTILITIES AT FEDESTRIAN STREET NO.3           Excavate and construct storm drain pipework (33mL) to Box Culvert B1           Backfill up to formation level for Pedestrian Street No.1           UNDERGROUND UTILITIES AT FEDESTRIAN STREET NO.3           Excavate and construct storm drain pipework (33mL) to Box Culvert B1           Backfill pipework area and construct actchpits           Construct sait watermain pipework (171mL)/manholes fm FMH10_40 to FMH10_65b           Construct sait watermain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts           Backfill up to formation level for Pedestrian Street No.3           UNDERGROUND UTILITIES AT PEDES TRIAN STREETNO.4           Excavate and construct storm drain pipework (192mL)/catchpit/manhole fm SMH505 to SMH1005A           Excavate and construct sewer drain pipework (185mL)/manhole fm FMH25_30 to FMH25_10	39 39 28 170 48 29 39 48 31 170 48 51	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 28-May-21 28-May-21 22-Jun-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 20-Aug-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 28-May-21 28-May-21 22-Jun-21	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 20-Aug-21	69 69 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1030           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1030           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS4.1000           KTD.PS4.1010           KTD.PS4.1020           KTD.PS4.1020           KTD.PS4.1020           KTD.PS4.1020           KTD.PS4.1030           KTD.PS4.1040	Backfill fm SMH905A to SMH905B         Construct fresh/sait watermain pipework (150mL)/chambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.3         Excavate and construct storm drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits         Construct sait watermain pipework (171mL)/manholes fm FMH10_40 to FMH10_65b         Construct sait watermain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.3         UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.4         Excavate and construct storm drain pipework (192mL)/catchpit/manhole fm SMH505 to SMH1005A         Excavate and construct storm drain pipework (192mL)/catchpit/manhole fm SMH505 to SMH1005A         Excavate and construct sever drain pipework (165mL)/manhole fm FMH25_30 to FMH25_10         Backfill pipework area and construct fresh watermain pipework (170mL)/chambers along CHC11         Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.4	39 39 28 170 48 29 39 48 31 170 48 51 39	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 26-Jul-21 28-Aug-21 12-Nov-21 28-Aug-21 12-Nov-21 28-May-21 28-May-21 22-Jun-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 24-Jul-21 20-Aug-21 07-Oct-21 11-Nov-21 11-Nov-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 28-May-21 22-Jun-21 21-Aug-21	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 20-Aug-21 07-Oct-21	69 69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1030           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1030           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS4.1000           KTD.PS4.1010           KTD.PS4.1020           KTD.PS4.1020           KTD.PS4.1020           KTD.PS4.1030           KTD.PS4.1040           KTD.PS4.1050	Backfill fm SMH905A to SMH905B         Construct fresh/sait watermain pipework (150mL)/chambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.3         Excavate and construct storm drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits         Construct salt watermain pipework (171mL)/manholes fm FMH10_40 to FMH10_65b         Construct salt watermain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.3         UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.4         Excavate and construct storm drain pipework (192mL)/catchpil/manhole fm SMH505 to SMH1005A         Excavate and construct storm drain pipework (165mL)/manhole fm FMH25_30 to FMH25_10         Backfill pipework area and construct fresh watermain pipework (170mL)/chambers along CHC11         Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.4         Planned Completion of Underground Utilities/Services within Part 3 (Related to Section 5)	39 39 28 170 48 29 39 48 31 170 48 51 39 29 31 0	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 28-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 22-Jun-21 08-Oct-21 12-Nov-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 17-Dec-21 17-Dec-21 24-Jul-21 20-Aug-21 07-Oct-21 11-Nov-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 28-May-21 28-Aug-21 28-Aug-21 28-Aug-21 28-May-21 28-May-21 21-Aug-21 08-Oct-21 12-Nov-21	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 20-Aug-21 07-Oct-21 11-Nov-21 17-Dec-21	69 69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1020           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1020           KTD.PS3.1020           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS4.1000           KTD.PS4.1000           KTD.PS4.1010           KTD.PS4.1020           KTD.PS4.1020           KTD.PS4.1030           KTD.PS4.1040           KTD.PS4.1050           CONSTRUCTION OF PS4.1050	Backfill fm SMH905A to SMH905B         Construct fresh/sait watermain pipework (150mL)/chambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.3         Excavate and construct storm drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits         Construct sait watermain pipework (1171mL)/manholes fm FMH10_40 to FMH10_65b         Construct sait watermain pipework (1171mL)/manholes fm SMH10_65b         Construct sait watermain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.3         UNDERGROUND UTILITIES AT PEDESTRIAN STREETNO.4         Excavate and construct storm drain pipework (192mL)/catchpil/manhole fm SMH505 to SMH1005A         Excavate and construct storm drain pipework (165mL)/manhole fm FMH25_30 to FMH25_10         Backfill pipework area and construct fresh watermain pipework (170mL)/chambers along CHC11         Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.4         Planned Completion of Underground Utilities/Services within Part 3 (Related to Section 5)         EDESTRIAN STREET NO.2 WITHIN PART 4	39 39 28 170 48 29 39 48 31 170 48 51 39 29 31 0 336	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 28-May-21 22-Jun-21 21-Aug-21 08-Oct-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 24-Jul-21 20-Aug-21 07-Oct-21 11-Nov-21 11-Nov-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 28-May-21 28-Aug-21 28-Aug-21 12-Nov-21 28-May-21 28-May-21 28-May-21 21-Aug-21 08-Oct-21 12-Nov-20	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 17-Dec-21 17-Dec-21 17-Dec-21 24-Jul-21 20-Aug-21 07-Oct-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 24-Feb-24	69 69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1030           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1020           KTD.PS3.1030           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS4.1000           KTD.PS4.1000           KTD.PS4.1000           KTD.PS4.1020           KTD.PS4.1040           KTD.PS4.1040           KTD.PS4.1050           CONSTRUCTION OF PS4.1050           CONSTRUCTION OF PS4.1050           CONSTRUCTION OF PS4.1050           CONSTRUCTION OF PS4.1050	Backfill fm SMH905A b SMH905B           Construct fresh/sait watermain pipework (150mL)/chambers along CHC9           Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1           Backfill up to formation level for Pedestrian Street No.1           Backfill up to formation level for Pedestrian Street No.1           UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.3           Excavate and construct storm drain pipework (33mL) to Box Culvert B1           Backfill pipework area and construct catchpits           Construct sewer drain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts           Backfill up to formation level for Pedestrian Street No.3           UNDERGROUND UTILITIES AT PEDESTRIAN STREETNO.4           Excavate and construct storm drain pipework (192mL)/catchpit/manhole fm SMH505 to SMH1005A           Excavate and construct storm drain pipework (162mL)/stambner along CHC11/Construct road lighting drawpits and lay cable ducts           Backfill up to formation level for Pedestrian Street No.3           UNDERGROUND UTILITIES AT PEDESTRIAN STREETNO.4           Excavate and construct sewer drain pipework (165mL)/manhole fm FMH25_30 to FMH25_10           Backfill up to formation level for Pedestrian Street No.4           Planned Completion ol Volderground Utilities/Services within Part 3 (Related to Section 5)           EDESTRIAN STREET NO.2 WITHIN PART 4           Liaison/coordinate with adjacent projects (ncl Station Square, Housing	39           39           28           170           48           31           170           48           51           39           29           31           0           336           60	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-Jul-21 28-Jul-21 28-Jul-21 12-Nov-21 28-May-21 28-May-21 28-May-21 28-May-21 21-Aug-21 08-Oct-21 12-Nov-21 23-Nov-20 23-Nov-20	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 17-Dec-21 17-Dec-21 24-Jul-21 20-Aug-21 07-Oct-21 11-Nov-21 17-Dec-21 11-Nov-21 17-Dec-21 17-Dec-21 11-Jan-22 21-Jan-21	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 28-May-21 28-Jul-21 28-Jul-21 28-Aug-21 12-Nov-21 28-May-21 22-Jun-21 21-Aug-21 08-Oct-21 12-Nov-21 23-Nov-20 23-Nov-20	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 17-Dec-21 17-Dec-21 24-Jul-21 20-Aug-21 07-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 24-Feb-24 21-Jan-21	69 69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1020           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1030           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS3.1040           KTD.PS3.1040           KTD.PS3.1040           KTD.PS3.1040           KTD.PS4.1040           KTD.PS4.1010           KTD.PS4.1020           KTD.PS4.1030           KTD.PS4.1050           CONSTRUCTION OF PI           KTD.PS2.1000           KTD.PS2.1010	Backfill fm SMH905A to SMH905B         Construct fresh/sait watermain pipework (150mL/schambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.3         Excavate and construct storm drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits         Construct sait watermain pipework (171mL/manholes fm FMH10_40 to FMH10_65b         Construct sait watermain pipework (150mL/schambers along CHC10/Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.3         UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.4         Excavate and construct storm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct storm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct storm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct sterm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct sterm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct sterm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct sterm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct sterm drain pipework (1	39           39           28           170           48           29           39           48           31           170           48           51           39           29           31           0           336           60           28	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-Jul-21 28-Jul-21 28-Jul-21 12-Nov-21 28-May-21 28-May-21 28-May-21 22-Jun-21 21-Aug-21 08-Oct-21 12-Nov-20 23-Nov-20 22-Jan-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 17-Dec-21 17-Dec-21 17-Dec-21 24-Jul-21 20-Aug-21 07-Oct-21 11-Nov-21 17-Dec-21 11-Jan-22 21-Jan-21 26-Feb-21	11-Sep-21 29-Sep-21 18-Nov-21 28-May-21 28-May-21 28-May-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 28-May-21 28-May-21 28-May-21 21-Aug-21 08-Oct-21 12-Nov-20 23-Nov-20 23-Nov-20 22-Jan-21	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 17-Dec-21 17-Dec-21 17-Dec-21 24-Jul-21 20-Aug-21 07-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21 24-Feb-24 21-Jan-21 26-Feb-21	69 69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1020           KTD.PS1.1030           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1040           KTD.PS3.1040           KTD.PS3.1040           KTD.PS3.1040           KTD.PS4.1040	Backfill fm SMH905A to SMH905B         Construct fresh/sait watermain pipework (150mL)/chambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.3         Excavate and construct storm drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits         Construct sait watermain pipework (171mL)/manholes fm FMH10_40 to FMH10_65b         Construct sait watermain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.3         UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.4         Excavate and construct storm drain pipework (192mL)/catchpil/manhole fm SMH505 to SMH1005A         Excavate and construct sever drain pipework (192mL)/catchpil/manhole fm SMH505 to SMH1005A         Excavate and construct sever drain pipework (170mL)/chambers along CHC11         Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.4         Planned Completion of Underground Utilities/Services within Part 3 (Related to Section 5)         EDESTRIAN STREET NO.2 WITHIN PART 4         Lialson/coordinate with adjacent projects (Incl Station Square, Housing Sites and etc.) for interfacing issues	39           39           28           170           48           31           170           48           31           170           48           31           170           48           31           170           48           31           0           39           29           31           0           336           60           28           29	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 26-Jul-21 26-Jul-21 28-May-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 22-Jun-21 21-Aug-21 08-Oct-21 12-Nov-20 23-Nov-20 23-Nov-20 23-Nov-20 22-Jan-21 19-Feb-21	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 07-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 11-Jan-22 24-Jul-21 26-Feb-21 24-Mar-21	11-Sep-21 29-Sep-21 18-Nov-21 28-May-21 28-May-21 28-May-21 28-May-21 28-May-21 28-May-21 28-May-21 22-Jun-21 12-Nov-21 22-Jun-21 23-Nov-20 23-Nov-20 22-Jan-21 19-Feb-21	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 24-Jul-21 15-Oct-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 24-Jul-21 20-Aug-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 24-Feb-24 24-Feb-24 24-Jul-21 26-Feb-21 24-Mar-21	69 69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2					<b>-</b>						
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KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1020           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1000           KTD.PS3.1000           KTD.PS3.1000           KTD.PS3.1020           KTD.PS3.1030           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS4.1000           KTD.PS4.1010           KTD.PS4.1020           KTD.PS4.1030           KTD.PS4.1030           KTD.PS4.1050           CONSTRUCTION OF PI           KTD.PS2.1000           KTD.PS2.1010           KTD.PS2.1020           KTD.PS2.1030           KTD.PS2.1030           KTD.PS2.1050           KTD.PS2.1050           KTD.PS2.1050           KTD.PS2.1050	Backfill fm SMH905A to SMH905B         Construct fresh/sait watermain pipework (150mL/chambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITES AT PEDESTRIAN STREET NO.3         Excavate and construct storm drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits         Construct sait watermain pipework (150mL/chambers along CHC10/Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.3         UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.4         Excavate and construct sait watermain pipework (150mL/chambers along CHC10/Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.3         UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.4         Excavate and construct sform drain pipework (162mL/manhole fm SMH505 to SMH1005A         Excavate and construct sever drain pipework (162mL/manhole fm SMH505 to SMH1005A         Excavate and construct sever drain pipework (162mL/manhole fm SMH505 to SMH1005A         Excavate and construct sever drain pipework (162mL/manhole fm SMH505 to SMH1005A         Excavate and construct sever drain street No.4         Planned Completion of Underground Utilities/Services within Part 3 (Related to Section 5)         EDESTRIAN STREET NO.2 WITHIN PART 4	39           39           28           170           48           31           170           48           31           170           48           51           39           29           31           0           336           60           28           29           26           39           26           39           26           39           26           30           28           29           26           39           26           39           26           39           26           39           26           0           160	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 14-Sep-21 12-Nov-21 28-May-21 22-Jun-21 21-Aug-21 08-Oct-21 12-Nov-20 23-Nov	06 Aug-21 23 Aug-21 23 Aug-21 25 Sep-21 17 Dec-21 24 Jul-21 27 Aug-21 15 Oct-21 17 Dec-21 17 Dec-21 17 Dec-21 17 Dec-21 17 Dec-21 17 Jun-22 24 Jul-21 20 Aug-21 17 Jun-22 21 Jan-21 26 Feb-21 29 Aug-21 29 Aug-21 30 Jun-21 11 Jan-22	11-Sep-21 29-Sep-21 16-Nov-21 28-May-21 28-May-21 28-May-21 28-Jul-21 12-Nov-21 28-May-21 28-May-21 22-Jun-21 12-Nov-20 22-Jun-21 13-Apr-21 31-May-21 14-Aug-23	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 24-Jul-21 24-Jul-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 20-Aug-21 20-Aug-21 24-Feb-24 20-Aug-21 20-Aug-25	69 69 69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 2					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1020           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1000           KTD.PS3.1000           KTD.PS3.1000           KTD.PS3.1020           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS4.1030           KTD.PS4.1040           KTD.PS4.1020           KTD.PS4.1020           KTD.PS4.1030           KTD.PS4.1040           KTD.PS4.1050           CONSTRUCTION OF P1           KTD.PS2.1010           KTD.PS2.1020           KTD.PS2.1030           KTD.PS2.1030           KTD.PS2.1040           KTD.PS2.1050           KTD.PS2.1050           KTD.PS2.1060           KTD.PS2.1070           CONSTRUCTION OF R	Backfill fm SMI+905A to SMI+905B Construct fresh/salt watermain pipework (150mL/chambers along CHC9 Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1 Backfill up to formation level for Pedestrian Street No.1 Backfill up to formation level for Pedestrian Street No.1 Backfill up to formation level for Pedestrian Street No.1 UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.3 Excavate and construct storm drain pipework (33mL) to Box Culvert B1 Backfill pipework area and construct catchpits Construct sewer drain pipework (171mL/manholes fm FMIH10_40 to FMIH10_65b Construct sewer drain pipework (150mL/chambers along CHC10/Construct road lighting drawpits and lay cable ducts Backfill up to formation level for Pedestrian Street No.3 UNDERGROUND UTILITIES AT PEDES TRIAN STREET NO.4 Excavate and construct storm drain pipework (192mL/catchpil/manhole fm SMI+505 to SMI+1005A Excavate and construct sewer drain pipework (192mL/catchpil/manhole fm SMI+505 to SMI+1005A Excavate and construct sewer drain pipework (192mL/catchpil/manhole fm SMI+505 to SMI+1005A Excavate and construct sever drain pipework (192mL/catchpil/manhole fm SMI+505 to SMI+1005A Excavate and construct sever drain pipework (192mL/catchpil/manhole fm SMI+505 to SMI+1005A Excavate and construct sever drain pipework (192mL/catchpil/manhole fm SMI+505 to SMI+1005A Excavate and construct fresh watermain pipework (170mL/chambers along CHC11 Construct road lighting drawpits and lay cable ducts Backfill up to formation level for Pedestrian Street No.4 Planned Completion of Underground Utilities/Services within Part 3 (Related to Section 5) EDESTRIAN STREET NO.2 WITHIN PART 4 Lialson/coordinate with adjacent projects (Incl Station Square, Housing Sites and etc.) for interfacing issues Excavate and construct storm drain pipework (59mL)/catchpil/manholes from SMI+404 to SMI+402 to SMI+ Backfill m SMI+404 to SMI+402/Excavate and construct storm drain pipework (59mL/catchpil/manhole fm SMI+402 to SMI+ Backfill m SMI+402 to SMI+401/Excavate an	39           39           28           170           48           31           170           48           31           170           48           31           170           48           31           0           39           29           31           0           336           60           28           29           26           39           26           39           26           39           26           39           26           39           26           39           26           39           26           0           160           303	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 28-May-21 22-Jun-21 22-Jun-21 23-Nov-20 23-Nov-20 23-Nov-20 23-Nov-20 23-Nov-20 23-Nov-20 23-Nov-20 23-Nov-20 23-Nov-20 23-Jul-21 13-Apr-21 31-May-21 02-Jul-21 23-Deo-23	06-Aug-21 23-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 27-Aug-21 15-Oct-21 17-Dec-21 17-Dec-21 17-Dec-21 07-Oct-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 20-Aug-21 20-Aug-21 26-Feb-21 20-Aug-20 20-Aug	11-Sep-21 29-Sep-21 18-Nov-21 28-May-21 28-May-21 28-May-21 28-May-21 28-May-21 28-May-21 28-May-21 22-Jun-21 12-Nov-20 22-Jun-21 12-Nov-20 23-Nov-20 22-Jan-21 19-Feb-21 13-Apr-21 31-May-21 14-Aug-23 15-Mar-24	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 24-Jul-21 24-Jul-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 20-Aug-21 20-Aug-21 24-Feb-24 20-Aug-21 20-Aug-25	69 69 69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1030           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1030           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS4.1000           KTD.PS4.1010           KTD.PS4.1010           KTD.PS4.1010           KTD.PS4.1010           KTD.PS4.1020           KTD.PS4.1010           KTD.PS4.1020           KTD.PS4.1010           KTD.PS4.1010           KTD.PS4.1010           KTD.PS4.1020           KTD.PS4.1020           KTD.PS2.1010           KTD.PS2.1010           KTD.PS2.1010           KTD.PS2.1010           KTD.PS2.1020           KTD.PS2.1050           KTD.PS2.1050           KTD.PS2.1050           KTD.PS2.1070           CONSTRUCTION OF FRUCTION OF FRUCTION OF RM           KTD.RW.2090	Backfill fm SMH905A to SMH905B         Construct fresh/sait watermain pipework (150mL/jchambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.3         Excavate and construct storm drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits         Construct sealt watermain pipework (171mL/manholes fm FMH10_40 to FMH10_65b         Construct salt watermain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts         Backfill up to formation level for Pedestrian Street No.3         UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.4         Excavate and construct storm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct storm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct storm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct storm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct storm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct storm drain pipework (165mL/manhole fm SMH505 to SMH1005A         Excavate and construct fresh watermain pipework (170mL/ychambers along CHC11         Construct road lighting drawpits and lay cable ducts         Backfill uplo formation level for Pedestrian Street No	39           39           28           170           48           39           48           31           170           48           51           39           29           31           0           336           60           28           29           26           39           26           0           160           303           156	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 26-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 28-May-21 22-Jun-21 21-Aug-21 08-Oct-21 12-Nov-20 23-Nov-20 23-Nov-20 22-Jan-21 13-Apr-21 31-May-21 02-Jul-21 23-Dec-23 23-Dec-23	06-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 24-Jul-21 15-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 20-Aug-20-Aug-20-Aug-20-Aug-20-Aug-20-Aug-20-Aug-20-Aug-20-Aug-20-	11-Sep-21 29-Sep-21 18-Nov-21 28-May-21 28-May-21 28-May-21 28-Jul-21 14-Sep-21 12-Nov-21 28-May-21 28-May-21 22-Jun-21 12-Nov-21 23-Nov-20 23-Nov-20 23-Nov-20 23-Nov-20 23-Nov-20 19-Feb-21 17-Mar-21 13-Apr-21 31-May-21 5-Mar-24 15-Mar-24	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 24-Jul-21 24-Jul-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 24-Jul-21 20-Aug-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 24-Feb-24 20-Jun-21 20-Jun-21 20-Jun-21 20-Jun-21 20-Jun-25 23-Sep-24	69 69 69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 2 1 1 1					<b>-</b>						
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KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1020           KTD.PS3.1030           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS4.1020           KTD.PS2.1010           KTD.PS2.1020           KTD.PS2.	Backfill fm SMI-905A to SMI-905B         Construct fresh/salt watermain pipework (150mL/ychambers along CHC9         Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         Backfill up to formation level for Pedestrian Street No.1         Backfill pipework area and construct storm drain pipework (33mL) to Box Culvert B1         Backfill pipework area and construct catchpits         Construct sewer drain pipework (171mL/Ymanholes fm FMIH10_40 to FMIH10_65b         Construct set watermain pipework (150mL/chambers along CHC10/Construct road lighting drawpits and lay cable ducts         Backfill pipework area and construct catchpits         Construct set watermain pipework (150mL/Chambers along CHC10/Construct road lighting drawpits and lay cable ducts         Backfill pipework area and construct set No.3         UNDERGROUND UTLITIES AT PEDES TRIAN STREET NO.4         Excavate and construct set of the Pedestrian Street No.3         UNDERGROUND UTLITIES AT PEDES TRIAN STREET NO.4         Excavate and construct set of redestrian Street No.4         Planned Completion of Underground Utilities/Services within Part 3 (Related to Section 5)         EDESTRIAN STREET NO.2 WITHIN PART 4         Liaison/coordinate with adjacent projects (ind Station Square, Housing Sites and etc.) for Interfacing issues         Excavate and construct storm drain pipework (59mL)/catchpil/manholes from CH179 to CH15	39           39           28           170           48           39           48           31           170           48           51           39           29           31           0           336           60           28           29           26           39           26           0           303           156           147           312	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 28-May-21 14-Sep-21 14-Sep-21 12-Nov-21 28-May-21 28-May-21 28-May-21 21-Aug-21 08-Oct-21 12-Nov-20 23-Nov	06-Aug-21 23-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 27-Aug-21 15-Oct-21 11-Nov-21 17-Dec-21 20-Apr	11-Sep-21 29-Sep-21 18-Nov-21 28-May-21 28-May-21 28-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 22-Jun-21 21-Aug-21 21-Aug-21 23-Nov-20 23-Nov	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 24-Jul-21 24-Jul-21 15-Oct-21 15-Oct-21 15-Oct-21 11-Nov-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 24-Feb-24 20-Jun-21 20-Jun-21 20-Jun-21 20-Jun-25 23-Sep-24 30-Jun-25 27-Dec-23 27-Dec-25	69 69 69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					<b>-</b>						
KTD.PS1.1010           KTD.PS1.1020           KTD.PS1.1040           CONSTRUCTION OF           KTD.PS3.1000           KTD.PS3.1000           KTD.PS3.1010           KTD.PS3.1020           KTD.PS3.1020           KTD.PS3.1030           KTD.PS3.1040           CONSTRUCTION OF           KTD.PS4.1020           KTD.PS2.1010           KTD.PS2.1020           KTD.PS2.	Backfill fm SMI-905A to SMI-905B Construct fresh/salt watermain pipework (150mL/ychambers along CHC9 Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1 Backfill up to formation level for Pedestrian Street No.1 Backfill up to formation level for Pedestrian Street No.1 Backfill pipework area and construct storm drain pipework (33mL) to Box Culvert B1 Backfill pipework area and construct catchpits Construct sewer drain pipework (171mL/manholes fm FMIH10_40 to FMIH10_65b Construct sewer drain pipework (175mL/ychambers along CHC10/Construct road lighting drawpits and lay cable ducts Backfill up to formation level for Pedestrian Street No.3 UNDERGROUND UTLIFIES AT PEDES TRIAN STREET NO.4 Excavate and construct sourd for Pedestrian Street No.3 UNDERGROUND UTLIFIES AT PEDES TRIAN STREET NO.4 Excavate and construct sewer drain pipework (165mL/ymanhole fm SMI+505 to SMIH1005A Excavate and construct sewer drain pipework (165mL/manhole fm SMI+505 to SMIH1005A Excavate and construct sewer drain pipework (165mL/manhole fm SMI+505 to SMIH1005A Excavate and construct sewer drain pipework (165mL/manhole fm SMI+505 to SMIH1005A Excavate and construct sewer drain pipework (165mL/manhole fm SMI+505 to SMIH1005A Excavate and construct sewer drain pipework (165mL/manhole fm SMI+505 to SMIH1005A Excavate and construct sewer drain pipework (165mL/manhole fm SMI+405 to SMI+102 Destruit and pipework (59mL) / actchpil/manhole fm SMI+402 to SMI+ Backfill m SMI+402 to SMI+402/Excavate and construct storm drain pipework (59mL)/catchpil/manhole fm SMI+402 to SM	39           39           28           170           48           31           170           48           31           170           48           51           39           48           31           0           336           60           28           29           31           0           336           60           28           29           26           39           26           0           1600           303           156           147           312	22-Jun-21 09-Jul-21 24-Aug-21 28-May-21 28-May-21 28-May-21 28-Jul-21 28-Aug-21 14-Sep-21 12-Nov-21 28-May-21 22-Jun-21 28-May-21 22-Jun-21 08-Oct-21 12-Nov-20 23-Nov	06-Aug-21 23-Aug-21 23-Aug-21 25-Sep-21 17-Dec-21 27-Aug-21 15-Oct-21 17-Dec	11-Sep-21 29-Sep-21 18-Nov-21 28-May-21 28-May-21 28-Jul-21 28-Aug-21 12-Nov-21 28-Aug-21 12-Nov-21 28-May-21 22-Jun-21 21-Aug-21 08-Oct-21 12-Nov-20 22-Jan-21 08-Oct-21 13-Apr-21 31-May-21 13-Apr-21 31-May-21 15-Mar-24 15-Mar-24 08-Dec-22 08-Dec-22	29-Oct-21 15-Nov-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21 15-Oct-21 17-Dec-21 24-Feb-24 20-Apr-2-2 30-Jun-21 23-Dec-23 30-Jun-25 27-Dec-23 30-Jun-26 27-Dec-28 30-Jun-26 27-Dec-28 30-Jun-26 27-Dec-28 30-Jun-26 27-Dec-28 30-Jun-26 27-Dec-28 30-Jun-26 27-Dec-28 30-Jun-26	69         69           69         69           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           10         0           134         134	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					<b>-</b>						
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ID		Activity Name	Dur (d)	Early Start	Early	Late Start	Late Finish	Total	Calendar	020		2	021		2022			2023		
					Finish			Float		JASO	NDJI	MAMJ	JASON	DJFM	AMJJ	ASOND	JFMA	MJJ	ASOI	DJ
1	KTD.P67.1010	Backfill FWM and SWM from CH400 to CH350	21	13-Mar-24	10-Apr-24	26-Jan-26	21-Feb-26	555	1											
	KTD.P67.1020	Excavate/install FWM and SWM from CH350 to CH300 (50mL) and fittings and chambers	83	11-Apr-24	20-Jul-24	23-Feb-26	04-Jun-26	555	1											
	KTD.P67.1030	Backfill FWM and SWM from CH350 to CH300	21	22-Jul-24	14-Aug-24	05-Jun-26	30-Jun-26	555	1				1	1						1
	KTD.P67.1040	Planned Completion of Underground Utilities/Services within Parts 6A and 7 (Related to Section 2)	0		14-Aug-24		30-Jun-26	685	2									1		
CO	ONSTRUCTION OF ADDI	TIONAL COVER WALKWAY FP3 UNDER PMI 006	115	30-Nov-20	23-Apr-21	30-Nov-20	23-Apr-21	0												
К	KTD.FP3.1000	Land allocation/taking over from MTRC/LandsD for construction of additional footpath and cover walkway FP3	0	30-Nov-20		30-Nov-20		0	2		7				1					i
K	KTD.FP3.1010	Site clearence and formation works (1 team)	18	30-Nov-20	19-Dec-20	30-Nov-20	19-Dec-20	0	1		-		1		1					1
к	KTD.FP3.1020	Construction of storm drain system (incl. u-channel and catch pits, 15m3 conc., 1 team)	18	07-Dec-20	29-Dec-20	07-Dec-20	29-Dec-20	0	1									111		
к	KTD.FP3.1030	Implement TTA for connection of storm drain system to existing manhole	1	30-Dec-20	30-Dec-20	07-Apr-21	07-Apr-21	76	1		5	1	1	1	1			1		1
к	KTD.FP3.1040	Remove pavement, excavate for drain pipe laying and cast concrete surround (10m-L, 5.4m3 exca, 2m3 conc, 1 team)	8	31-Dec-20	09-Jan-21	08-Apr-21	16-Apr-21	76	1		-		L							
K	KTD.FP3.1050	Backfilling and reinstatement of existing pavement (5m2, 1 team)	5	11-Jan-21	15-Jan-21	17-Apr-21	22-Apr-21	76	1		L=1									1
K	KTD.FP3.1060	Site clearenc and remove TTA to resume traffic	1	16-Jan-21	16-Jan-21	23-Apr-21	23-Apr-21	76	1		4				1					E.
к	KTD.FP3.1070	Placing concrete blocks foundation and erection of site hoarding (45m-L, 1 team)	6	21-Dec-20	29-Dec-20	21-Dec-20	29-Dec-20	0	1		E.	8	T T	1	1					1
K	KTD.FP3.1080	Construction of foundation for footpath cover (230m3 conc, 1 team)	12	21-Dec-20	06-Jan-21	21-Dec-20	06-Jan-21	0	1			8			1					
к	KTD.FP3.1090	Installation of steel frame of footpath cover, site hoarding and lighting system	15	30-Dec-20	16-Jan-21	30-Dec-20	16-Jan-21	0	1		-									
К	KTD.FP3.1100	Placing sub-base and construction of footpath pavement (45m3 sub-base, 35m3 conc, 1 team)	15	30-Dec-20	16-Jan-21	30-Dec-20	16-Jan-21	0	1		4				1			1		
к	KTD.FP3.1104	Construction/Installation for additional works for FP3 under CE028	76	18-Jan-21	23-Apr-21	18-Jan-21	23-Apr-21	0	1		+		1 1	1	1					1
K	KTD.FP3.1105	Provision of power supply by CLP for lighting system at FP3 (CE028)	76	18-Jan-21	23-Apr-21	18-Jan-21	23-Apr-21	0	1		4									
к	KTD.FP3.1110	Planned Completion of Additional Footpath and Cover Walkway FP3 under PMI 006	0		23-Apr-21		23-Apr-21	0	2		1	-	1		1			1		1
PRO.	JECT ESTABLISHMENT	r works	1450	12-Jan-22	31-Dec-25	27-Sep-23	30-Jun-26	181	2		l			-				1		1
KTD	D.EW.1000	Establishment works for all landscape softworks (except Parts 3, 4 and 6)	365	19-Jul-23	17-Jul-24	28-Dec-23	26-Dec-24	162	2			1	1 1	1	1			-		
KTD	D.EW.1010	Establishment works for landscape softworks within Part 3 (Subj to excision within 416 days)	365	21-Feb-23	20-Feb-24	26-Feb-24	24-Feb-25	370	2				1		1			-	-	-
KTD	D.EW.1020	Establishment works for landscape softworks within Part 4 (Subj to excision within 244 days)	365	12-Jan-22	11-Jan-23	26-Feb-24	24-Feb-25	775	2		1		†	-			1	1		1
KTD	D.EW.1030	Establishment works for landscape softworks within Part 6	365	01-Jan-25	31-Dec-25	01-Jul-25	30-Jun-26	181	2				ļļ							
KTD	D.EW.1040	Establishment works for landscape softworks under Section 1	365	27-Sep-23	25-Sep-24	27-Sep-23	25-Sep-24	0	2		1	1			1		1		-	
KTD	D.EW.1050	Planned Contract Completion Date	0		31-Dec-25		30-Jun-26	181	2			1	L L	1				1	1	ł

$\nabla$	♥ Milestone	Planned Work	Rev. 40	Date
~			ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area	30-Nov-2023
	<ul><li>Critical Milestone</li><li>Critical Remaining Work</li></ul>	Summary	WORKS PROGRAMME	29-Dec-23
			(Page 10 of 10)	



Revision	Checked	Approved
Works Programme	HL	RL
Works Programme	HL	RL

# Appendix C – Environmental monitoring schedules

# Contract No. EDO 2/2020 Environmental Monitoring at Kai Tak Development – Stage 5B infrastructure works at the former north apron area Environmental Monitoring and Weekly Site Inspection Schedule for December 2023

December 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	2
3	4	5	6	7 Weekly Site Inspection 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	8	9
10	11	12	13 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	14 Weekly Site Inspection	15	16
17	18	19 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	20	21 Weekly Site Inspection	22	23 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3
24	25	26	27	28 Weekly Site Inspection + SSMC meeting	29 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	30
31						

Air Quality Monitoring Station AM2(A) Ng Wah Catholic Secondary School AM3 - Sky Tower **Noise Quality Monitoring Station** M4(A) - Le Billionnaire M5(A) - Prince Ritz

# Contract No. EDO 2/2020 Environmental Monitoring at Kai Tak Development – Stage 5B infrastructure works at the former north apron area Tentative Environmental Monitoring and Weekly Site Inspection Schedule for January 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4 Weekly Site Inspection 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	5	6
7	8	9	10 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	11 Weekly Site Inspection	12	13
14	15	16 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	17	18 Weekly Site Inspection	19	20
21	22 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	23	24	25 Weekly Site Inspection + SSMC meeting	26	27 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3
28	29	30	31			

# January 2024

NOTE:

1) Site inspection schedule and Impact monitoring schedule may be changed due to unforeseen circumstance (e.g. adverse weather).

# Air Quality Monitoring Station

AM2(A) Ng Wah Catholic Secondary School AM3 - Sky Tower **Noise Quality Monitoring Station** M4(A) - Le Billionnaire M5(A) - Prince Ritz

# **Appendix D – Photographic records**

# Impact Air Quality Monitoring

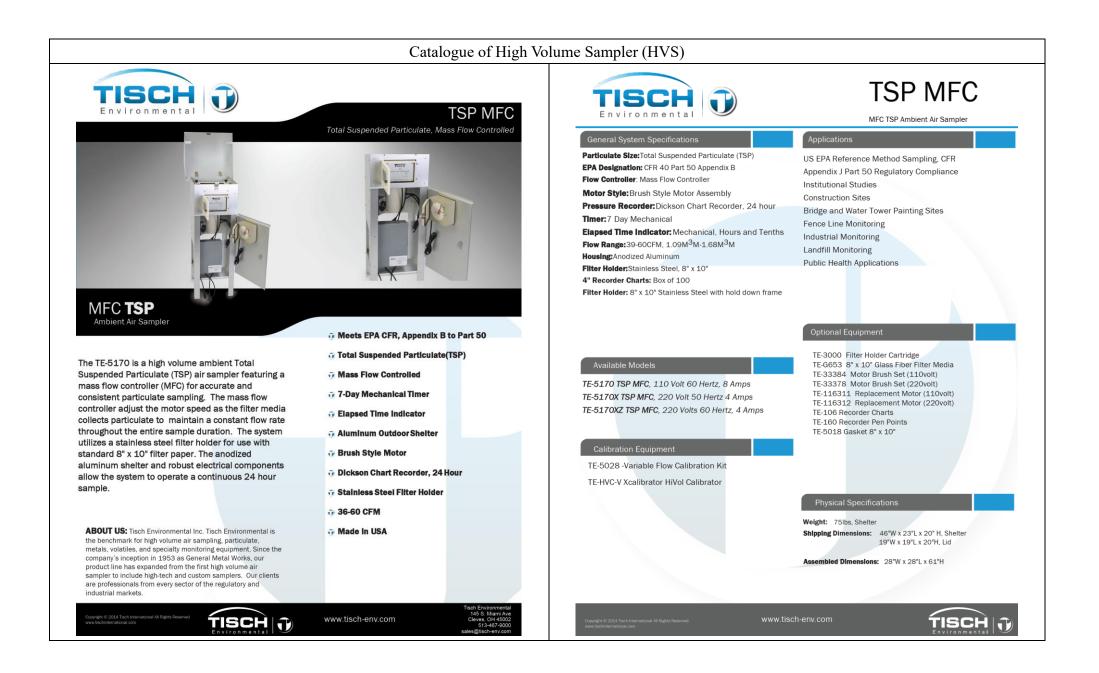


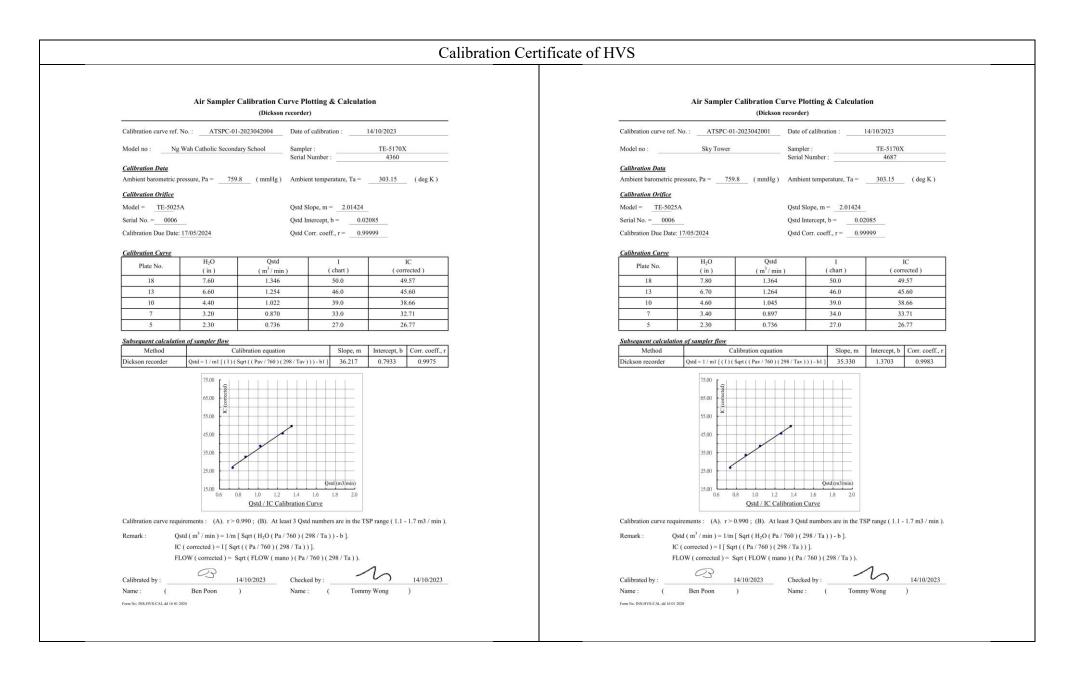
Weather Station at the rooftop of Ng Wah Catholic Secondary School

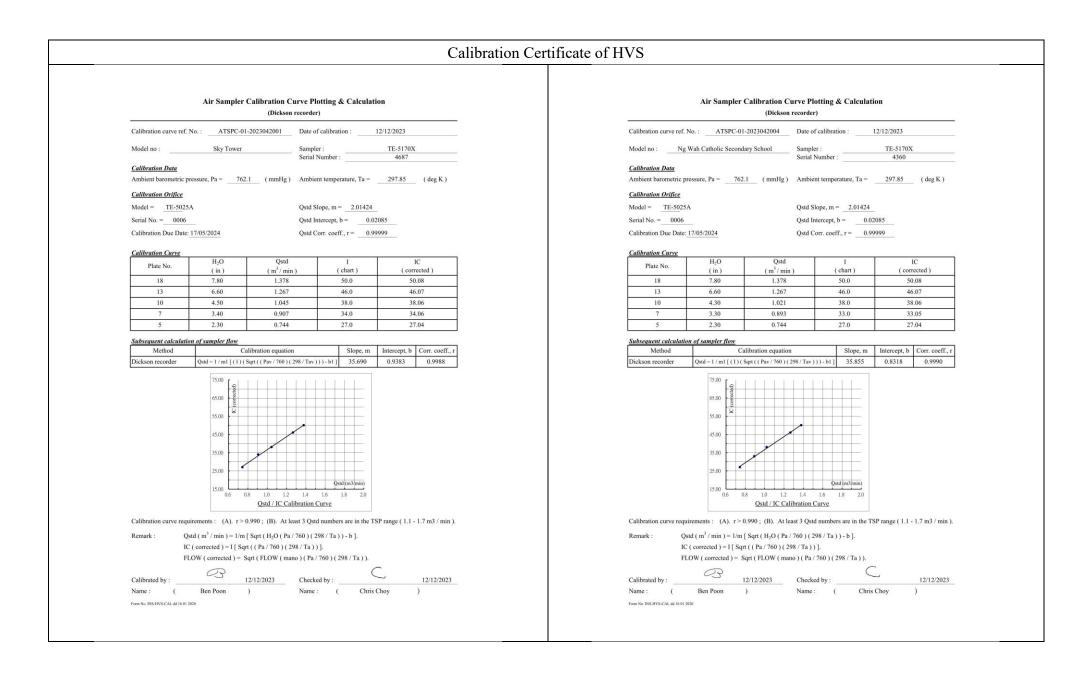
# Impact Noise Monitoring

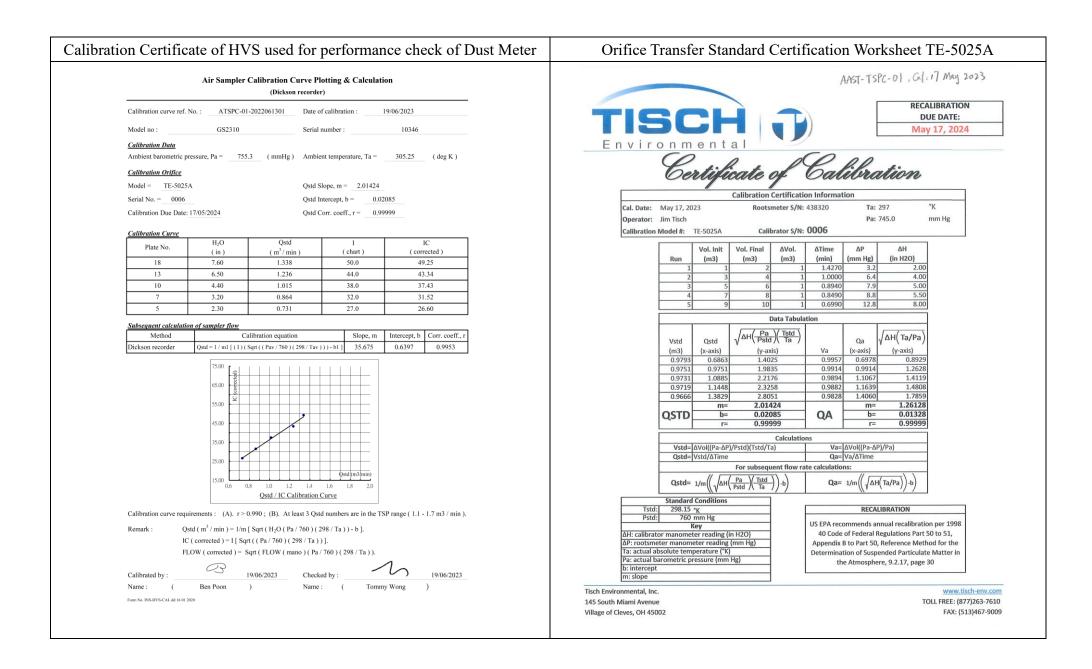


Appendix E – Calibration certificates, catalogue of air quality monitoring equipment









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The SidePak AM510 monitor's easy-to-read display shows your

data as both real-time aerosol mass-concentration and 8-hour

time-weighted average (TWA). With its convenient data logging

The easy-to-use TrakPro Data Analysis Software lets you create

effective graphs and reports.

and long battery life, the AM510 is also ideal for extended sampling.

# Catalogue of Dust Meter (TSI Sidepak AM510)

### **User Friendly**

- + Small, lightweight and quiet to maximize worker acceptance + Rugged design with secure belt clip + Easy-to-understand user interface with only four keys + Lockable keypad prevents tampering while sampling + User-adjustable sample flow rate + Define, label and store multiple calibration constants + Easy-to-read LCD display
- + Convenient, threaded tripod socket accommodates area sampling

### Advanced Features

- + Smart Battery Management System provides precise run time information, maximizes battery capacity and speeds charging + Integrated pump allows use of size-selective aerosol
- inlet conditioners + Built-in impactors let you choose "none," 1.0, 2.5 or
- 10-micron cut off
- + 10-mm Dorr-Oliver cyclone for respirable sampling
- + Display shows real-time concentrations (mg/m<sup>3</sup>) and
- "on-the-fly" TWA as you data log
- + Display statistics: max, min and average readings, elapsed time and 8-hour TWA

#### **Quick and Easy Reports**

- + Convenient preprogramming for occupational exposure sampling + Data log for long periods and store multiple tests + Analyze data, print graphs and create reports with TrakPro Data Analysis Software
- + USB port lets you conveniently connect to your computer

### Power to Spare

+ Long-lasting NiMH rechargeable battery packs eliminate "memory" issues + Choice of rechargeable NiMH smart battery packs or AA-cell pack

#### Model AM510 SidePak Personal Aerosol Monitor

Sensitivity Sensor Type
Aerosol Concentration Range
Particle Size Range Minimum Resolution Zero stability
Temperature Coefficient

Flow Rate

Storage Range

Range

User-adiustable, 0.7 to 1.8

90° light scattering,

670 nm laser diode

0.001 to 20 mg/m<sup>3</sup>

A1 test dust)

0.001 mg/m<sup>3</sup>

(calibrated to respirable

fraction of ISO 12103-1,

0.1 to 10 micrometer (µm)

±0.001 mg/m³ over 24 hours

using 10-second time-constant

Approximately +0.0005 mg/m<sup>3</sup> per

°C (for variations from temperature

at which instrument was last zeroed)

4.2 x 3.7 x 2.8 in. (106 x 92 x 70 mm)

liters/min (L/min)

**Temperature Range** Operating Range 32 to 120°F (0 to 50°C) -4 to 140°F (-20 to 60°C)

**Operational Humidity** 0 to 95% RH, non-condensing

Time Constant (LCD display) Jser-adjustable, 1 to 60 seconds Range

**Data Logging** Approx. 31.000 Data Points Logging Interval User-adjustable, 1 second to 1 hour

### **User-Select Calibration Factors**

Factory Setting 1.0 (non-adjustable) User-defined Settings , with user-defined labels 0.1 to 10.0, user-adjustable

#### Physical External Dimensions

Range

	with 801723, 801724, 801729 or
	801743 battery
	5.1 x 3.7 x 2.8 in. (130 x 92 x 70 mm)
	with 801708, 801722, 801728,
	801735, or 801736 battery
Weight	16 oz (0.46 kg) with 801723, 801724,
	801729 or 801743 battery
	19 oz (0.54 kg) with 801708, 01722,
	801728, 801735, or 801736 battery
Display	2 line x 12 character LCD
Tripod Socket	1/4-20 female thread

## Power Supply/Charger (P/N 2613210)

100 to 240 VAC, 50 to 60 Hz Input Voltage Range Output Voltage 9 VDC @ 1.0 A

#### Maintenance Factory Clean/Calibrate

Recommended annually User Zero Calibration Before each use User Flow Calibration As needed

## **Communications Interface**

USB 1.1 Type Connector, Instrument USB Mini-B (socket)

#### Minimum Computer Requirements for TrakPro<sup>™</sup> Data Analysis Software

Universal Serial Bus (USB) v 1.1 or higher Microsoft Windows® XP, or 7 (32-bit or 64-bit) operating systems

### **Battery Performance**

Communications Port

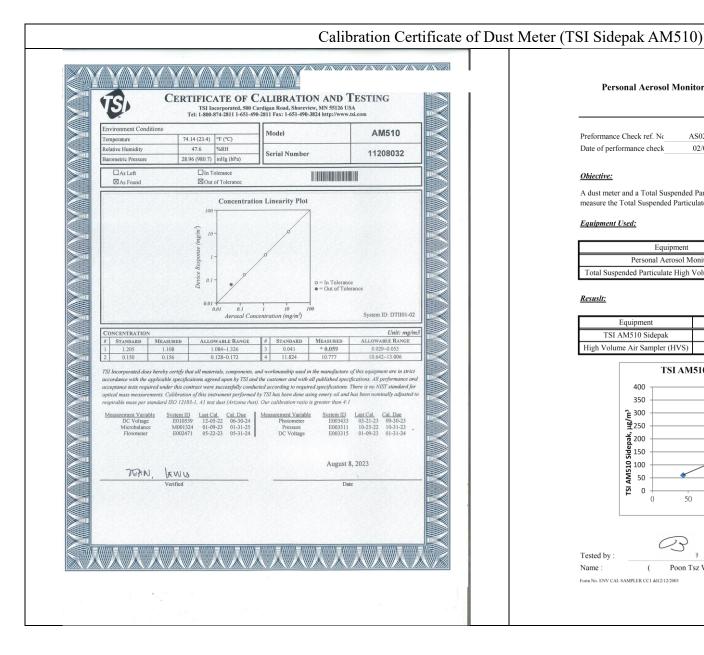
Operating System

Battery Options	Charge Time (hrs)*	Intrinsic Safety Rating	Run Time (hrs @ 1.7 L/min)
1600 mAH NiMH Pack, 4.8 V (P/N 801723)	3.0	No	7.1
1650 mAH NiMH Pack, 4.8V (P/N 801724, 801729 or 801743)	3.5	CSA**	7.5
2700 mAH NiMH Pack, 4.8 V (P/N 801722 or 801728)	5.5	No	12.0
2700 mAH NiMH Pack, 4.8 V (P/N 801735)	5.5	No	12.0
6-Cell AA-size Alkaline Pack*** (P/N 801708 or 801736 with six user-supplied AA cells)	N/A	No	22.5

\*Of a fully depleted battery \*\*All dust plugs and dust gaskets must be installed. \*\*\*Using Energizer AA-size, E91 alkaline batteries.

#### **Battery Level Indicator**

The Smart Battery Management System™ technology utilizes a built-in "gauge" in the SidePak™ battery packs. The gauge monitors battery capacity and calculates run time information by dividing capacity of the battery (mAH) by the instantaneous current consumed by the instrument (mA). This calculation is correct for current operating conditions and can change due to current (mA) consumption or changes in battery capacity.



Personal Aerosol Monitor Performance check with High Volume Sampler

Preformance Check ref. No	AS0220602-1	Report Issue Date	02/06/2023	
Date of performance check	02/06/2023			

## Objective:

A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

## Equipment Used:

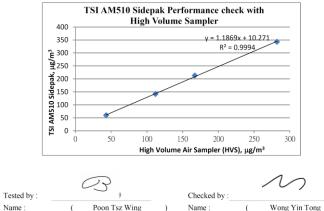
Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11208032
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

## <u>Resustt:</u>

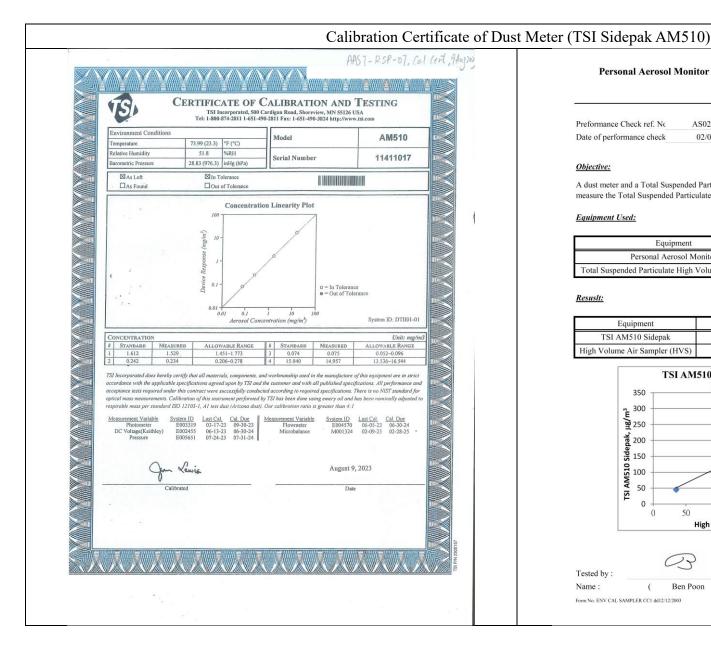
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Form No. ENV CAL SAMPLER CC1 dd12/12/2003

Equipment	Measurement Result, µg/m3			
TSI AM510 Sidepak	60	142	213	343
High Volume Air Sampler (HVS)	43	112	167	282



Name : Wong Yin Tong (



Personal Aerosol Monitor Performance check with High Volume Sampler

Preformance Check ref. No AS0220602-5 Report Issue Date Date of performance check 02/06/2023

02/06/2023

## **Objective:**

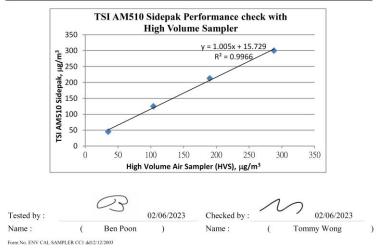
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

## Equipment Used:

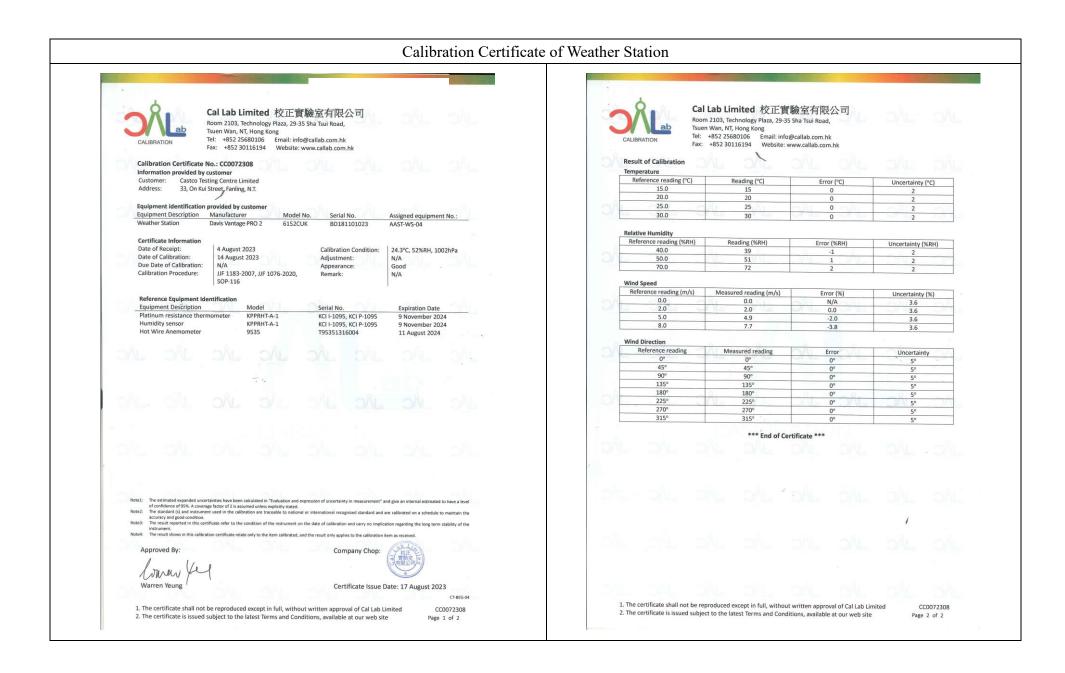
Equipment	Manufacturer and Model	Serial Number	
Personal Aerosol Monitor	TSI AM510 Sidepak	11411017	
Total Suspended Particulate High Volume Air Sampler	GS2310	10346	

## Resust:

Equipment	Measurement Result, µg/m <sup>3</sup>			
TSI AM510 Sidepak	45	125	213	300
High Volume Air Sampler (HVS)	35	104	190	288



#### Catalogue of Weather Station 7 Cabled Vantage Pro2™ 6152C Vantage Pro2 & Vantage Pro2 Plus<sup>™</sup> Stations 6162C Ultra Violet (UV) Radiation Index (requires UV sensor) Vantage Pro2<sup>™</sup> Range ..... 0 to 16 Index High)) The Vantage Pro2<sup>™</sup> (# 6152C) and Vantage Pro2<sup>™</sup> Plus (# 6162C) cabled weather stations include two components; the Integrated Sensor Suite (ISS) and the console. The ISS contains the sensor interface module (SIM), rain collector. an anemometer, and a passive radiation shield. The Vantage Pro2 console provides the user interface, data display, and calculations. The Vantage Pro2 Plus weather station includes two additional sensors that are optional on the Vantage Pro2 and purchased separately: the UV Sensor and the Solar Radiation Sensor. The console and ISS are Current Graph Data..... Instant Reading and Hourly Average; Daily, Monthly High powered by an AC-power adapter connected to the console. Batteries can be installed in the console to provide a backup power supply. Use WeatherLink<sup>®</sup> to let your weather station interface with a computer, log data, and upload weather information to the Internet. The 6152C and 6162C models rely on passive shielding to reduce solar-radiation induced temperature errors in the outside temperature sensor readings. Wind Wind Chill (Calculated) Integrated Sensor Suite (ISS) the nearest 1°C console and ISS Equation Used ...... Osczevski (1995) (adopted by US NWS in 2001) Variables Used ..... Avg. Wind Speed Current Display Data ..... Instant Calculation Maximum displayable wind decreases as the length of cable increases. at 140' (42 m) of cable, the maximum wind speed displayed is 135 mph (60 Current Graph Data ...... Instant Calculation; Hourly, Daily and Monthly Low m/s); at 240' (73 m), the maximum wind speed displayed is 100 mph (34 m/s). Historical Graph Data. . . . . . . . . . . . . . . . Hourly, Daily and Monthly Lows Wind Speed Sensor ...... Solid state magnetic sensor Wind Direction Sensor ...... Wind vane with potentiometer Wind Direction (214 cm<sup>2</sup>) collection area Relative Humidity Sensor Type ...... Film capacitor element Accuracy ..... ±3° Update Interval ..... 2.5 to 3 seconds Sensor Inputs Current Graph Data ...... Instant Reading (user adjustable); 10-min. Dominant; Hourly, Daily, Monthly Dominant Historical Graph Data. . . . . . . . . . . . . . . . . Past 6 10-min. Dominants on compass rose only; Hourly, Daily, ISS Dimensions(not including anemometer or bird spikes): Monthly Dominants Vantage Pro2 with Standard Rad Shield ...... 14.0" x 9.4" x 14.5" (356 mm x 239 mm x 368 mm) Wind Speed Vantage Pro2 with Fan-Asprated Rad Shield..... 20.8" x 9.4" x 16.0" (528 mm x 239 mm x 406 mm) other units are converted from mph and rounded to nearest 1 km/hr, 0.1 Vantage Pro2 Plus with Standard Rad Shield ..... 14.3" x 9.7" x 14.5" (363 mm x 246 mm x 368 mm) m/s or 1 knot Vantage Pro2 Plus with Fan-Aspirated Rad Shield ..... 21.1" x 9.7" x 16.0" (536 mm x 246 mm x 406 mm) Update Interval ..... Instant Reading: 2.5 to 3 seconds, 10-minute Average: 1 minute length of cable from anemometer to ISS increases.) Current Display Data ..... Instant Current Graph Data ...... Instant Reading; 10-minute and Hourly Average; Hourly High; Daily, Davis Instruments 3465 Diablo Ave., Hayward, CA 94545-2778 USA (510) 732-9229 - FAX (510) 670-0589 - sales@davisInstruments.com - www.davisinstruments.com Monthly and Yearly High with Direction of High DS6152C, 6162C Rev. W 12/7/18 Highs with Direction of Highs



# Appendix F – Weather information

# General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)	Mean Relative Humidity (%)
01/12/2023	19.6	23.2	0	69
02/12/2023	18.2	21.5	0	70
03/12/2023	20.1	23.3	Trace	73
04/12/2023	20.5	24.4	Trace	76
05/12/2023	19.7	24.1	0	73
06/12/2023	19.9	22.5	Trace	67
07/12/2023	18.4	25.1	0	47
08/12/2023	19.2	24	0	68
09/12/2023	21.6	24.9	0	80
10/12/2023	22.5	26.3	Trace	80
11/12/2023	22.3	27.3	0.3	85
12/12/2023	22.3	28.7	0.3	80
13/12/2023	21.6	23.2	Trace	82
14/12/2023	21.7	24.6	Trace	81
15/12/2023	23.2	26.9	0	81
16/12/2023	13.5	23.9	0.1	71
17/12/2023	11.4	15.2	0	69
18/12/2023	14.8	19	Trace	80
19/12/2023	14.7	19	0	75
20/12/2023	10.8	15.6	0	65
21/12/2023	9.8	12.3	0	65
22/12/2023	8.6	12.3	0	51
23/12/2023	8.1	13.3	0.2	58
24/12/2023	10.1	16.5	0	52
25/12/2023	12.1	18.2	0	51
26/12/2023	14.5	19.6	0	63
27/12/2023	16.6	21.8	Trace	62
28/12/2023	18.2	23.6	Trace	73
29/12/2023	18.3	21	0	79
30/12/2023	18.3	23	Trace	70
31/12/2023	19	25.7	0	73

NOTE1: The above weather information was obtained from manned weather station of Hong Kong Observatory. NOTE2: Trace means rainfall less than 0.12 mm

https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2023&m=12

Kai Tal	k Runway	Park	Inform	ation
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Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)
01/12/2023	19.6	24.2
02/12/2023	18.3	21.6
03/12/2023	20.2	23.9
04/12/2023	20.3	25.1
05/12/2023	19.6	24.5
06/12/2023	19.7	23.5
07/12/2023	18.0	26.0
08/12/2023	18.8	25.0
09/12/2023	21.7	25.5
10/12/2023	22.5	27.4
11/12/2023	22.3	26.6
12/12/2023	22.3	29.9
13/12/2023	21.5	22.8
14/12/2023	21.3	24.6
15/12/2023	22.9	26.5
16/12/2023	13.9	23.9
17/12/2023	12.0	15.3
18/12/2023	14.9	19.1
19/12/2023	14.5	20.6
20/12/2023	10.4	26.6
21/12/2023	9.8	13.0
22/12/2023	9.0	13.0
23/12/2023	7.6	15.1
24/12/2023	9.6	18.6
25/12/2023	11.4	20.3
26/12/2023	14.6	20.3
27/12/2023	17.3	22.6
28/12/2023	18.3	24.0
29/12/2023	18.1	21.2
30/12/2023	18.6	23.3
31/12/2023	18.6	25.7

NOTE1: The above weather information was obtained from manned weather station of Kai Tak Runway Park.

https://i-lens.hk/hkweather/history\_chart.php?date=2023-12-01&chart\_type=DG\_TEMP

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
1/12/2023	0:00	0.4	135	2/12/2023	0:00	0.4	67.5	3/12/2023	0:00	1.8	270	4/12/2023	0:00	1.3	247.5
1/12/2023	1:00	0.4	112.5	2/12/2023	1:00	0.9	90	3/12/2023	1:00	1.8	247.5	4/12/2023	1:00	0.9	247.5
1/12/2023	2:00	0.4	112.5	2/12/2023	2:00	0.9	112.5	3/12/2023	2:00	2.2	270	4/12/2023	2:00	1.3	247.5
1/12/2023	3:00	0.4	112.5	2/12/2023	3:00	0.9	67.5	3/12/2023	3:00	1.3	337.5	4/12/2023	3:00	1.8	247.5
1/12/2023	4:00	0.4	135	2/12/2023	4:00	0.4	135	3/12/2023	4:00	0.9	270	4/12/2023	4:00	0.9	135
1/12/2023	5:00	0.4	112.5	2/12/2023	5:00	0.9	112.5	3/12/2023	5:00	0.4	315	4/12/2023	5:00	0.9	112.5
1/12/2023	6:00	0.4	112.5	2/12/2023	6:00	0.9	90	3/12/2023	6:00	0	337.5	4/12/2023	6:00	0.9	247.5
1/12/2023	7:00	0.9	22.5	2/12/2023	7:00	0.9	90	3/12/2023	7:00	0.4	22.5	4/12/2023	7:00	0.4	247.5
1/12/2023	8:00	1.3	45	2/12/2023	8:00	0.9	112.5	3/12/2023	8:00	0.4	22.5	4/12/2023	8:00	0.4	90
1/12/2023	9:00	0	22.5	2/12/2023	9:00	0.4	112.5	3/12/2023	9:00	0.4	22.5	4/12/2023	9:00	0.9	90
1/12/2023	10:00	0	22.5	2/12/2023	10:00	0.4	112.5	3/12/2023	10:00	0.4	22.5	4/12/2023	10:00	0.9	315
1/12/2023	11:00	0	45	2/12/2023	11:00	0.4	112.5	3/12/2023	11:00	0.9	90	4/12/2023	11:00	0.9	337.5
1/12/2023	12:00	0.4	45	2/12/2023	12:00	0.4	112.5	3/12/2023	12:00	0.9	315	4/12/2023	12:00	1.3	337.5
1/12/2023	13:00	0.4	45	2/12/2023	13:00	0.4	67.5	3/12/2023	13:00	0.9	337.5	4/12/2023	13:00	0.9	337.5
1/12/2023	14:00	0.4	0	2/12/2023	14:00	0.9	67.5	3/12/2023	14:00	1.3	337.5	4/12/2023	14:00	0.4	337.5
1/12/2023	15:00	0.4	22.5	2/12/2023	15:00	1.3	292.5	3/12/2023	15:00	0.9	270	4/12/2023	15:00	0	337.5
1/12/2023	16:00	0.4	67.5	2/12/2023	16:00	1.3	337.5	3/12/2023	16:00	0.4	315	4/12/2023	16:00	0.4	337.5
1/12/2023	17:00	0.9	112.5	2/12/2023	17:00	1.3	315	3/12/2023	17:00	0	337.5	4/12/2023	17:00	0	337.5
1/12/2023	18:00	0.9	135	2/12/2023	18:00	0.9	22.5	3/12/2023	18:00	0.4	22.5	4/12/2023	18:00	0	337.5
1/12/2023	19:00	0.9	112.5	2/12/2023	19:00	0.9	67.5	3/12/2023	19:00	0.9	22.5	4/12/2023	19:00	0	337.5
1/12/2023	20:00	0.9	112.5	2/12/2023	20:00	0.9	90	3/12/2023	20:00	0	22.5	4/12/2023	20:00	0.9	270
1/12/2023	21:00	0.9	112.5	2/12/2023	21:00	1.3	90	3/12/2023	21:00	0	22.5	4/12/2023	21:00	0.4	270
1/12/2023	22:00	0.9	112.5	2/12/2023	22:00	1.3	90	3/12/2023	22:00	1.3	135	4/12/2023	22:00	0.4	270

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
1/12/2023	23:00	1.1	90	2/12/2023	23:00	1.3	90	3/12/2023	23:00	0.4	90	4/12/2023	23:00	0.9	270
5/12/2023	0:00	0.9	45	6/12/2023	0:00	0.9	157.5	7/12/2023	0:00	0.9	337.5	8/12/2023	0:00	1.3	337.5
5/12/2023	1:00	1.8	45	6/12/2023	1:00	0.4	45	7/12/2023	1:00	0.9	45	8/12/2023	1:00	0.9	22.5
5/12/2023	2:00	1.8	22.5	6/12/2023	2:00	0.9	67.5	7/12/2023	2:00	0.9	270	8/12/2023	2:00	0.9	270
5/12/2023	3:00	1.8	22.5	6/12/2023	3:00	0.9	22.5	7/12/2023	3:00	0.4	67.5	8/12/2023	3:00	0.9	45
5/12/2023	4:00	1.8	22.5	6/12/2023	4:00	1.3	22.5	7/12/2023	4:00	0.4	202.5	8/12/2023	4:00	0.9	45
5/12/2023	5:00	1.8	22.5	6/12/2023	5:00	0.9	337.5	7/12/2023	5:00	0.4	67.5	8/12/2023	5:00	0.9	22.5
5/12/2023	6:00	1.8	22.5	6/12/2023	6:00	0.9	247.5	7/12/2023	6:00	0.4	112.5	8/12/2023	6:00	0.9	292.5
5/12/2023	7:00	1.3	22.5	6/12/2023	7:00	0.4	247.5	7/12/2023	7:00	1.8	45	8/12/2023	7:00	1.8	22.5
5/12/2023	8:00	1.8	270	6/12/2023	8:00	0.4	247.5	7/12/2023	8:00	0.9	90	8/12/2023	8:00	1.3	22.5
5/12/2023	9:00	0.9	337.5	6/12/2023	9:00	0.4	225	7/12/2023	9:00	0.9	67.5	8/12/2023	9:00	1.8	315
5/12/2023	10:00	0.4	90	6/12/2023	10:00	0.4	247.5	7/12/2023	10:00	1.3	22.5	8/12/2023	10:00	0.4	135
5/12/2023	11:00	0.4	22.5	6/12/2023	11:00	0.4	247.5	7/12/2023	11:00	0.9	135	8/12/2023	11:00	0.4	112.5
5/12/2023	12:00	0.4	22.5	6/12/2023	12:00	0.4	247.5	7/12/2023	12:00	0.4	247.5	8/12/2023	12:00	0.9	22.5
5/12/2023	13:00	0.9	157.5	6/12/2023	13:00	0.9	157.5	7/12/2023	13:00	0.4	247.5	8/12/2023	13:00	0.9	45
5/12/2023	14:00	0.4	157.5	6/12/2023	14:00	1.3	292.5	7/12/2023	14:00	0.9	157.5	8/12/2023	14:00	0.9	337.5
5/12/2023	15:00	0.4	45	6/12/2023	15:00	0.9	247.5	7/12/2023	15:00	0.9	157.5	8/12/2023	15:00	0.9	45
5/12/2023	16:00	0.4	90	6/12/2023	16:00	0.4	247.5	7/12/2023	16:00	0.9	315	8/12/2023	16:00	0.9	45
5/12/2023	17:00	0.9	135	6/12/2023	17:00	0.4	225	7/12/2023	17:00	0.4	315	8/12/2023	17:00	1.8	112.5
5/12/2023	18:00	0.9	112.5	6/12/2023	18:00	0.4	247.5	7/12/2023	18:00	0.9	315	8/12/2023	18:00	1.3	67.5
5/12/2023	19:00	0.4	337.5	6/12/2023	19:00	0.4	247.5	7/12/2023	19:00	0.9	247.5	8/12/2023	19:00	1.8	22.5
5/12/2023	20:00	0.4	270	6/12/2023	20:00	0.4	247.5	7/12/2023	20:00	0.4	247.5	8/12/2023	20:00	0.4	112.5
5/12/2023	21:00	0.4	225	6/12/2023	21:00	0.9	157.5	7/12/2023	21:00	0.9	22.5	8/12/2023	21:00	0.4	22.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
5/12/2023	22:00	1.8	90	6/12/2023	22:00	1.3	157.5	7/12/2023	22:00	0.4	45	8/12/2023	22:00	0.4	67.5
5/12/2023	23:00	0.4	45	6/12/2023	23:00	1.3	157.5	7/12/2023	23:00	0.9	112.5	8/12/2023	23:00	0.4	112.5
9/12/2023	0:00	1.3	112.5	10/12/2023	0:00	0.9	112.5	11/12/2023	0:00	0.4	247.5	12/12/2023	0:00	2.2	292.5
9/12/2023	1:00	0.4	112.5	10/12/2023	1:00	0.9	112.5	11/12/2023	1:00	0.4	247.5	12/12/2023	1:00	1.3	247.5
9/12/2023	2:00	0.9	112.5	10/12/2023	2:00	1.3	112.5	11/12/2023	2:00	0.9	225	12/12/2023	2:00	1.3	247.5
9/12/2023	3:00	0.9	22.5	10/12/2023	3:00	0.9	112.5	11/12/2023	3:00	0.9	247.5	12/12/2023	3:00	0.9	225
9/12/2023	4:00	0.9	112.5	10/12/2023	4:00	0.4	45	11/12/2023	4:00	0.9	225	12/12/2023	4:00	1.8	247.5
9/12/2023	5:00	0.4	112.5	10/12/2023	5:00	0.4	247.5	11/12/2023	5:00	1.3	225	12/12/2023	5:00	1.8	135
9/12/2023	6:00	0	112.5	10/12/2023	6:00	0.4	247.5	11/12/2023	6:00	0.9	247.5	12/12/2023	6:00	1.8	112.5
9/12/2023	7:00	0	112.5	10/12/2023	7:00	0.9	180	11/12/2023	7:00	0.4	225	12/12/2023	7:00	0.4	112.5
9/12/2023	8:00	0.4	112.5	10/12/2023	8:00	0.4	90	11/12/2023	8:00	0.4	180	12/12/2023	8:00	0.4	22.5
9/12/2023	9:00	0.9	112.5	10/12/2023	9:00	0.4	247.5	11/12/2023	9:00	0.4	247.5	12/12/2023	9:00	0.4	270
9/12/2023	10:00	1.3	112.5	10/12/2023	10:00	0.4	225	11/12/2023	10:00	0.4	225	12/12/2023	10:00	0.9	270
9/12/2023	11:00	1.3	112.5	10/12/2023	11:00	0.4	225	11/12/2023	11:00	0.4	225	12/12/2023	11:00	0.9	270
9/12/2023	12:00	0.4	112.5	10/12/2023	12:00	0.9	180	11/12/2023	12:00	0.4	202.5	12/12/2023	12:00	0.9	247.5
9/12/2023	13:00	0.9	112.5	10/12/2023	13:00	0.4	270	11/12/2023	13:00	0.4	22.5	12/12/2023	13:00	1.3	225
9/12/2023	14:00	0.9	112.5	10/12/2023	14:00	0.9	202.5	11/12/2023	14:00	0.4	202.5	12/12/2023	14:00	0.9	180
9/12/2023	15:00	0.9	112.5	10/12/2023	15:00	0.4	202.5	11/12/2023	15:00	0.4	22.5	12/12/2023	15:00	0.4	247.5
9/12/2023	16:00	0.4	112.5	10/12/2023	16:00	0.4	247.5	11/12/2023	16:00	0.4	90	12/12/2023	16:00	0.4	225
9/12/2023	17:00	0	112.5	10/12/2023	17:00	0.4	247.5	11/12/2023	17:00	0.4	67.5	12/12/2023	17:00	0.4	225
9/12/2023	18:00	0	90	10/12/2023	18:00	0.4	225	11/12/2023	18:00	0.4	90	12/12/2023	18:00	0.4	202.5
9/12/2023	19:00	0.4	292.5	10/12/2023	19:00	0.9	157.5	11/12/2023	19:00	0.4	135	12/12/2023	19:00	0.4	22.5
9/12/2023	20:00	0.4	112.5	10/12/2023	20:00	0.4	135	11/12/2023	20:00	0.4	135	12/12/2023	20:00	0	90

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
9/12/2023	21:00	0.4	337.5	10/12/2023	21:00	0.9	135	11/12/2023	21:00	0.4	90	12/12/2023	21:00	0.4	45
9/12/2023	22:00	0.9	247.5	10/12/2023	22:00	1.3	90	11/12/2023	22:00	0.4	112.5	12/12/2023	22:00	0.4	45
9/12/2023	23:00	0.9	45	10/12/2023	23:00	1.3	45	11/12/2023	23:00	0.4	112.5	12/12/2023	23:00	0.4	45
13/12/2023	0:00	0.9	112.5	14/12/2023	0:00	0.4	112.5	15/12/2023	0:00	0.9	112.5	16/12/2023	0:00	0.4	22.5
13/12/2023	1:00	0.4	112.5	14/12/2023	1:00	0.9	315	15/12/2023	1:00	1.3	67.5	16/12/2023	1:00	0.4	22.5
13/12/2023	2:00	0.4	135	14/12/2023	2:00	0.9	337.5	15/12/2023	2:00	0.4	45	16/12/2023	2:00	0.9	45
13/12/2023	3:00	0.9	112.5	14/12/2023	3:00	0.4	45	15/12/2023	3:00	1.3	112.5	16/12/2023	3:00	0.4	135
13/12/2023	4:00	0.9	112.5	14/12/2023	4:00	0.9	45	15/12/2023	4:00	0.9	45	16/12/2023	4:00	0.4	112.5
13/12/2023	5:00	0.4	90	14/12/2023	5:00	0.4	45	15/12/2023	5:00	1.3	90	16/12/2023	5:00	0.9	135
13/12/2023	6:00	1.3	135	14/12/2023	6:00	0.4	135	15/12/2023	6:00	0.9	45	16/12/2023	6:00	0.4	135
13/12/2023	7:00	1.3	67.5	14/12/2023	7:00	0.9	90	15/12/2023	7:00	0.4	135	16/12/2023	7:00	0.9	22.5
13/12/2023	8:00	1.3	112.5	14/12/2023	8:00	0.4	112.5	15/12/2023	8:00	0.9	112.5	16/12/2023	8:00	0.4	45
13/12/2023	9:00	0.4	112.5	14/12/2023	9:00	0.4	45	15/12/2023	9:00	0.4	22.5	16/12/2023	9:00	0.4	135
13/12/2023	10:00	0.9	112.5	14/12/2023	10:00	0.4	135	15/12/2023	10:00	0.4	202.5	16/12/2023	10:00	0.4	202.5
13/12/2023	11:00	0.1	22.5	14/12/2023	11:00	0.4	112.5	15/12/2023	11:00	0.4	135	16/12/2023	11:00	0.4	202.5
13/12/2023	12:00	0.4	315	14/12/2023	12:00	0.4	157.5	15/12/2023	12:00	0.4	112.5	16/12/2023	12:00	0.4	135
13/12/2023	13:00	0.4	225	14/12/2023	13:00	0.9	337.5	15/12/2023	13:00	0.4	112.5	16/12/2023	13:00	0.4	112.5
13/12/2023	14:00	0.4	337.5	14/12/2023	14:00	1.8	90	15/12/2023	14:00	0.9	112.5	16/12/2023	14:00	0.4	112.5
13/12/2023	15:00	0.4	337.5	14/12/2023	15:00	0.4	90	15/12/2023	15:00	0.9	135	16/12/2023	15:00	0.4	22.5
13/12/2023	16:00	0.4	225	14/12/2023	16:00	0.9	67.5	15/12/2023	16:00	0.9	45	16/12/2023	16:00	0.4	22.5
13/12/2023	17:00	0.9	337.5	14/12/2023	17:00	0.4	112.5	15/12/2023	17:00	0.9	337.5	16/12/2023	17:00	0.9	45
13/12/2023	18:00	0.4	337.5	14/12/2023	18:00	1.3	90	15/12/2023	18:00	0.9	247.5	16/12/2023	18:00	0.4	135
13/12/2023	19:00	0.9	315	14/12/2023	19:00	1.3	90	15/12/2023	19:00	0.4	112.5	16/12/2023	19:00	0.4	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
13/12/2023	20:00	0.9	225	14/12/2023	20:00	1.3	90	15/12/2023	20:00	0.4	337.5	16/12/2023	20:00	0.9	135
13/12/2023	21:00	0.9	247.5	14/12/2023	21:00	0.4	90	15/12/2023	21:00	0.9	247.5	16/12/2023	21:00	0.4	135
13/12/2023	22:00	0.9	22.5	14/12/2023	22:00	0.9	90	15/12/2023	22:00	0.4	45	16/12/2023	22:00	0.9	22.5
13/12/2023	23:00	1.3	22.5	14/12/2023	23:00	0.4	337.5	15/12/2023	23:00	1.3	90	16/12/2023	23:00	0.4	45

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
17/12/2023	0:00	0.9	112.5	18/12/2023	0:00	0.4	112.5	19/12/2023	0:00	0.4	45	20/12/2023	0:00	1.3	112.5
17/12/2023	1:00	0.9	112.5	18/12/2023	1:00	1.3	90	19/12/2023	1:00	0.4	22.5	20/12/2023	1:00	1.3	67.5
17/12/2023	2:00	0.4	112.5	18/12/2023	2:00	1.8	90	19/12/2023	2:00	0.4	247.5	20/12/2023	2:00	1.3	112.5
17/12/2023	3:00	0.4	112.5	18/12/2023	3:00	1.3	67.5	19/12/2023	3:00	0.9	180	20/12/2023	3:00	0.9	67.5
17/12/2023	4:00	0.4	67.5	18/12/2023	4:00	1.3	247.5	19/12/2023	4:00	1.3	45	20/12/2023	4:00	1.3	67.5
17/12/2023	5:00	0.9	112.5	18/12/2023	5:00	0.9	247.5	19/12/2023	5:00	0.9	135	20/12/2023	5:00	0.9	90
17/12/2023	6:00	0.9	67.5	18/12/2023	6:00	0.4	225	19/12/2023	6:00	0.4	112.5	20/12/2023	6:00	0.9	90
17/12/2023	7:00	0.4	67.5	18/12/2023	7:00	1.3	157.5	19/12/2023	7:00	0.4	135	20/12/2023	7:00	0.4	45
17/12/2023	8:00	0.4	90	18/12/2023	8:00	0.4	45	19/12/2023	8:00	0.9	45	20/12/2023	8:00	0.4	22.5
17/12/2023	9:00	0.9	90	18/12/2023	9:00	1.3	292.5	19/12/2023	9:00	1.3	247.5	20/12/2023	9:00	0.4	247.5
17/12/2023	10:00	0.4	112.5	18/12/2023	10:00	0	112.5	19/12/2023	10:00	0.9	247.5	20/12/2023	10:00	0.9	180
17/12/2023	11:00	0.4	112.5	18/12/2023	11:00	0.4	22.5	19/12/2023	11:00	0.4	225	20/12/2023	11:00	1.3	45
17/12/2023	12:00	0.9	112.5	18/12/2023	12:00	1.3	112.5	19/12/2023	12:00	1.3	157.5	20/12/2023	12:00	0.9	135
17/12/2023	13:00	0.9	112.5	18/12/2023	13:00	0.4	112.5	19/12/2023	13:00	0.4	45	20/12/2023	13:00	0.4	112.5
17/12/2023	14:00	0.9	112.5	18/12/2023	14:00	0.9	112.5	19/12/2023	14:00	1.3	292.5	20/12/2023	14:00	0.4	135
17/12/2023	15:00	0.9	112.5	18/12/2023	15:00	0.9	112.5	19/12/2023	15:00	0	112.5	20/12/2023	15:00	0.9	45
17/12/2023	16:00	0.4	22.5	18/12/2023	16:00	0.9	90	19/12/2023	16:00	0.4	135	20/12/2023	16:00	0.4	135

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
17/12/2023	17:00	0.4	90	18/12/2023	17:00	1.8	90	19/12/2023	17:00	0.9	135	20/12/2023	17:00	0.4	135
17/12/2023	18:00	0.9	90	18/12/2023	18:00	1.3	337.5	19/12/2023	18:00	0.4	270	20/12/2023	18:00	1.3	22.5
17/12/2023	19:00	0.9	112.5	18/12/2023	19:00	0.9	225	19/12/2023	19:00	0.9	45	24/12/2023	19:00	1.3	67.5
17/12/2023	20:00	0.4	67.5	18/12/2023	20:00	1.3	225	19/12/2023	20:00	1.3	135	24/12/2023	20:00	0.9	112.5
17/12/2023	21:00	1.3	90	18/12/2023	21:00	1.3	337.5	19/12/2023	21:00	1.8	112.5	24/12/2023	21:00	0.9	135
17/12/2023	22:00	1.3	90	18/12/2023	22:00	0.9	225	19/12/2023	22:00	1.8	112.5	24/12/2023	22:00	0.9	315
17/12/2023	23:00	1.3	90	18/12/2023	23:00	1.3	225	19/12/2023	23:00	1.8	90	24/12/2023	23:00	0.9	135
21/12/2023	0:00	0.4	112.5	22/12/2023	0:00	0	112.5	23/12/2023	0:00	0.4	45	24/12/2023	0:00	0.4	90
21/12/2023	1:00	0.4	112.5	22/12/2023	1:00	0	45	23/12/2023	1:00	0.4	135	24/12/2023	1:00	0.9	112.5
21/12/2023	2:00	0.4	112.5	22/12/2023	2:00	0.4	337.5	23/12/2023	2:00	0.9	112.5	24/12/2023	2:00	0.9	90
21/12/2023	3:00	0.4	112.5	22/12/2023	3:00	0.4	135	23/12/2023	3:00	1.3	112.5	24/12/2023	3:00	1.3	90
21/12/2023	4:00	0.4	90	22/12/2023	4:00	0.4	337.5	23/12/2023	4:00	0.9	90	24/12/2023	4:00	1.3	112.5
21/12/2023	5:00	0.4	112.5	22/12/2023	5:00	0.4	90	23/12/2023	5:00	0.9	90	24/12/2023	5:00	1.3	112.5
21/12/2023	6:00	0.4	112.5	22/12/2023	6:00	0.9	180	23/12/2023	6:00	0.4	67.5	24/12/2023	6:00	0.9	45
21/12/2023	7:00	0.4	90	22/12/2023	7:00	0	112.5	23/12/2023	7:00	0.4	90	24/12/2023	7:00	1.3	22.5
21/12/2023	8:00	0.4	112.5	22/12/2023	8:00	0.4	180	23/12/2023	8:00	0.9	45	24/12/2023	8:00	0.9	22.5.5
21/12/2023	9:00	0.4	112.5	22/12/2023	9:00	0.4	135	23/12/2023	9:00	0.4	270	24/12/2023	9:00	0.9	22.5
21/12/2023	10:00	0.9	225	22/12/2023	10:00	0.9	90	23/12/2023	10:00	0.4	90	24/12/2023	10:00	0.4	22.5
21/12/2023	11:00	0.9	112.5	22/12/2023	11:00	0.4	67.5	23/12/2023	11:00	0.9	337.5	24/12/2023	11:00	0.4	292.5
21/12/2023	12:00	0.9	180	22/12/2023	12:00	0.4	90	23/12/2023	12:00	0.4	90	24/12/2023	12:00	0.9	22.5
21/12/2023	13:00	0	112.5	22/12/2023	13:00	0.9	45	23/12/2023	13:00	1.3	45	24/12/2023	13:00	0.9	112.5
21/12/2023	14:00	0.4	180	22/12/2023	14:00	0.4	270	23/12/2023	14:00	0.9	22.5	24/12/2023	14:00	0.4	112.5
21/12/2023	15:00	0.4	135	22/12/2023	15:00	0.4	90	23/12/2023	15:00	0.4	22.5.5	24/12/2023	15:00	0.4	45
21/12/2023	16:00	0.4	180	22/12/2023	16:00	0.9	337.5	23/12/2023	16:00	1.3	22.5	24/12/2023	16:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
21/12/2023	17:00	1.8	90	22/12/2023	17:00	0.4	90	23/12/2023	17:00	0.9	22.5	24/12/2023	17:00	0.4	112.5
21/12/2023	18:00	1.8	90	22/12/2023	18:00	0.9	67.5	23/12/2023	18:00	0.4	292.5	24/12/2023	18:00	0.4	45
21/12/2023	19:00	0.4	247.5	22/12/2023	19:00	1.3	112.5	23/12/2023	19:00	0.4	22.5	24/12/2023	19:00	0.9	22.5
21/12/2023	20:00	1.3	270	22/12/2023	20:00	0.9	90	23/12/2023	20:00	0.9	90	24/12/2023	20:00	0.4	22.5.5
21/12/2023	21:00	0.4	112.5	22/12/2023	21:00	1.3	45	23/12/2023	21:00	0.4	90	24/12/2023	21:00	0.4	22.5
21/12/2023	22:00	0.9	90	22/12/2023	22:00	1.3	112.5	23/12/2023	22:00	0.4	112.5	24/12/2023	22:00	0.9	22.5
21/12/2023	23:00	0.9	135	22/12/2023	23:00	0.4	90	23/12/2023	23:00	0.9	112.5	24/12/2023	23:00	0.9	112.5
25/12/2023	0:00	0.9	67.5	26/12/2023	0:00	0.9	0	27/12/2023	0:00	1.3	157.5	28/12/2023	0:00	2.2	112.5
25/12/2023	1:00	0.4	112.5	26/12/2023	1:00	0.9	22.5	27/12/2023	1:00	1.3	90	28/12/2023	1:00	0.9	112.5
25/12/2023	2:00	0.4	90	26/12/2023	2:00	0.4	90	27/12/2023	2:00	0.4	157.5	28/12/2023	2:00	1.3	112.5
25/12/2023	3:00	0.4	112.5	26/12/2023	3:00	0.4	22.5	27/12/2023	3:00	0.4	112.5	28/12/2023	3:00	0.9	337.5
25/12/2023	4:00	0.4	90	26/12/2023	4:00	0.4	337.5	27/12/2023	4:00	0.9	112.5	28/12/2023	4:00	0.9	67.5
25/12/2023	5:00	0	315	26/12/2023	5:00	0.4	112.5	27/12/2023	5:00	0.9	112.5	28/12/2023	5:00	0.4	67.5
25/12/2023	6:00	0	315	26/12/2023	6:00	0.4	45	27/12/2023	6:00	0.9	112.5	28/12/2023	6:00	0.4	90
25/12/2023	7:00	0.9	90	26/12/2023	7:00	0.4	112.5	27/12/2023	7:00	0.9	112.5	28/12/2023	7:00	0.4	112.5
25/12/2023	8:00	0.9	270	26/12/2023	8:00	0.4	135	27/12/2023	8:00	0.9	112.5	28/12/2023	8:00	0.4	112.5
25/12/2023	9:00	0.9	135	26/12/2023	9:00	0.4	45	27/12/2023	9:00	0.9	112.5	28/12/2023	9:00	0.4	337.5
25/12/2023	10:00	0.9	90	26/12/2023	10:00	0.4	112.5	27/12/2023	10:00	0.9	112.5	28/12/2023	10:00	0.9	67.5
25/12/2023	11:00	0.9	90	26/12/2023	11:00	0.4	135	27/12/2023	11:00	0.9	337.5	28/12/2023	11:00	0.9	67.5
25/12/2023	12:00	0.4	90	26/12/2023	12:00	0.4	112.5	27/12/2023	12:00	0.4	67.5	28/12/2023	12:00	0.9	90
25/12/2023	13:00	0.9	112.5	26/12/2023	13:00	0.4	45	27/12/2023	13:00	0.4	67.5	28/12/2023	13:00	0.4	90
25/12/2023	14:00	0.4	90	26/12/2023	14:00	0.4	112.5	27/12/2023	14:00	1.3	67.5	28/12/2023	14:00	0.4	90
25/12/2023	15:00	0.9	315	26/12/2023	15:00	0.4	135	27/12/2023	15:00	1.3	112.5	28/12/2023	15:00	0.4	90
25/12/2023	16:00	1.3	90	26/12/2023	16:00	0.4	45	27/12/2023	16:00	0.4	157.5	28/12/2023	16:00	1.3	67.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
25/12/2023	17:00	0.4	90	26/12/2023	17:00	0.4	112.5	27/12/2023	17:00	0.4	112.5	28/12/2023	17:00	1.3	67.5
25/12/2023	18:00	0.4	112.5	26/12/2023	18:00	0.4	135	27/12/2023	18:00	0.9	112.5	28/12/2023	18:00	0.9	0
25/12/2023	19:00	0.4	90	26/12/2023	19:00	0.4	112.5	27/12/2023	19:00	0.4	112.5	28/12/2023	19:00	0.9	315
25/12/2023	20:00	0.4	315	26/12/2023	20:00	0.9	90	27/12/2023	20:00	0.4	67.5	28/12/2023	20:00	0.9	247.5
25/12/2023	21:00	0.4	315	26/12/2023	21:00	0.4	90	27/12/2023	21:00	0.4	90	28/12/2023	21:00	0.9	292.5
25/12/2023	22:00	0.4	90	26/12/2023	22:00	0.4	90	27/12/2023	22:00	1.8	270	28/12/2023	22:00	1.3	0
25/12/2023	23:00	0.4	180	26/12/2023	23:00	0.9	90	27/12/2023	23:00	2.2	270	28/12/2023	23:00	0.9	67.5
29/12/2023	0:00	1.8	247.5	30/12/2023	0:00	0.4	135	31/12/2023	0:00	0.4	90				
29/12/2023	1:00	1.3	225	30/12/2023	1:00	1.3	315	31/12/2023	1:00	0.9	112.5				
29/12/2023	2:00	0.4	225	30/12/2023	2:00	1.3	112.5	31/12/2023	2:00	0.9	112.5				
29/12/2023	3:00	0.9	225	30/12/2023	3:00	0.4	337.5	31/12/2023	3:00	0	90				
29/12/2023	4:00	1.3	225	30/12/2023	4:00	0.9	270	31/12/2023	4:00	0.9	22.5				
29/12/2023	5:00	0.9	225	30/12/2023	5:00	0.9	315	31/12/2023	5:00	0.4	157.5				
29/12/2023	6:00	0.4	112.5	30/12/2023	6:00	0.9	90	31/12/2023	6:00	1.3	157.5				
29/12/2023	7:00	1.3	135	30/12/2023	7:00	0.9	90	31/12/2023	7:00	0.4	45				
29/12/2023	8:00	0.4	135	30/12/2023	8:00	0.4	90	31/12/2023	8:00	1.3	90				
29/12/2023	9:00	0.9	45	30/12/2023	9:00	0.9	112.5	31/12/2023	9:00	0.4	112.5				
29/12/2023	10:00	0.4	135	30/12/2023	10:00	0.9	112.5	31/12/2023	10:00	0.9	112.5				
29/12/2023	11:00	0.4	135	30/12/2023	11:00	0	90	31/12/2023	11:00	0.4	112.5				
29/12/2023	12:00	1.3	22.5	30/12/2023	12:00	0.9	22.5	31/12/2023	12:00	0.4	67.5				
29/12/2023	13:00	1.3	67.5	30/12/2023	13:00	0.4	157.5	31/12/2023	13:00	0.4	270				
29/12/2023	14:00	0.9	112.5	30/12/2023	14:00	1.3	157.5	31/12/2023	14:00	0	292.5				
29/12/2023	15:00	0.9	135	30/12/2023	15:00	0.4	45	31/12/2023	15:00	0.4	337.5				
29/12/2023	16:00	0.4	135	30/12/2023	16:00	0.9	45	31/12/2023	16:00	0.4	112.5				

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/12/2023	17:00	0.4	112.5	30/12/2023	17:00	0.4	337.5	31/12/2023	17:00	0.4	112.5				
29/12/2023	18:00	0.9	112.5	30/12/2023	18:00	0.4	112.5	31/12/2023	18:00	0.4	22.5				
29/12/2023	19:00	0.9	157.5	30/12/2023	19:00	0.4	112.5	31/12/2023	19:00	1.3	112.5				
29/12/2023	20:00	1.3	90	30/12/2023	20:00	0.4	22.5	31/12/2023	20:00	0.9	90				
29/12/2023	21:00	1.3	112.5	30/12/2023	21:00	1.3	112.5	31/12/2023	21:00	0.4	135				
29/12/2023	22:00	1.3	90	30/12/2023	22:00	0.9	90	31/12/2023	22:00	0.4	112.5				
29/12/2023	23:00	1.8	90	30/12/2023	23:00	0.4	135	31/12/2023	23:00	0.4	112.5				

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Appendix G – 24-hr TSP monitoring results and graphical presentation

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cfi		Av. Flow	Total vol.	Conc. $(uq/m^3)$
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	$(\mu g/m^3)$
1/12/2023	Sunny	24.2	1021.5	18.1297	18.2285	0.0988	2023/12/1 9:10	2023/12/2 9:10	1440	50	50	1.37	1967	50
7/12/2023	Sunny	24.3	1017.8	18.0306	18.1297	0.0991	2023/12/7 9:30	2023/12/8 9:30	1440	52	52	1.42	2043	49
13/12/2023	Sunny	23.1	1019.4	14.89	14.9708	0.0808	2023/12/13 13:25	2023/12/14 13:25	1440	52	52	1.42	2049	39
19/12/2023	Cloudy	17.9	1021.2	18.2881	18.3453	0.0572	2023/12/19 9:15	2023/12/20 9:15	1440	52	52	1.45	2090	27
23/12/2023	Sunny	15.1	1029.9	15.1916	15.2933	0.1017	2023/12/23 13:10	2023/12/24 13:10	1440	50	50	1.41	2027	50
29/12/2023	Cloudy	23.6	1021.1	15.1288	15.2322	0.1034	2023/12/29 13:30	2023/12/30 13:30	1440	50	50	1.37	1969	53
												Maxim	num	53
												Minim	um	27
												Avera	ige	45
												Action I	Level	175

Limit Level

260

Location: AM2(A) – Ng Wah Catholic Secondary School

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate weight (g)	Elapse	e Time	Sampling Time	Flow (cfi		Av. Flow	Total vol.	Conc. (µg/m <sup>3</sup> )
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m)
1/12/2023	Sunny	24.2	1021.5	14.9557	15.1232	0.1675	2023/12/1 13:28	2023/12/2 13:28	1440	46	46	1.27	1829	92
7/12/2023	Sunny	24.3	1017.8	18.3027	18.3774	0.0747	2023/12/7 13:31	2023/12/8 13:31	1440	50	50	1.38	1989	38
13/12/2023	Sunny	23.1	1019.4	18.2471	18.4092	0.1621	2023/12/13 9:24	2023/12/14 9:24	1440	50	50	1.40	2012	81
19/12/2023	Cloudy	17.9	1021.2	15.2083	15.3163	0.108	2023/12/19 13:37	2023/12/20 13:37	1440	50	50	1.40	2012	54
23/12/2023	Sunny	15.1	1029.9	18.2294	18.3219	0.0925	2023/12/23 9:28	2023/12/24 9:28	1440	50	50	1.41	2031	46
29/12/2023	Cloudy	23.6	1021.1	15.1576	15.2424	0.0848	2023/12/29 9:29	2023/12/30 9:29	1440	50	50	1.38	1992	43
								•			•	Maxi	mum	92
												Mini	mum	38
												Ave	rage	59

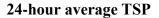
Action Level Limit Level

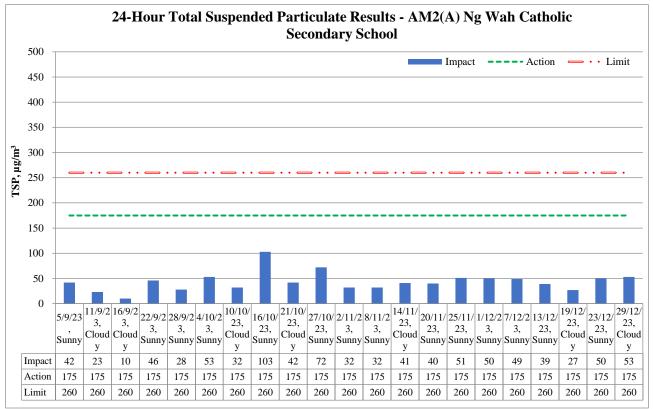
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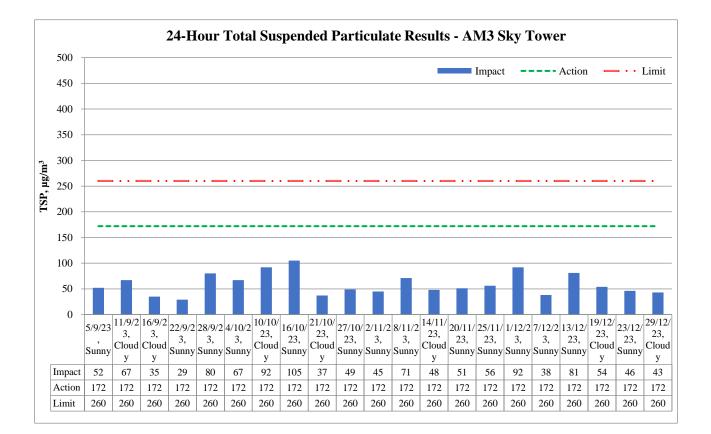
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Location: AM3 – Sky Tower

Page 3 of 5







		Reportin	g Period	
Major Construction Activities	Sep	Oct	Nov	Dec
	2023	2023	2023	2023
Construction works for DCS	$\checkmark$	✓	√	✓
Construction of Underpinning of S14	$\checkmark$			
Construction of Retaining Wall Type 1 for S14	$\checkmark$	✓	✓	✓
Construction of Pile Cap for S14	$\checkmark$	✓	✓	✓
Construction works for SMH404 and SMH505	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction of Permanent Shaft Structure of SB-01			$\checkmark$	$\checkmark$
Demolition of bearing wall of S14		$\checkmark$	$\checkmark$	
Dismantling Falsework and Portal Frame at LW-02				✓
Modification works for Rising Main chamber WOC1, AVC2 and K1	$\checkmark$	$\checkmark$	$\checkmark$	
Modification Works for Rising Main chamber K1				$\checkmark$
Installation of post tensioning anchorage system at LW-02			$\checkmark$	✓
Erection of falseworks and working platform for decking of Elevated Walkway LW-02	$\checkmark$	~	$\checkmark$	✓
RTBM dismantle	$\checkmark$	✓		
RC construction for decking of Elevated Walkway LW-02	$\checkmark$	✓	√	✓
RC construction for Subway KS10 Lift and Staircase	$\checkmark$			
RC construction works for lift and staircase of LW-02	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Renovation works for Subway KS10 Lift and Staircase		$\checkmark$	$\checkmark$	$\checkmark$
Renovation works for existing subways KS9, KS32 and KS10	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Road and Drain Construction works for Road L16, Commercial Street and Road D1	$\checkmark$	~	~	~
Road and drain construction works for Olympic Avenue	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$

		Reportin	g Period	
Factors might affect the monitoring results	Sep 2023	Oct 2023	Nov 2023	Dec 2023
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~

Appendix H – 1-hr TSP monitoring results and graphical presentation

	Date	Measure	emer	nt Period	1-hr TSP concentration, $\Box g/m^3$	Weather		
Location:		9:00	-	10:00	56			
AM2(A) –	01/12/2023	10:00	-	11:00	49	Sunny		
		11:00	-	12:00	58			
Ng Wah Catholic		9:00	-	10:00	55			
Secondary School	07/12/2023	10:00	-	11:00	53	Sunny		
		11:00	-	12:00	52			
		13:00	-	14:00	45			
	13/12/2023	14:00	-	15:00	42	Sunny		
		15:00	-	16:00	38			
		9:00	-	10:00	35			
	19/12/2023	10:00	-	11:00	36	Cloudy		
		11:00	-	12:00	40	-		
		13:00	-	14:00	48			
	23/12/2023	14:00	-	15:00	48	Sunny		
		15:00	-	16:00	57	,		
		13:00	-	14:00	55			
	29/12/2023	14:00	-	15:00	62	Cloudy		
		15:00	-	16:00	60	-		
	М	laximum			62			
	N	linimum			35			
	A	Average			49			
	Act	tion Level			302			
	Lii	mit Level			500			

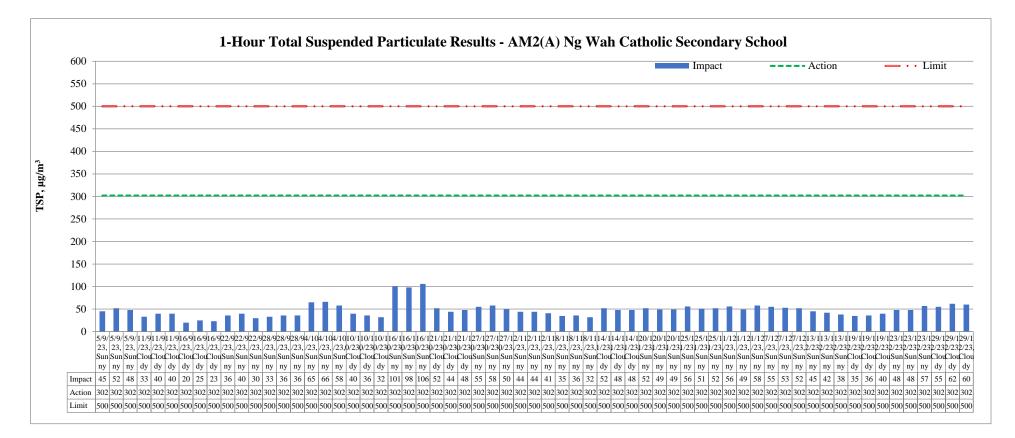
Date	Measure	eme	nt Period	1-hr TSP concentration, $\Box g/m^3$	Weather			
	13:00	-	14:00	89				
01/12/2023	14:00	-	15:00	92	Sunny			
	15:00	-	16:00	95				
	13:00	-	14:00	52				
07/12/2023	14:00 - 15:0			14:00 - 15:00 55				
	15:00	-	16:00	53				
	9:00	-	10:00	79				
13/12/2023	10:00	-	11:00	76	Sunny			
11:00 - 12:00				78				
	13:00	-	14:00	53				
19/12/2023	14:00	-	15:00	57	Cloudy			
	15:00	-	16:00	56				
	9:00	-	10:00	47				
23/12/2023	10:00	-	11:00	44	Sunny			
	11:00	-	12:00	41				
	9:00	-	10:00	57				
29/12/2023	10:00	-	11:00	59	Cloudy			
	11:00	-	12:00	60	]			
]	Maximum			95				
]	Minimum			41				
	Average			64				
	ction Leve			301				
L	imit Leve	1		500				

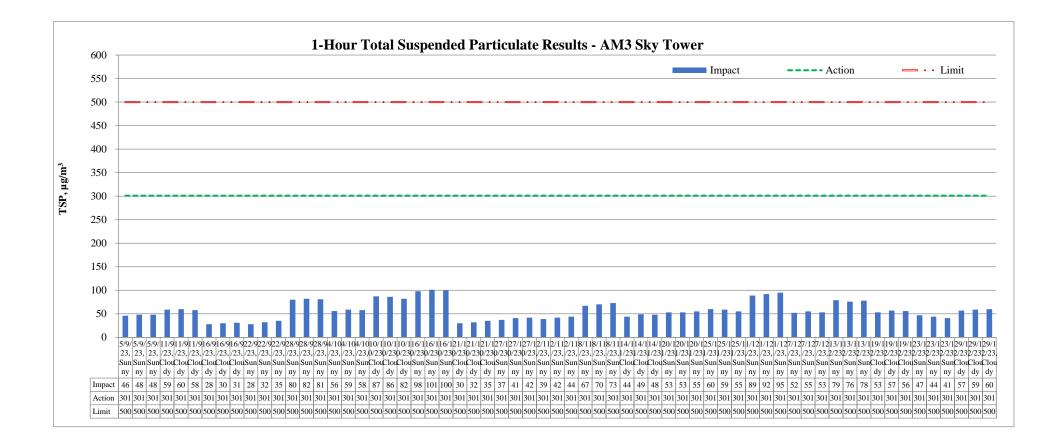
# Location:

AM3 -

**Sky Tower** 







		Reportin	g Period	
Major Construction Activities	Sep	Oct	Nov	Dec
	2023	2023	2023	2023
Construction works for DCS	$\checkmark$	✓	✓	$\checkmark$
Construction of Underpinning of S14	$\checkmark$			
Construction of Retaining Wall Type 1 for S14	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction of Pile Cap for S14	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction works for SMH404 and SMH505	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction of Permanent Shaft Structure of SB-01			$\checkmark$	$\checkmark$
Demolition of bearing wall of S14		$\checkmark$	$\checkmark$	
Dismantling Falsework and Portal Frame at LW-02				$\checkmark$
Modification works for Rising Main chamber WOC1, AVC2 and K1	$\checkmark$	$\checkmark$	✓	
Modification Works for Rising Main chamber K1				$\checkmark$
Installation of post tensioning anchorage system at LW-02			✓	$\checkmark$
Erection of falseworks and working platform for decking of Elevated Walkway LW-02	$\checkmark$	~	~	$\checkmark$
RTBM dismantle	$\checkmark$	✓		
RC construction for decking of Elevated Walkway LW-02	$\checkmark$	✓	✓	✓
RC construction for Subway KS10 Lift and Staircase	$\checkmark$			
RC construction works for lift and staircase of LW-02	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Renovation works for Subway KS10 Lift and Staircase		$\checkmark$	$\checkmark$	$\checkmark$
Renovation works for existing subways KS9, KS32 and KS10	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Road and Drain Construction works for Road L16, Commercial Street and Road D1	$\checkmark$	~	~	~
Road and drain construction works for Olympic Avenue	$\checkmark$	✓	$\checkmark$	√

		Reportin	g Period	
Factors might affect the monitoring results	Sep	Oct	Nov	Dec
	2023	2023	2023	2023
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~

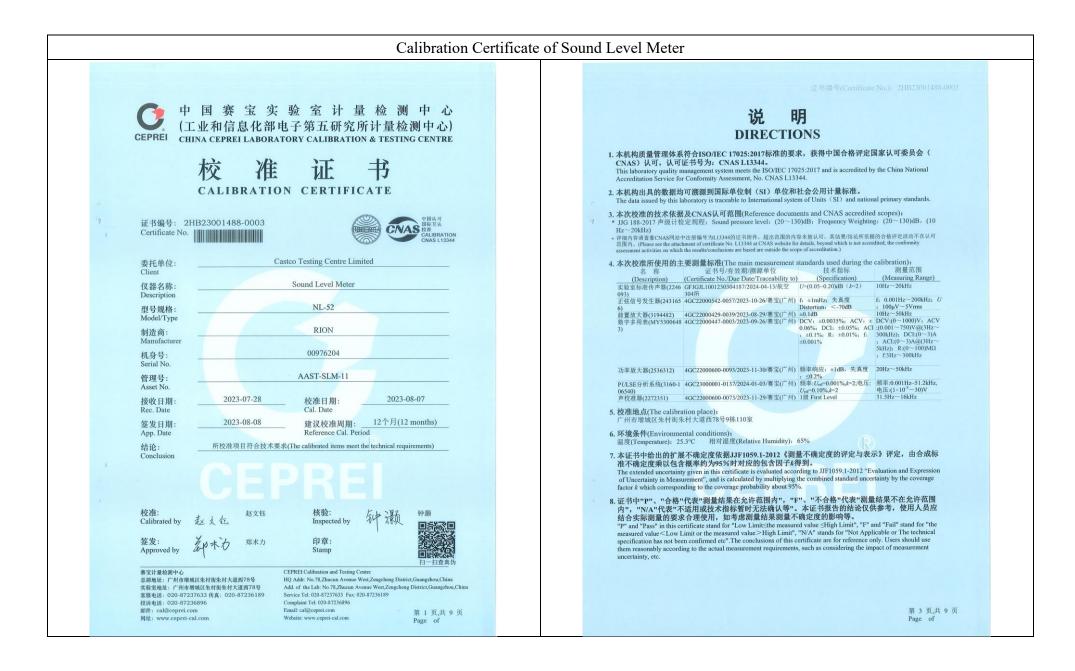
Appendix I – Event and Action Plan for air quality

		Action	n	
Event	ET	IEC	Supervisor / ER	Contractor
Action Level being exceeded by one sampling	<ol> <li>Identify source and investigate the causes of exceedance;</li> <li>Inform Contractor, IEC and Supervisor /ER;</li> <li>Repeat measurement to confirm finding.</li> </ol>	<ol> <li>Check monitoring data 1 submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	I. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
Action Level being exceeded by two or more consecutive	1. Identify source and investigate the causes of exceedance;	<ol> <li>Check monitoring data 1 submitted by ET;</li> <li>Check Contractor's</li> </ol>	notification of exceedance in writing;	1. Discuss with ET and IEC on proper remedial actions;
sampling	2. Inform Contractor, IEC and Supervisor /ER;	working method;23. Discuss with ET and3	3. In consolidation with the	2. Submit proposals for remedial actions to
	3. Increase monitoring frequency to daily;	Contractor on possible remedial measures;	IEC, agree with the Contractor on the remedial	Supervisor /ER and IEC within three working day
	4. Discuss with IEC and Contractor on remedial actions required;	on the effectiveness of the	measures to be implemented; 4. Supervise implementation	of notification; 3. Implement the agreed proposals;
	5. Assess the effectiveness of Contractor's remedial actions;	measures. 5	<ul><li>of remedial measures;</li><li>5. Conduct meeting with ET and IEC if exceedance</li></ul>	4. Amend proposal if appropriate.
	6. If exceedance continues, arrange meeting with IEC and Supervisor /ER;		continues.	
	7. If exceedance stops, cease additional monitoring.			
Limit Level being		1. Check monitoring data 1	1	1. Take immediate action to
exceeded by one sampling	investigate the causes of exceedance;	submitted by ET; 2. Check Contractor's	notification of exceedance in writing;	<ul><li>avoid further exceedance;</li><li>Discuss with ET and IEC</li></ul>
	2. Inform Contractor, IEC, Supervisor / EP, and EPD:	working method; 2 3. Discuss possible remedial 3	5	on proper remedial actions;
	<ul><li>Supervisor /ER, and EPD;</li><li>Repeat measurement to confirm finding;</li></ul>	3. Discuss possible remedial 3 measures with ET and Contractor;	IEC, agree with the Contractor on the remedial	3. Submit proposal for remedial actions to
	4. Assess effectiveness of	4. Advise the Supervisor /ER	measures to be	Supervisor /ER and IEC

		Ac	tion	
Event	ET	IEC	Supervisor / ER	Contractor
	Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results.	on the effectiveness of the proposed remedial measures.	<ul> <li>implemented;</li> <li>4. Supervise implementation of remedial measures;</li> <li>5. Conduct meeting with ET and IEC if exceedance continues.</li> </ul>	<ul><li>within three working days of notification;</li><li>4. Implement the agreed proposals.</li></ul>
Limit Level being exceeded by two or more consecutive sampling	<ol> <li>Notify IEC, Supervisor /ER, Contractor and EPD;</li> <li>Repeat measurement to confirm findings;</li> <li>Carry out analysis of Contractor's working procedures to identify source and investigate the causes of exceedance;</li> <li>Increase monitoring frequency to daily;</li> <li>Arrange meeting with IEC, Supervisor /ER and Contractor to discuss the remedial action to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep EPD, IEC and Supervisor /ER</li> </ol>	<ul> <li>submitted by ET;</li> <li>Check Contractor's working method;</li> </ul>	<ul> <li>notification of exceedance in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise implementation of remedial measures;</li> </ul>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Discuss with ET and IEC on proper remedial actions;</li> <li>Submit proposal for remedial actions to Supervisor /ER and IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Submit further remedial actions if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.</li> </ol>
	7. If exceedance stop, cease additional monitoring.			

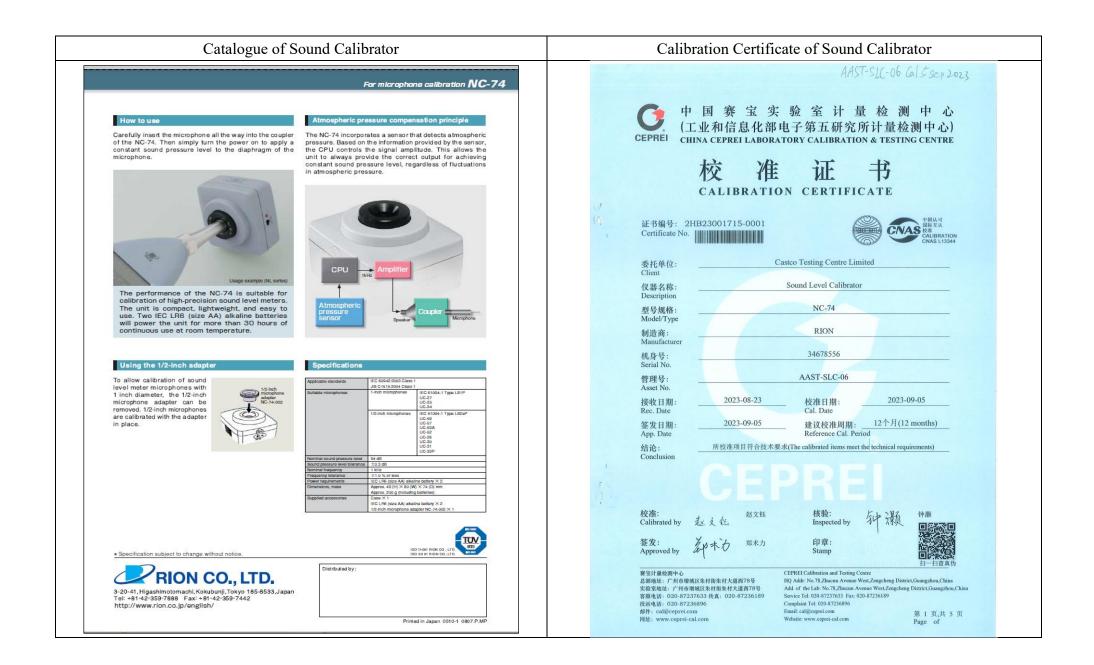
Appendix J – Calibration certificates, catalogue of noise monitoring equipment

		<u> </u>	•					
Spec	ifications							
					recall		Allows viewing of stored data	
Applicabl	e standards	NL-52	NL-42	Setup	p memo	ory	Op to five setup configurations of Start up via file settings previou	an be saved in internal memory, for later reca sly stored on SD card possible
Applicabl	e standards	ANSI S1.4-1983 Type 1	ANSI S1.4-1983 Type 2		eform rece ile forma	ording * 3	Uncompressed waveform WAV	E file
		ANSI S1.4A-1985 Type 1 ANSI S1.43-1997 Type 1	ANSI S1.4A-1985 Type 2 ANSI S1.43-1997 Type 2	Sa	ampling fi	requency	Select 48 kHz, 24 kHz or 12 kH	
	•	JIS C 1509-1: 2005 Class 1	JIS C 1509-1: 2005 Class 2		ata leng		Select 24 bit or 16 bit Output DC signals using a frequence	cy weighting characteristic selected by processin
	•	WEEE Directives, Chinese RoHS (	3. C, Low Voltage Directive 2006/95/EC), export model for China only)		Ou	itput voltage	2.5 V, 25 mV / dB at bar graph	display full scale
Measurei	ment functions	Simultaneous measurement of the	following items, with selected time		AC o	utput	Output AC signals using a freque processing or by A, C, Z-weight	ency weighting characteristic selected by ing.
Proces	ssing (main ch)	weighting and frequency weighting Instantaneous sound pressure leve	l: Lp			itput voltage parator	1 ∨ (rms values) at bar graph d	isplay full scale or output exceeds the set value
		Equivalent continuous sound press Sound exposure level: LE	ure level: Leg		outpu			current 60 mA, allowable dissipation 300 mW
		Maximum sound pressure level: Lm		USB			Allows USB to be connected to a Allows USB to be controlled via o	computer and recognized as a removable dis communication commands
		Minimum sound pressure level: Lmi Percentile sound levels: LN (0.1 to 99	.9 %, 0.1-increment steps, max. 5 values)	RS-2	232C co	mmunication		ation via use of a dedicated cable
	ssing (sub ch)	Instantaneous sound pressure leve	l: Lp			ous output * 2 instantaneous value	Lp	
Additio	onal processing	In addition to main processing item for simultaneous processing:	s, one of the following can be selected	da	ata 🛛	Processed value	Leq, Lmax, Lmin, Lpeak 100 ms	
		C-weighted equivalent continuous s C-weighted peak sound level: LCpea		Print			Printing of measurement results	
		Z-weighted peak sound level: Lzpea	k			rements e (23 °C)		e or rechargeable batteries) or external power supply Ni-MH secondary battery: 25 h
		I-time-weighted equivalent continuous Maximum I-time-weighted equivalent					At the maximum * Depends on	the setting
		The power average of the maximum le	vel of each 5 second interval: LAtm 5		C adapt xternal p	er ower voltage	NC-98C (NC-34 for previous m 5 to 7 ∨ (rated voltage: 6 ∨)	paels cannot be used)
		of the sub-channel, so when the sub-channel	has A-weighting, Lates can be selected.			onsumption	Approximately 90 mA (normal of -10 to +50 °C	peration, rated voltage)
		When C-weighting (Z-weighting ) is select (Lzeak) are selectable.	ed, the additional processing $L_{Ceq}$ and $L_{Cpeak}$	Ambie condit		Temperature Humidity	10 to 90 % RH (non-condensing	g)
Measurin		10 s, 1, 5, 10, 15, 30 m, 1, 8, 24 h,			proof / w rmance	ater-resistant *4	IP code: IP54 (except for micro See precautions regarding wate	
Microphone	Type Sensitivity level	UC-59 -27 dB	UC-52 -33 dB	Dime	ensions,	weight		nm(D), approx. 400 g (with batteries)
Measurer	ment range	A-weighting: 25 dB to 138 dB		Supp	blied acc	cessories		-10 x 1, Windscreen fall prevention rubber x 1, batteries x 4, SD card 512 MB×1 (NX-42EX
		C-weighting: 33 dB to 138 dB Z-weighting: 38 dB to 138 dB					preinstalled model only)	
		C-weighting peak sound level: 55 d Z-weighting peak sound level: 60 d		Opti	tions			
Inherent	A-weighting	17 dB or less	19 dB or less	Exter	nded fu		duct name m (Inst.on 512 MB SD card)	Product number NX-42EX
noise	C-weighting Z-weighting	25 dB or less 30 dB or less	27 dB or less 32 dB or less	Wave	eform re	ecording progr	ram*2 (Inst.on 2 GB SD card)	NX-42WR
Frequenc		20 Hz to 20 kHz	20 Hz to 8 kHz				ysis program*2 (Inst.on 512 MB SD card) Inst.on 512 MB SD card)	NX-42RT NX-42FT
Time wei	:y weighting ghting	A, C, and Z F (Fast) and S (Slow)					of or environmental measurement	AS-60
Level ran	ige ph display range max	Single range (Linearity range: 113 c Max. 110 dB (20 to 130 dB)	IB)	(Inclu	udes the	octave and 1/3	octave data management software)	AS-60RT
Switchin	g of bar graph display	Set the upper/ lower limit in 10 dB i	ncrements.				e for environmental measurement el data management software)	AS-60VM CAT-WAVE
RMS dete Sampling	ection circuit cycle	Digital processing method 20.8 µs (Lp, Leq, LE, Lmax, Lmin, Lper	k : sampling frequency: 48 kHz)	SD C	Card 51		110	SD-512M
Calibratic		100 ms (LN)	performed according to IEC and JIS standards,		Card 2 G adapter	6B (100 ∨ to 240	V)	SD-2G NC-98C
Calibratic	л	using internally generated signals: acous		Batte	ery pack	(		BP-21
Correctio	n functions	Windscreen correction: Compliant with IEC 61672-1 and JIS C 15	09-1 standards when the windscreen is installed.			extension cab tput code	oles	EC-04 (from 2 m) CC-24
		Diffuse sound field correction:		Com	parator	output cable		CC-42C
		Correction of frequency characteri (ANSI S1.4) in diffuse sound field.	stics in order to comply with standards	Printe	ter ter cable	)		DPU-414 CC-42P
Delay tim	le	The meter can be set to start measur	ing a specified time (OFF, 1, 3, 5 or 10 s)		232C se I cable	rial 1/O cable		CC-42R
Back era	se function	When the PAUSE key is pressed to	ed or when a user-set trigger is exceeded. pause measurement, the preceding	Soun	nd calibi			NC-74
Display		(user selectable) 0, 1, 3 or 5 s data Backlit semitransparent color TET I	are excluded from processing. CD display WQVGA (400 x 240 dots)			windscreen mounting ada	apter	WS-15 WS-15006
picty		* LCD with touch panel (Capacitive	Touch Panel)	Rain	-protect	tion windscree meter tripod		WS-16
Store	anual		sELEBar graph update frequency: 100 ms red manually in single address increments.	All-w	veather	windscreen tri		ST-80 ST-81
	Number of data	Internal memory: max. 1000 sets SD Card: depends on the capacity					products. +2 NX-42EX required (sold ful dust and water splashing from	separately). *3 NX-42WR required (sold separate any direction.
EEEA	uto*2	Instantaneous values (Lp mode) an	d processed values (Leg mode) are	Preca	autions	regarding wa		
	Lp sampling cycle	stored continuously and automatica 100 ms, 200 ms, 1 s, Leg 1s	Ily at preset intervals.					placement is required every two years (at cost
	Leg sampling cycle	10 s, 1, 5, 10, 15, 30 ms, 1, 8, 24 h						
	Measurement Time	Max. 1000 h (depends on the capa	city of the SD Card)*1					ISO 14001
		rk of Microsoft Corporation. to change without notice.						ISO 14001 RION CO., LTD.
								,
Distribu	nea by:			/				<b>O., LTD.</b>
				C				U., LI D.
						ht	ttp://www.rion.co.jp/eng	glish/
								nji, Tokyo 185-8533, Japai 259-7442
				rei:	-01	-42-359-	7888 Fax: +81-42-	339-1442



1.1 *β.2 Classified Subjective Levis Levis List 2 Subjective List 2 Subj	CEPREI		证书编号(Certific	cate No.):	2HB2300148	8-0003	CEPREI		证书编号	号(Certificate No.):	2HB2300148	8-0003
Note: Set in the set of th							3.2 其它级量程 (Other R	ange)		频率(Frequency): 1	000Hz	
The set or a clock of a difference were were were were were were were we			Check)				标准声级	指示声级	误差	允许误差	结论	U
22333 <t< th=""><th></th><th></th><th></th><th>e.a</th><th></th><th></th><th>(Standard)</th><th>(Indication)</th><th>(Error)</th><th>(Limit)</th><th>(Pass/Fail)</th><th>(<i>k</i>=2)</th></t<>				e.a			(Standard)	(Indication)	(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)
2 high and the constraint of th	There are no factor and	lefect that affect the mea	surement result accuracy	of the certific	cate.				(dB)	(dB)	(P/F)	(dB)
●●●000 </td <td>a. 地三古伊朗教 (F. P</td> <td>W. Callberting)</td> <td></td> <td>中語 感 (1</td> <td>Fraguancy)-10(</td> <td>0014-2</td> <td></td> <td></td> <td></td> <td>±0.8</td> <td>Р</td> <td>0.3</td>	a. 地三古伊朗教 (F. P	W. Callberting)		中語 感 (1	Fraguancy)-10(	0014-2				±0.8	Р	0.3
Macrophane Sky       Macro			☆ケート- 58 开			00112					Р	
μ       μ						C.P.					Р	
mb2a       Rd# rd#       dx# rd#       Rd# rd#       dx# rd#       rd# rd#				(							Р	
mb (Callentory)Mb (Messer)Mb (M		1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-									P	
(Atherence SP)       (Before Calumation)       (Ather Calum	声校准器型号	标准声压级	校准前示值	校准	后示值	U					P	
(18)       (18)											P	
422691.093.893.892.80.23 didit Level Linearity <td></td> <td>P</td> <td></td>											P	
3 digit (leforeme Rue)Bit (Pictureme	4226				93.8	0.2					p	
n) BettermerUUDescription <thdescription< th="">DescriptionDescripti</thdescription<>											Р	
1.1 spángil (inference Karr)UI-UI-UI-UI-UI-UI-UI-UI-UI-UI-UI-UI-UI-U	3 级线性 (Level Linearity)										Р	
(Bandard)       (Indixed)	3.1 参考级量程 (Reference R	ange)	频率(Fre	equency): 80							Р	
(Standart)       (Indication)       (	标准声级	指示声级									Р	
1300       129.8       -0.2       -0.8       P       0.3       33.9       -0.1       4.08       P       0.3         129.0       128.8       -0.2       -0.8       P       0.3       33.0       33.9       -0.1       4.08       P       0.3         128.0       127.0       126.8       -0.2       4.08       P       0.3       33.0       32.9       -0.1       4.08       P       0.3         126.0       125.9       -0.1       40.8       P       0.3       30.0       29.9       -0.1       40.8       P       0.3         125.0       124.9       -0.1       40.8       P       0.3       30.0       29.9       -0.1       40.8       P       0.3         100.0       100.0       -0.0       40.8       P       0.3       -0.0       -0.8       P       0.3         30.0       79.9       -0.1       40.8       P       0.3       -0.1       40.8       P       0.3         30.0       60.0       -0.0       40.8       P       0.3       -0.1       40.8       P       0.3         30.0       39.9       -0.1       40.8       P       0.3 <td< td=""><td>(Standard)</td><td></td><td></td><td></td><td></td><td></td><td>40.0</td><td>40.0</td><td>0.0</td><td></td><td>Р</td><td></td></td<>	(Standard)						40.0	40.0	0.0		Р	
128.0       128.8       -0.2       40.8       P       0.3       3.0       3.0       3.0       4.0.4       40.8       P       0.3         128.0       127.8       -0.2       40.8       P       0.3       32.0       31.9       -0.1       40.8       P       0.3         127.0       126.8       -0.2       40.8       P       0.3       31.0       30.9       -0.1       40.8       P       0.3         125.0       124.9       -0.1       40.8       P       0.3       30.0       29.9       -0.1       40.8       P       0.3         100.0       110.0       0.0       40.8       P       0.3       30.0       29.9       -0.1       40.8       P       0.3         100.0       110.0       0.0       40.8       P       0.3       30.0       29.9       -0.1       40.8       P       0.3         300.0       79.9       -0.1       40.8       P       0.3       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5							35.0	34.9	-0.1	±0.8	Р	
128.0       127.8       -0.2       -0.8       P       0.3         127.0       126.8       -0.2       -0.8       P       0.3         126.0       125.9       -0.1       40.8       P       0.3         126.0       125.9       -0.1       40.8       P       0.3         125.0       124.9       -0.1       40.8       P       0.3         120.0       119.9       -0.1       40.8       P       0.3         100.0       100       0.0       40.8       P       0.3         90.0       90.0       -0.1       40.8       P       0.3         90.0       90.0       -0.0       40.8       P       0.3         90.0       90.0       -0.0       40.8       P       0.3         90.0       90.0       -0.0       40.8       P       0.3         90.0       90.0       40.8       P       0.3         60.0       60.0       9       9.1       40.8       P       0.3         35.0       4.8       -0.2       40.8       P       0.3         35.0       34.8       -0.2       40.8       P       0.3							34.0	33.9	-0.1	±0.8	Р	0.3
127.0       126.8       -0.2       +0.8       P       0.3         126.0       125.9       -0.1       +0.8       P       0.3         125.0       124.9       -0.1       +0.8       P       0.3         120.0       119.9       -0.1       +0.8       P       0.3         110.0       100.0       0.0       +0.8       P       0.3         100.0       100.0       0.0       +0.8       P       0.3         100.0       100.0       0.0       +0.8       P       0.3         100.0       100.0       0.0       +0.8       P       0.3         30.0       70.9       -0.1       +0.8       P       0.3         60.0       60.0       0.0       +0.8       P       0.3         70.0       69.9       -0.1       +0.8       P       0.3         35.0       34.8       -0.2       +0.8       P       0.3         35.0       34.8       -0.2       +0.8       P       0.3         33.0       32.9       -0.1       +0.8       P       0.3         33.0       32.9       -0.1       +0.8       P       0.3 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>32.9</td> <td>-0.1</td> <td>±0.8</td> <td>Р</td> <td>0.3</td>								32.9	-0.1	±0.8	Р	0.3
125.0       124.9       -0.1       40.8       P       0.3         125.0       124.9       -0.1       40.8       P       0.3         120.0       119.9       -0.1       40.8       P       0.3         110.0       10.0       0.0       40.8       P       0.3         100.0       100.0       0.0       40.8       P       0.3         90.0       90.0       0.0       40.8       P       0.3         60.0       60.0       0.0       40.8       P       0.3         35.0       34.8       -0.2       40.8       P       0.3         33.0       32.9       -0.1       40.8       P       0.3         33.0       32.9       -0.1       40.8       P       0.3         33.0       32.9       -0.1       40.8       P       0.3										±0.8	Р	0.3
1250       124.9       -0.1       ±0.8       P       0.3         120.0       119.9       -0.1       ±0.8       P       0.3         110.0       10.0       0.0       ±0.8       P       0.3         100.0       100.0       0.0       ±0.8       P       0.3         00.0       0.0       ±0.8       P       0.3         80.0       79.9       -0.1       ±0.8       P       0.3         60.0       60.0       0.0       ±0.8       P       0.3         60.0       60.0       0.0       ±0.8       P       0.3         70.0       69.9       -0.1       ±0.8       P       0.3         60.0       0.0       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         33.0       32.9       -0.1       ±0.8       P       0.3         33.0       32.9       -0.1       ±0.8       P       0.3         32.0       31.8       -0.2       ±0.8       P       0.3         31.0       30.8											Р	
12.03       110.0       110.0       110.0       10.0							30.0	29.9	-0.1	±0.8	Р	0.3
1100       1100       0.0       ±0.8       P       0.3         100.0       100.0       0.0       ±0.8       P       0.3         90.0       90.0       0.0       ±0.8       P       0.3         80.0       79.9       -0.1       ±0.8       P       0.3         70.0       69.9       -0.1       ±0.8       P       0.3         60.0       0.0       ±0.8       P       0.3         50.0       49.9       -0.1       ±0.8       P       0.3         50.0       49.9       -0.1       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         33.0       32.9       -0.1       ±0.8       P       0.3         32.0       31.8       -0.2       ±0.8       P       0.3         31.0       30.8       -0.2       ±0.8       P       0.3												
1000       1000       0.0       ±0.8       P       0.3         90.0       90.0       0.0       ±0.8       P       0.3         80.0       79.9       -0.1       ±0.8       P       0.3         70.0       69.9       -0.1       ±0.8       P       0.3         60.0       60.0       0.0       ±0.8       P       0.3         50.0       49.9       -0.1       ±0.8       P       0.3         40.0       39.9       -0.1       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         33.0       32.9       -0.1       ±0.8       P       0.3         31.0       30.8       -0.2       ±0.8       P       0.3												
No.0       No.0       0.0       ±0.8       P       0.3         80.0       79.9       -0.1       ±0.8       P       0.3         70.0       69.9       -0.1       ±0.8       P       0.3         60.0       60.0       0.0       ±0.8       P       0.3         50.0       49.9       -0.1       ±0.8       P       0.3         40.0       39.9       -0.1       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         33.0       32.9       -0.1       ±0.8       P       0.3         32.0       31.8       -0.2       ±0.8       P       0.3         31.0       30.8       -0.2       ±0.8       P       0.3												
No.       79.9       0.1       ±0.8       P       0.3         70.0       69.9       -0.1       ±0.8       P       0.3         60.0       60.0       0.0       ±0.8       P       0.3         50.0       49.9       -0.1       ±0.8       P       0.3         40.0       39.9       -0.1       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         33.0       32.9       -0.1       ±0.8       P       0.3         32.0       31.8       -0.2       ±0.8       P       0.3         31.0       30.8       -0.2       ±0.8       P       0.3										R		
100       69.9       -0.1       ±0.8       P       0.3         60.0       60.0       0.0       ±0.8       P       0.3         50.0       49.9       -0.1       ±0.8       P       0.3         40.0       39.9       -0.1       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         33.0       32.9       -0.1       ±0.8       P       0.3         32.0       31.8       -0.2       ±0.8       P       0.3         31.0       30.8       -0.2       ±0.8       P       0.3												
40.0       39.9       -0.1       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         34.0       33.8       -0.2       ±0.8       P       0.3         33.0       32.9       -0.1       ±0.8       P       0.3         32.0       31.8       -0.2       ±0.8       P       0.3         31.0       30.8       -0.2       ±0.8       P       0.3					Р							
40.0       39.9       -0.1       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         34.0       33.8       -0.2       ±0.8       P       0.3         33.0       32.9       -0.1       ±0.8       P       0.3         32.0       31.8       -0.2       ±0.8       P       0.3         31.0       30.8       -0.2       ±0.8       P       0.3		60.0	0.0	±0.8	Р	0.3						
40.0       39.9       -0.1       ±0.8       P       0.3         35.0       34.8       -0.2       ±0.8       P       0.3         34.0       33.8       -0.2       ±0.8       P       0.3         33.0       32.9       -0.1       ±0.8       P       0.3         32.0       31.8       -0.2       ±0.8       P       0.3         31.0       30.8       -0.2       ±0.8       P       0.3	50.0	49.9	-0.1	$\pm 0.8$	Р	0.3						
34.0     33.8     -0.2     ±0.8     P     0.3       33.0     32.9     -0.1     ±0.8     P     0.3       32.0     31.8     -0.2     ±0.8     P     0.3       31.0     30.8     -0.2     ±0.8     P     0.3	40.0	39.9	-0.1	±0.8	Р	0.3						
33.0     32.9     -0.1     ±0.8     P     0.3       32.0     31.8     -0.2     ±0.8     P     0.3       31.0     30.8     -0.2     ±0.8     P     0.3	35.0	34.8	-0.2	±0.8	Р	0.3						
32.0         31.8         -0.2         ±0.8         P         0.3           31.0         30.8         -0.2         ±0.8         P         0.3	34.0	33.8	-0.2	$\pm 0.8$	Р	0.3						
31.0 30.8 -0.2 ±0.8 P 0.3	33.0	32.9	-0.1	$\pm 0.8$	Р							
	32.0											
30.0 29.8 -0.2 ±0.8 P 0.3												
第 6 页,共 9 页 数据页(Data sheet) ID: 071288	30.0	29.8	-0.2	±0.8	Р	0.3						

CEPREI				证书编号	클(Certificate No.):	2HB2300148	8-0003
		eighting Cha					
	率	实测值	理论值	误差	允许误差	结论	U
(Frequ		(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)
	(z)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
	0	-6.6	-6.2	-0.4	±2.0	Р	0.5
31	5	-4.7 -3.0	-4.4 -3.0	-0.3 0.0	+2.0 ~ -1.5	P	0.5
	.5 0	-3.0	-2.0	0.0	±1.5 ±1.0	P P	0.5
	0	-2.0	-2.0	0.0	±1.0 ±1.0	P P	0.5 0.5
	3	-0.8	-0.8	0.0	±1.0	P	0.5
8		-0.4	-0.5	0.1	±1.0	P	0.5
10		-0.2	-0.3	0.1	±1.0	Р	0.5
12		-0.1	-0.2	0.1	±1.0	P	0.5
16		0.0	-0.1	0.1	±1.0	Р	0.5
20		0.0	0.0	0.0	±1.0	Р	0.5
25		0.0	0.0	0.0	±1.0	Р	0.5
31		0.0	0.0	0.0	±1.0	Р	0.4
40		0.0	0.0	0.0	±1.0	Р	0.4
50		0.0	0.0	0.0	±1.0	Р	0.4
63		0.0	0.0	0.0	±1.0	P	0.4
80		0.0	0.0	0.0	±1.0	P	0.4
1000(	Ref.)	0.0	0.0	0.0	±0.7	Р	0.4
12		-0.1	0.0	-0.1	±1.0	Р	0.6
16		-0.2	-0.1	-0.1	±1.0	Р	0.6
20	00	-0.3	-0.2	-0.1	±1.0	Р	0.6
25	00	-0.5	-0.3	-0.2	±1.0	Р	0.6
31.	50	-0.8	-0.5	-0.3	±1.0	Р	0.6
40	00	-1.1	-0.8	-0.3	±1.0	Р	0.6
50	00	-1.5	-1.3	-0.2	±1.5	Р	0.6
63	00	-2.1	-2.0	-0.1	+1.5 ~ -2.0	Р	0.6
80	00	-3.0	-3.0	0.0	+1.5 ~ -2.5	Р	0.6
100	00	-4.3	-4.4	0.1	+2.0 ~ -3.0	Р	0.6
125	00	-6.2	-6.2	0.0	+2.0 ~ -5.0	Р	1.0
160	00	-10.4	-8.5	-1.9	+2.5 ~ -16.0	Р	1.0
200	00	-20.3	-11.2	-9.1	+3.0 ~ -∞	Р	1.0



Calibration Cert	ificate of Sound Calibrator
证书编号(Certificate No.); 2HB23001715-0001 <b>说 明</b>	<b>СЕРПЕ!</b> 证书编号(Certificate No.): 2HB23001715-0001
DIRECTIONS	1 外观与工作正常性检查 (Appearance and Function Check) 无影响证书中测量结果准确度的因素和缺陷。
<ol> <li>本机构质量管理体系符合ISO/IEC 17025:2017标准的要求,获得中国合格评定国家认可委员会( CNAS)认可,认可证书号为: CNAS L13344.</li> <li>This laboratory quality management system meets the ISO/IEC 17025:2017 and is accredited by the China National Accreditation Service for Conformity Assessment, No. CNAS L13344.</li> </ol>	2 声压级 (Sound Pressure Level)
<ol> <li>本机构出具的数据均可溯源到国际单位制(SI)单位和社会公用计量标准。</li> <li>The data issued by this laboratory is traceable to International system of Units (SI) and national primary standards.</li> </ol>	ノ 規定声压线 測量声压线 声压线差的绝对值 接受限 结论 U
<ol> <li>本次校准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes):</li> <li>1)G 176-2022 卢皮准器检定规程: Sound Pressure Level: 94dB. 104dB、114dB. 124dB(63Hz~8kHz); 94dB 、104dB、114dB(31:5Hz~16Hz): Frequency: 31:5Hz~16Hz; Harmonic Distortion: 0.13%~10%. (20Hz~</li> </ol>	() (Prescribed SPL) (Measured SPL) (Absolute value of SPL) (Limit) (Pass/Fail) (k=2)
<ul> <li>109405, 11405(21.5)/2 * 108/12); Frequency: 51.5)/2 * 108/12; Harmonic Distribution: 0.1% 10% (2012)</li> <li>20KHz)</li> <li>详细內容请查重CNAS网站中注册编号为L1334的证书解件。超出范围的內容未並认可,其结果/统论所依据的合格评定活动不在认可 范围内。(Please see the attachment of certificate No. L1334 at CNAS website for details, beyond which is not accredited, the conformity assessment activities on which the results/conclusions are based are outside the scope of accreditation.)</li> </ul>	(dB)       (dB)       (dB)       (dB)         94       93.86 $0.14$ $\leq 0.25$ P $0.10$
4. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration); 名称 证书号/有效期/溯源单位 技术指标 测量范围 (Description) (Certificate No./Due Date/Traceability to) (Specification) (Measuring Range)	3 频率 (Frequency)
前置放大器(2239843) GFJGJL1001230304185/2024-03-22/航空 频率响应:±0.1dB (10~50000) Hz 304所	規定頻率 测量频率 频率误差的绝对值 接受限 结论 Urel
数字多用表(MY4505167 GF/GJL1004230400378/2024-04-02/航天 4) 514所 DCV: ±8×10 <sup>6</sup> ; DCI: ±2× DCV: 10nV~1000V: 10 <sup>5</sup> ; ACV: ±0.02%,ACI: DCI: 1pA~1A; ACV	(Prescribed Fre.) (Measured Fre.) (Absolute value of Fre.) (Limit) (Pass/Fail) (k=2)
$\begin{array}{cccc} \pm 0.03\%_{6}R_{1} \pm 1\times10^{5} \mathrm{i} \ \mathrm{fi} \pm & \mathrm{i} & (100\mathrm{W}-700\mathrm{V}) \oplus (\\ 0.01\% & & H\mathrm{z}-2\mathrm{MHz}) \times \mathrm{ACL} \mathrm{i} \\ & (100\mathrm{pA}{\sim}1\mathrm{A}) \oplus (10 \\ \mathrm{Hz}{\sim}100\mathrm{KHz}) \ \mathrm{i} \ \mathrm{k} \times 10\mu \\ \Omega {\sim} - 1\mathrm{GR} \ \mathrm{i} \ \mathrm{Hz}{\sim}10 \end{array}$	(Hz)(Hz)(%)(%)10001003.7 $0.37$ $\leq 0.70$ P $0.10$
PULSE分析系统(3160-1         4GC23000528-0009/2024-08-16/赛宝(广州)         频率:U <sub>cef</sub> =0.001%_k-2;电压:         频率:0.001Hz~51.2kHz,           06540)	4 总失真+噪声 (Distortion and noise)
093) 304所 5. 校准地点(The calibration place):	規定声压级 规定频率 总失真+噪声 接受限 结论 Uret (Prescribed SPL) (Measured Fre.) (Distortion and noise) (Limit) (Pass/Fail) (k=2)
6. 环境条件(Environmental conditions):	(dB) (Hz) (%) (%) (%)
溫度(Temperature): 21.2℃ 相对湿度(Relative Humidity): 60%	94 1000 0.69 ≤2.50 P 5.0
7. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度的评定与表示》评定,由合成标准不确定度乘以包含概率约为95%时对应的包含因子k得到。 The extended uncertainty given in this certificate is evaluated according to JJF1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement", and is calculated by multiplying the combined standard uncertainty by the coverage factor k which corresponding to the coverage probability about 95%.	以下空白No data hereafter
8. 证书中"P"、"合格"代表"测量结果在允许范围内","F"、"不合格"代表"测量结果不在允许范围内","FNA"代表"不适用或技术指标着时元法确认等"。本证书报告的结论仅供参考,使用人员应结合实际测量结要求合理使用,如才最测量结果测量不确定度的影响等。 "P" and "Pass" in this certificate stand for "Low Limit's the measured value < High Limit', "I" and "Fail" stand for "the measured value < Low Limit or the measured value < High Limit', "INA" and for "Not Applicable or The technical specification has not been confirmed etc". The conclusions of this certificate are for reference only. Users should use them reasonably according to the actual measurement requirements, such as considering the impact of measurement uncertainty, etc.	<b>GEPREI</b>
9. 建议校准周期是本实验室依据本证书报告的技术依据和仪器设备常规使用条件给出的建议,供委托方参考。委托方可以根据实际使用情况自行决定样品的校准周期。	
	数据页(Data sheet) ID: 013393 第 5 页,共 5 页 Page of
第 3 页,共 5 页 Page of	

Catalo	ogue of Air Flow	/ Meter (	TSI T	A440)	)	Cali	bration (		ate of A	ir Flow	Meter
SPECIFICATION	s					*					
THERMAL ANEMO MODELS TA410, TA						<u></u>			E實驗室有限 29-35 Sha Tsui Road		
						CALIBRATION		0106 Email:	info@callab.com.h ite: www.callab.cor		ACCREDITED Certifiate #3815.01
Velocity Range (TA410) Range (TA430, TA440) Accuracy (TA410) <sup>162</sup>	0 to 20 m/s (0 to 4,000 ft/min) 0 to 30 m/s (0 to 6,000 ft/min) ±5% of reading or ±0.025 m/s	Time Constant (T User selectable External Meter D		0)				ted			
	(±5 ft/min), whichever is greater ±3% of reading or ±0.015 m/s (±3 ft/min), whichever is greater 0.01 m/s (1 ft/min)	8.4 cm x 17.8 cm x	4.4 cm (3.3 in.	x 7.0 in. x 1.8 in	1.)	Equipment Identifical Equipment Descriptio	n Manufactu			erial No.	Assigned equipment M
		0.27 kg (0.6 lbs.)				Air Velocity Monitor	TSI	AIRF	LOW TA440 T	A4401706003	AAST-FLOW-03
Duct Size (TA430, TA44 Dimensions	10) 1 to 635 cm in increments of 0.1 cm (1 to 250 inches in increments of 0.1 in.)	Meter Probe Dim Probe Length Probe Diameter of	101.6 Tip 7.0 m	ຣີ cm (40 in.) າm (0.28 in.)		Certificate Information Date of Receipt:	11 January 2				23.5°C, 58%RH, 1003hPa
Volumetric Flow Rate (	TA430, TA440)	Probe Diameter of I	Base 13.0	mm (0.51 in.)		Date of Calibration: Due Date of Calibratio	13 January 2 on: N/A	023	Adjustm Appeara		N/A Good
Range	Actual range is a function of velocity, and duct size	Articulating Prob Articulating Sectio Length		<b>is</b> cm (7.8 in.)		Calibration Procedure			Remark:		N/A
Temperature		Diameter of	9.5 m	nm (0.38 in.)		Reference Equipmen					
Range (TA410, TA430) Range (TA440) Accuracy <sup>3</sup> Resolution	-18 to 93°C (0 to 200°F) -10 to 50°C (14 to 140°F) ±0.3°C (±0.5°F) 0.1°C (0.1°F)	Articulating Knuckle Power Requirem Four AA-size batte	ents	oter		Equipment Descriptio Hot Wire Anemomete	er	Model 9535	Serial N T95351		Expiration Date 11 August 2024
		i our Art size butte	nes of ne dau	pter	·	Result of Calibration					
Relative Humidity (TA4 Range	5 to 95% RH		TA410	TA430, TA430-A	TA440, TA440-A	Air flow rate – Error of Reference reading	Measured reading		Uncertainty	Technical	Technical Reference
Accuracy <sup>4</sup>	±3% RH	Velocity range 0 to 20.00 m/s	÷.		1	(L/min)	(L/min)	Error (%)	(%FS)	Requirement	Doc.
Resolution	0.1% RH	(0 to 4000 ft/min) Velocity range			i -	0.5	0.51	2.0	3.6	± 5 % ± 5 %	JJG 956-2013 JJG 956-2013
Wet Bulb Temperature		0 to 30.00 m/s (0 to 6000 ft/min)		+	+	2.0	2.03	1.5	3.6	± 5 %	JJG 956-2013
Range Resolution	5 to 60°C (40 to 140°F) 0.1°C (0.1°F)	Temperature	+	+	(±1)	5.0	5.07	1.4	3.6	± 5 %	JJG 956-2013
		Flow		+	(*)						0
Dew Point (TA440 only Range	-15 to 49°C (5 to 120°F)	Humidity, wet bulb,			+						
Resolution	0.1°C (0.1°F)	dew point Probe	Straight	Straight or -A	Straight or -						
Instrument Temperatu	re Range	Variable time	and and the	articulated	articulated +						
Operating (Electronics)	5 to 45°C (40 to 113°F)	constant Manual									
Model TA410, TA430 Operating (Probe)	-18 to 93°C (0 to 200°F)	data logging Auto save		+							
Model TA440 Operating (Probe)	-10 to 60°C (14 to 140°F)	data logging			+						
Storage	-20 to 60°C (-4 to 140°F)	Statistics		+	+						
Data Storage Capabiliti	es (TA430, TA440)	Review data		+	+	Note1: The estimated expanded	uncertainties have been calco	ulated in "Evaluation	and expression of uncertain	ty in measurement" and g	give an internal estimated to have
Range	12,700+ samples and 100 test IDs	LogDat2 downloading		+	+	of confidence of 95%. A c Note2: The standard (s) and inst	overage factor of 2 is assume rument used in the calibratio	d unless explicitly stat	ed.		calibrated on a schedule to mainta
Logging Interval (TA43	0, TA440)	software Free Certificate			1	accuracy and good condit	tion.				n regarding the long term stability
1 second to 1 hour		of Calibration	*	+	() <b>+</b> ()	instrument.	alibration certificate relate on				
Specifications subject to change with	out notice.	<sup>1</sup> Temperature compensated <sup>2</sup> The accuracy statement b	l over an air tempera	ature range of S to 65	5°C (40 to 150°F).						abbin
TSI and the TSI logo are registered tra the Airflow logo and LogTat2 are trac	idemarks and Airflow.	for the Model TA410, and 1	30 ft/min through 6	1000 ft/min (1),000 ft/min (1),000 ft/min (0.15 m/s	0.15 m/s through 20 s through 30 m/s) for	Calibrated By:	Checked	and Approve	d By: Cor	npany Chop:	校正
ow ratio wiego and Loguetz are trac	ana ana sa 130 meni barante.	Models TA430 and TA440 <sup>®</sup> Accuracy with instrument	case at 25°C (77°F).			0	0	1.1			(二有限公司)
	FLOW UMENTS	for change in instrument 1 <sup>4</sup> Accuracy with probe at 25 change in probe temperate	ammaratura			Wing Cheng	Lome Warren		f Cer	tificate Issue Dat	e: 13 January 2023
Airflow Instruments, TSI In Visit our website at www.air	flowinstruments.co.uk for more information							*** End o	of Certificate ***		СТ-
UK Tel: +44 149 4 4		0				1. The certificate shall					bration CC02223
France Tel: +33 491 11 8											

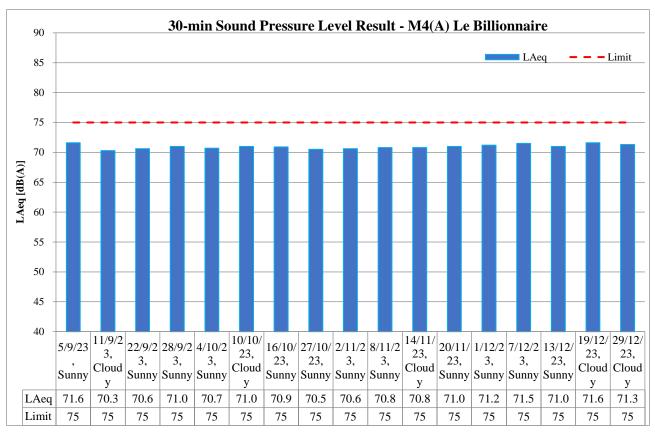
Appendix K – Noise monitoring results and graphical presentation

# M4(A) – Le Billionnaire

_	Temp	Wind	Weathe	Measured Noise Level at M4(A), dB(A)							
Date (°C)		Speed m/s	r		<b>Ti</b> r	ne	Baseline	L <sub>Aeq</sub>	L <sub>A10</sub>	L <sub>A90</sub>	Limit
1/12/2023	24.2	0.7	Sunny	9:20	-	9:50	69.5	71.2	72.7	70.0	75
7/12/2023	24.3	0.3	Sunny	13:10	-	13:40	69.5	71.5	72.4	70.1	75
13/12/2023	23.1	1.1	Sunny	14:00	-	14:30	69.5	71.0	72.3	69.4	75
19/12/2023	17.9	0.3	Cloudy	9:15	-	9:45	69.5	71.6	72.6	70.4	75
29/12/2023	23.6	0.9	Cloudy	9:10	-	9:40	69.5	71.3	72.9	70.2	75
					]	Maximum		71.6			
Minimum								71.0			
Average						71.3					

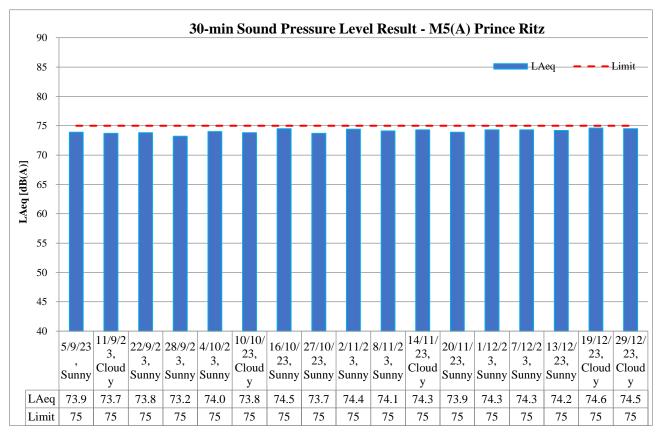
## M5(A) – Prince Ritz

	Temp	Wind	Weathe	Measured Noise Level at M5(A), dB(A)							
Date (°C)		Speed m/s	r	Time			Baseline	L <sub>Aeq</sub>	L <sub>A10</sub>	L <sub>A90</sub>	Limit
1/12/2023	24.2	1.3	Sunny	10:30	-	11:00	72.5	74.3	76.0	72.2	75
7/12/2023	24.3	1.7	Sunny	14:00	-	14:30	72.5	74.3	76.2	71.9	75
13/12/2023	23.1	1.6	Sunny	13:10	-	13:40	72.5	74.2	75.9	72.1	75
19/12/2023	17.9	1.3	Cloudy	15:30	-	16:00	72.5	74.6	76.3	72.9	75
29/12/2023	23.6	0.9	Cloudy	10:00	-	10:30	72.5	74.5	76.4	72.3	75
			Maximum		74.6						
						Minimum		74.2			
Average							74.4				



#### LAeq, 30-min graphical results of M4(A) – Le Billionnaire

### LAeq, 30-min graphical results of M5(A) - Prince Ritz



		Reportin	g Period	
Major Construction Activities	Sep	Oct	Nov	Dec
	2023	2023	2023	2023
Construction works for DCS	$\checkmark$	✓	✓	✓
Construction of Underpinning of S14	$\checkmark$			
Construction of Retaining Wall Type 1 for S14	$\checkmark$	✓	✓	✓
Construction of Pile Cap for S14	$\checkmark$	✓	✓	✓
Construction works for SMH404 and SMH505	$\checkmark$	✓	✓	✓
Construction of Permanent Shaft Structure of SB-01			✓	✓
Demolition of bearing wall of S14		✓	✓	
Dismantling Falsework and Portal Frame at LW-02				✓
Modification works for Rising Main chamber WOC1, AVC2 and K1	$\checkmark$	✓	✓	
Modification Works for Rising Main chamber K1				✓
Installation of post tensioning anchorage system at LW-02			✓	✓
Erection of falseworks and working platform for decking of Elevated Walkway LW-02	$\checkmark$	~	~	~
RTBM dismantle	$\checkmark$	✓		
RC construction for decking of Elevated Walkway LW-02	$\checkmark$	✓	√	✓
RC construction for Subway KS10 Lift and Staircase	$\checkmark$			
RC construction works for lift and staircase of LW-02	$\checkmark$	✓	✓	✓
Renovation works for Subway KS10 Lift and Staircase		✓	√	✓
Renovation works for existing subways KS9, KS32 and KS10	$\checkmark$	✓	✓	✓
Road and Drain Construction works for Road L16, Commercial Street and Road D1	$\checkmark$	~	~	~
Road and drain construction works for Olympic Avenue	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$

	Reporting Period					
Factors might affect the monitoring results	Sep	Oct	Nov	Dec		
	2023	2023	2023	2023		
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~		

# Appendix L – Event and Action Plan for noise

<b>F</b> 4	Action							
Event	ET	IEC	Supervisor / ER	Contractor				
Action Level being exceeded	<ol> <li>Notify Supervisor / ER, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, Supervisor / ER and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> <li>(The above actions should be taken within 2 working days after the exceedance is</li> </ol>	<ol> <li>Review the investigation results submitted by the ET;</li> <li>Review the proposed remedial measures submitted by the Contractor and advise the ER accordingly;</li> <li>Advise the Supervisor / ER on the proposed remedial measures.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified.)</li> </ol>	3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;	<ol> <li>Submit noise mitigation proposal to IEC and Supervisor / ER;</li> <li>Implement noise mitigation proposals.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified.)</li> </ol>				
Limit Level being exceeded	<ol> <li>identified.)</li> <li>Inform IEC, Supervisor /ER, Contractor and EPD;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Identify source and investigate the cause of exceedance;</li> <li>Carry out analysis of Contract's working procedure;</li> <li>Discuss remedial measures required with the IEC, Contractor and Supervisor /ER;</li> <li>Assess effectiveness of</li> </ol>	<ol> <li>Discuss the potential remedial actions with Supervisor /ER, ET and Contractor;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified.)</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures;</li> <li>If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC and Supervisor /ER within 3 working days of notification;</li> <li>Implement the agreed proposal;</li> <li>Submit further proposal if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.</li> <li>(The above actions should be</li> </ol>				

Event	Action							
Event	ET	IEC	Supervisor / ER	Contractor				
	Contractor's remedial		exceedance until the	taken within 2 working days				
	actions and keep IEC,		exceedance is abated.	after the exceedance is				
	EPD, and Supervisor /ER		(The above actions should be	identified.)				
	informed of the results;		taken within 2 working days after					
	8. If exceedance stops, cease		the exceedance is identified.)					
	additional monitoring.							
	(The above actions should be							
	taken within 2 working days							
	after the exceedance is							
	identified.)							

**Appendix M – Event and Action Plan for Landscape and Visual Impact** 

Event	Action						
Event	ET	IEC	Supervisor / ER	Contractor			
Design Check	1. Check final design conforms to the requirements of EP and prepare report.	<ol> <li>Check report.</li> <li>Recommend remedial design if necessary.</li> </ol>	<ol> <li>Undertake remedial design if necessary.</li> </ol>				
Non-conformity on one occasion	<ol> <li>Identify Source.</li> <li>Inform IEC and Supervisor /ER.</li> <li>Discuss remedial actions with IEC, Supervisor /ER and Contractor.</li> <li>Monitor remedial actions until rectification has been completed.</li> </ol>	Contractor on possible remedial measures.	<ol> <li>Notify Contractor.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	<ol> <li>Amend working methods.</li> <li>Rectify damage and undertake any necessary replacement.</li> </ol>			
Repeated Non-conformity	<ol> <li>Identify Source.</li> <li>Inform IEC and Supervisor /ER.</li> <li>Increase monitoring frequency.</li> <li>Discuss remedial actions with IEC, Supervisor /ER and Contractor.</li> <li>Monitor remedial actions until rectification has been completed.</li> <li>If non-conformity stops, cease additional monitoring.</li> </ol>	method. 3. Discuss with ET and Contractor on possible remedial measures.	<ol> <li>Notify Contractor.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	<ol> <li>Amend working methods.</li> <li>Rectify damage and undertake any necessary replacement.</li> </ol>			

Appendix N – Waste Flow Table

	Actual Quantities of Inert C&D Materials Generated Monthly					Actu	al Quantities o	f C&D Wastes	Generated Mo	onthly			
Month	Total Quantity Generated A + B	Broken Concrete Generated A	General fill Generated B	Broken Concrete Reused in the Contract	General Fill Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Import Fill	Metals	Paper / Cardboard Packaging	Plastics (3)	Chemical Waste	Other, e.g. general refuse
	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m <sup>3</sup> ]
JAN	0.67	0.00	0.67	0.00	0.09	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.01
FEB	0.81	0.00	0.81	0.00	0.08	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.01
MAR	0.79	0.00	0.79	0.00	0.08	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.01
APR	1.18	0.00	1.18	0.00	0.09	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.01
MAY	1.01	0.00	1.01	0.00	0.09	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.01
JUNE	0.23	0.00	0.23	0.00	0.05	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.01
SUB- TOTAL	4.69	0.00	4.69	0.00	0.48	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.06
JULY	0.30	0.00	0.30	0.00	0.06	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.01
AUG	0.90	0.00	0.90	0.00	0.06	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.01
SEPT	0.56	0.00	0.56	0.00	0.05	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.01
OCT	0.72	0.00	0.72	0.00	0.06	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.01
NOV	2.48	0.00	2.48	0.00	0.06	0.00	2.42	0.00	0.00	0.00	0.00	0.00	0.01
DEC	2.37	0.00	2.37	0.00	0.05	0.00	2.32	0.00	0.00	0.00	0.00	0.00	0.01
TOTAL	12.02	0.00	12.02	0.00	0.82	0.00	11.20	0.00	0.00	0.00	0.00	0.00	0.12

## MONTHLY SUMMARY WASTE FLOW TABLE FOR \_\_\_\_\_\_ (YEAR)

**Appendix O – Environmental Mitigation Implementation Schedule** (EMIS)

EIA Ref	Recommended Mitigation Measures	Implementation			n
Part B	Water Quality	Not Observed	Yes	No	Remark
S8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include use of sediment traps and adequate maintenance of drainage systems to prevent flooding and overflow				
S8.8	Construction site should be provided with adequately designed perimeter channel and pre- treatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.				
S8.8	Construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.				
S8.8	Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m <sup>3</sup> capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.				
S8.8	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Ø			
S8.8	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.	V			
S8.8	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms. Particular attention should be paid to the control of silty surface runoff during storm events.	Z			
S8.8	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	V			
S8.8	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.				
S8.8	Drainage On-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There should be no direct discharge of effluent from the site into the sea.	Ø			
S8.8	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.				
S8.8	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters of the Victoria Harbour WCZ	N			
S8.8	Sewage Effluent Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets should be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor should also be responsible for waste disposal and maintenance practices.	N			
S8.8	Stormwater Discharges Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes	A			
S8.8	Debris and Litter In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of contract, to ensure that site management	V			

EIA Ref	Recommended Mitigation Measures	In	npleme	entatio	n
	is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur				
S8.8	Construction Works at or in Close Proximity of Storm Culvert or Seafront The proposed works should preferably be carried out within the dry season where the flow in the drainage channel /storm culvert/ nullah is low.	V			
S8.8	The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm culvert / nullah.	V			
S8.8	Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works.	V			
S8.8	Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.		V		
S8.8	Construction debris and spoil should be covered up and/ <del>or disposed</del> of as soon as possible to avoid being washed into the nearby water receivers		V		
S8.8	Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	V			
S8.8	Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts. Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.				
S8.8	Construction effluent, site run-off and sewage should be properly collected and/or treated.	$\checkmark$			
S8.8	Any works site inside the storm water courses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the storm water quality.	V			
S8.8	Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to accidental spillage of construction materials.	$\checkmark$			
S8.8	Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	V			
S8.8	Supervisory staff should be assigned to station on site to closely supervise and monitor the works		$\mathbf{N}$		
Part C C	onstruction Noise Impact	Not Observed	Yes	No	Remark
S7.8	Use of quiet PME, movable barriers for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump		$\checkmark$		
S7.9	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible.		Þ		
	Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. Plant known to emit noise strengly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.	Ø			
	Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.	V			
Part D W	/aste / Chemical Management	Not Observed	Yes	No	Remark
S5.2	Prepare a Waste Management Plan, which becomes a part of the Environmental Management Plan, in accordance with the requirements stipulated in ETWB TC(W) No. 19/2005, approved by the Engineer/Supervising Officer of the Project based on current practices on construction sites		V		
	Training of site personnel in site cleanliness, proper waste management and chemical waste handling procedures		$\checkmark$		
	Provision of sufficient waste disposal points and regular collection for waste. Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers	V			
	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. Separation of chemical wastes for special handling and appropriate treatment	V			
S9.5	1)Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site		V		
	2)Training of site personnel in proper waste management and chemical waste handling procedures 3)Provision of sufficient waste disposal points and regular collection for disposal				
	<ul> <li>4)Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers</li> <li>5)A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites)</li> </ul>				

EIA Ref	Recommended Mitigation Measures	In	npleme	entatio	n
S9.5	<ul> <li>Waste Reduction Measures</li> <li>1) Sort C&amp;D waste from demolition of the remaining structures to recover recyclable portions such as metals</li> <li>2) Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal</li> <li>3) Encourage collection of aluminum cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force</li> <li>4) Any unused chemicals or those with remaining functional capacity should be recycled</li> <li>5) Proper storage and site practices to minimize the potential for damage or contamination of construction materials</li> </ul>				
S9.5	Construction and Demolition Material Mitigation measures and good site practices should be incorporated into contract document to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include: 1) Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the transient stockpiles should be located away from waterfront or storm drains as far as possible 2) Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric 3) Skip hoist for material transport should be totally enclosed by impervious sheeting 4) Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site 5) The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores 6) The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle 7) All dusty materials should be ensure for any leading, unleading or transfor operation so as to maintain the dusty materials wet				
S9.5	When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 "Trip Ticket System for Disposal of Construction	Ø			
S9.5	Chemical Waste After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation	V			
Part E L	andscape & Visual	Not Observed	Yes	No	Remark
S13.9	CM1 - All existing trees should be carefully protected during construction. <del>CM2</del> Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work <del>CM3</del> - Control of night-time lighting. CM4 - Erection of decorative screen hoarding.				
Part F A	ir Quality	Not Observed	Yes	No	Remark
S6.8	Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.		$\mathbf{N}$		
S6.8	Misting for the dusty material should be carried out before being loaded into the vehicle.	V			
S6.8	Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin.				
S6.8	The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary before transportation				
S6.8	The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways insider the site. On-site unpaved roads should be compacted and kept free of lose materials		$\checkmark$		
S6.8	Vehicle washing facilities should be provided at every vehicle exit point	V			
S6.8	The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.		$\mathbf{N}$		
S6.8	Every main haul road should be-scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet.		$\checkmark$		

EIA Ref	Recommended Mitigation Measures	In	npleme	entatio	n
S6.8	Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides.		V		
S6.8	Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.		V		
S6.5	8 times daily watering of the work site with active dust emitting activities.		V		

Appendix P – Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

## **Reporting Month: December 2023**

Contract No.	Record of Complaint (Yes/No)	Record of Warning (Yes/No)	Notification of Summons and Successful Prosecutions (Yes/No)
ED/2018/05	No	No	No

## Cumulative Statistics on Complaints, Notification of Summons and Successful Prosecutions upto reporting month

Contract No.	Record of Complaint	<b>Record of Warning</b>	Notification of Summons and Successful Prosecutions
ED/2018/05	1	0	0