#### 17-2-2024

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 Submission of Monthly EM&A Report for January 2024 (Version 1.1)

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 January 2024, 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: 16 February 2024 Your ref: Our ref: PL-202402035

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 <u>Verification of Monthly EM&A Report (January 2024)</u>

Reference is made to the Monthly EM&A Report (January 2024) (Version 1.1) issued by the Environmental Team on 16 February 2024.

Please be informed that we have no adverse comment on the captioned submission. We hereby verify the Monthly EM&A Report (January 2024) 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

January 2024

(Version 1.1)

Certified By:	pm.
	(Environmental Team Leader)

### **Table of Content**

# Page

EXECU	TIVE SUMMARY	5
	Breaches of Action and Limit Levels	5
	Complaint log	5
	Notifications of summons and successful prosecutions	6
	Report changes	6
	Key construction works in the reporting month	6
	Future key issues	7
1.	INTRODUCTION	8
	Project Background	8
	Project Organization	9
	Works Area and Construction Programme	9
	Construction works undertaken during reporting month	10
	Submission Status under the Environmental Permits	10
2.	AIR QUALITY MONITORING	11
	Monitoring Requirements	11
	Monitoring Locations	11
	Monitoring Parameters, Frequency and Duration	11
	Monitoring Equipment	12
	Monitoring Methodology and QA/QC Procedure	12
	Wind Data Monitoring	15
	Action and Limit Levels	15
	Impact Air Quality Monitoring results	15
3.	NOISE MONITORING	17
	Monitoring Requirements	17
	Monitoring Locations	17

	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 1.3Summary 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 2.4Action 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 2.6Summary of 24-hour average TSP Monitoring Data during the reporting month
- Table 2.7Summary 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 6.4Summary 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 36<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 January 2024.

#### **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

Devenenter	No. of Ex	A atian Talan	
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.

Tuble III Summary of summons and successful prosecutions in the Reporting Month				
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 2A5B and 2A10
- Road and drain construction works at Olympic Avenue
- Renovation works for Subway KS10 Lift and Staircase
- Renovation works for existing subways KS10
- Construction of Retaining Wall Type 1 for S14
- Construction of Pile Cap for S14
- Construction works for SMH404 and SMH505

#### <u>Future key issues</u>

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

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 LW02 Pile Cap PC-1	Noise and Air Quality
Construction of LW02 structural steel roof	Noise and Air Quality
Construction of Permanent Shaft Structure of SB-01	Noise and Air Quality
Backfilling of SB01 Zone B	Noise and Air Quality
Demolition of Pile Cap of additional staircase at SB01	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:

Table 1.2 Major	activities of	f the Prop	ject during	reporting month

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	Renovation works for Subway KS10 Lift and
LW-02	Staircase
RC Construction for Decking of Elevated	Renovation works for existing subways KS10
Walkway LW-02	Kenovation works for existing subways KS10
RC Construction of LW02 Lift and Staircase	Construction of Retaining Wall Type 1 for S14
Installation of post tensioning anchorage system	Construction of Pile Cap for S14
at LW-02	Construction of the Cap for 514
Construction of Permanent Shaft Structure of	Construction works for SMH404 and SMH505
SB-01	
Road and Drain Construction works for Road	Construction works for DCS 2A5B and 2A10
L16, Commercial Street and Road D1	

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

 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	Condition 2.3 Updated Management Organization of Main Construction Companies	
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 (Dec 2023)	19 Jan 2024

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
AM3 – Sky Tower	Podium Floor near Tower 7	-	1-hour average TSP	-	1 hour	-	Three times every 6 days

Table 2.2 Air Quality Monitoring Parameters, Frequency and Duration

- 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.

#### **Monitoring Equipment**

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	Equipment Model		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-hourTSPDustTSIModelAM510SidePakPersonalAerosMeterMonitor		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 μm 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. Metton and Ennit Bereis of 27 nour average 151 for Construction Dast Montoring						
Parameter	Air Monitoring	Action Level,	Limit Level,			
	Station	$\mu g/m^3$	$\mu g/m^3$			
24 hour avanage TCD	AM2(A)	175	260			
24-hour average TSP	AM3	172	260			

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

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

#### **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.

Air Quality Monitoring Station	Average TSP Concentration, $\mu g/m^3$	Range, µg/m <sup>3</sup>	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM2(A)	73	26 - 140	175	260
AM3	93	74 - 116	172	260

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

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)	72	32 - 141	302	500
AM3	82	66 - 100	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)	I I and	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.

note 5.4 Dusenne Noise Devel una neuon una Einit Devels for Construction Noise Montoring							
Time Period	Noise Monitoring Station	Baseline Noise Levels, dB (A)	Action Level	Limit Level ^			
0700 – 1900 hrs	M4(A)	69.5	When one	75 ID(A)			
on normal weekdays	M5(A)	72.5	documented complaint is received.	75 dB(A)			

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> <sup>min,</sup> Range, dB(A)	Action Level	Limit Level <sup>^</sup>
M4(A)	73.0	72.2 - 73.9	When one documented	75
M5(A)	74.5	74.4 - 74.7	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

Air Quality Monitoring Station	ASR No. in EIA report	Predicted C Maximum 24-ho concen Scenario 1 (Mid 2009 to Mid 2013), µg/m <sup>3</sup>	-	Measured 24-hr average TSP in Reporting Month (Jan 2024) µg/m <sup>3</sup>
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	26 - 140
AM3 - Sky Tower	A40^	106^	138^	74 – 116

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 (Jan 2024) µg/m <sup>3</sup>
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	32-141
AM3 - Sky Tower	A40^	217^	247^	66 - 100

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 LAeq, 30min, dB(A)	Measured Noise Level in Reporting Month (Jan 2024) L <sub>Aeq, 30min</sub> , dB(A)
M4(A) – Le Billionnaire	NA	NA	72.2 - 73.9
M5(A) – Prince Ritz	NA	NA	74.4 - 74.7

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 4, 11, 18 and 25 January 2024 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
4 Jan 2024	NA	NA	NA
11 Jan 2024	NA	NA	NA
18 Jan 2024	NA	NA	NA
25 Jan 2024	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.

- 6.2 Site inspections were conducted 4, 11, 18 and 25 January 2024 in the reporting month.
- 6.3 The summaries of site audits are attached in Table 6.1.

Inspectio n Date Key Observations	Recommendations / Actions
--------------------------------------	---------------------------

Table 6.1 Summary of site inspections observations during the reporting month

Inspectio n Date	Key Observations	Recommendations / Actions	Close-out Date / Status
4 Jan 2024	Observation: Saw dust generated from sawing machine @LW01 shall be removed timely to reduce dust emissions.	Action Taken: Saw dust generated from sawing machine has been removed.	Closed out on 11 Jan 2024
11 Jan 2024	Observation:	Action Taken: Stockpiles has been fully covered by impermeable sheeting to reduce dust emission.	Closed out on 18 Jan 2024

Inspectio n Date	Key Observations	Recommendations / Actions	Close-out Date / Status
	Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.		
18 Jan 2024	Observation: The NRMM label for the crane is missing. Please ensure the label is properly demonstrated.	Action taken: The NRMM label for the crane has been properly demonstrated.	Closed out on 25 Jan 2024
25 Jan 2024	Observation: Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.	Action taken:         Stockpiles has been removed.	Closed out on 1 Feb 2024

#### **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.

<u>Idole 6.2 Summary of Environmental Licenses, Notifications and Permits</u>				
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	
Westewater Discharge License under	WT00037618-2021	29 Mar 2021	31 Mar 2026	
Wastewater Discharge License under WPCO	WT00037370-2021	29 Mai 2021		
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.

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

Table 6.3 Summary of complaints in the Reporting Month

Date of complaint received	Date of compliant	Description of complaint	Recommendations / Action taken	Close-out date / Status
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.

Tuble 0.4 Summ	dole 0.4 Summary of summons and successful prosecutions in the Reporting Month				
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 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:

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

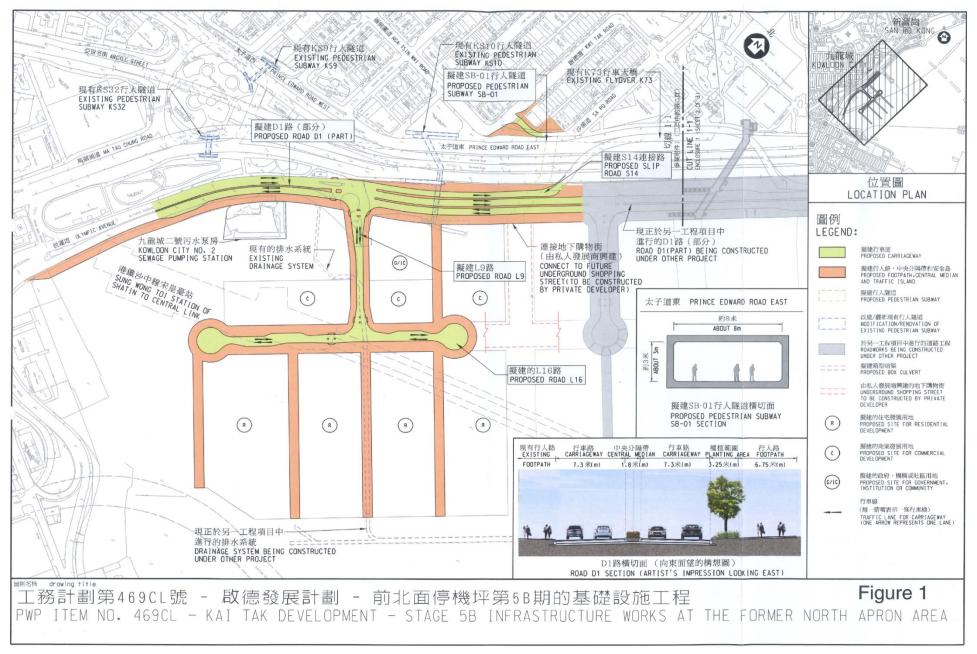


Figure 1 - Proposed works of Contract No. ED/2018/05

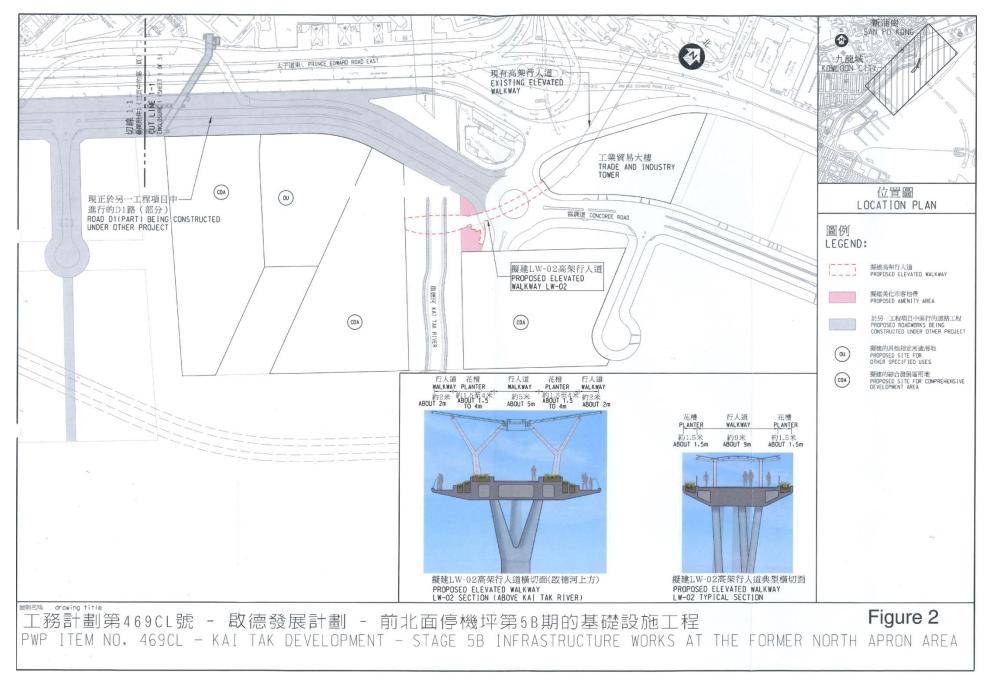


Figure 2 – Proposed works of Contract No. ED/2018/05

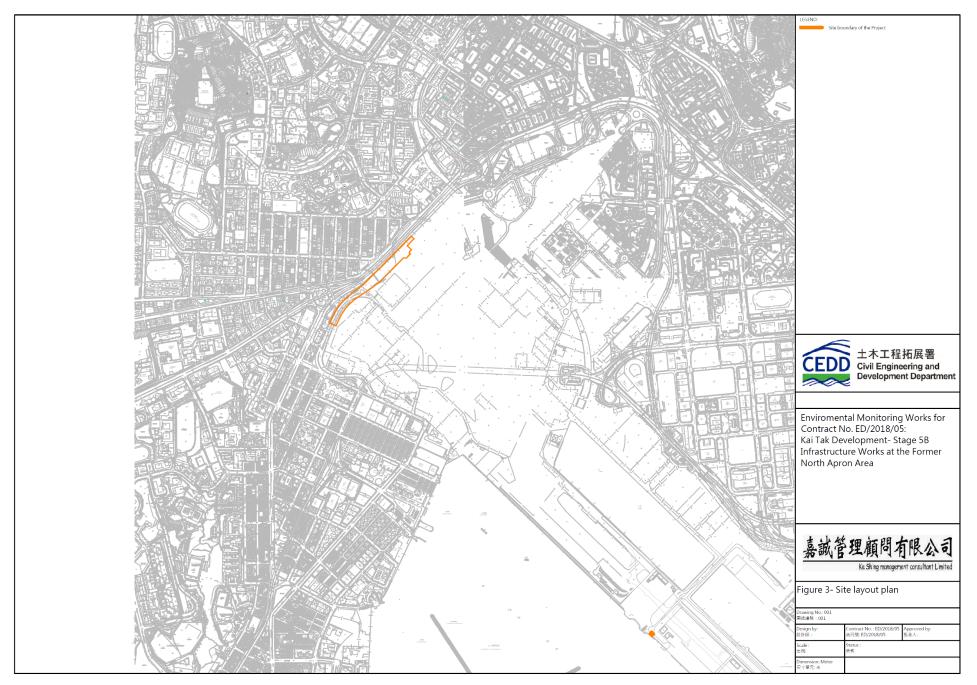


Figure 3 – D1 Road Site Layout Plan

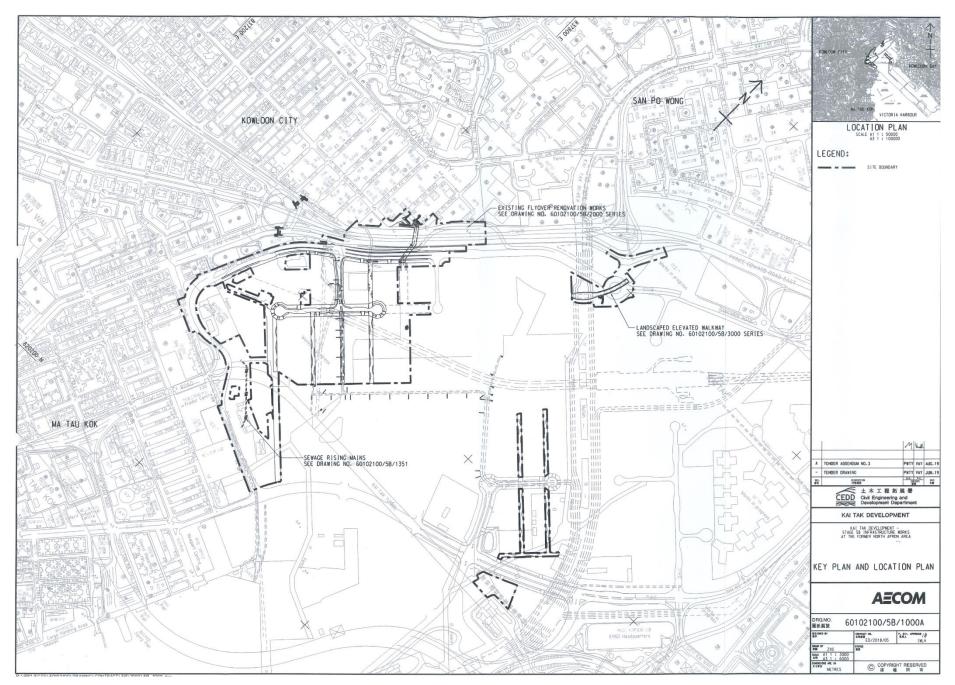


Figure 4 – Site Layout Plan

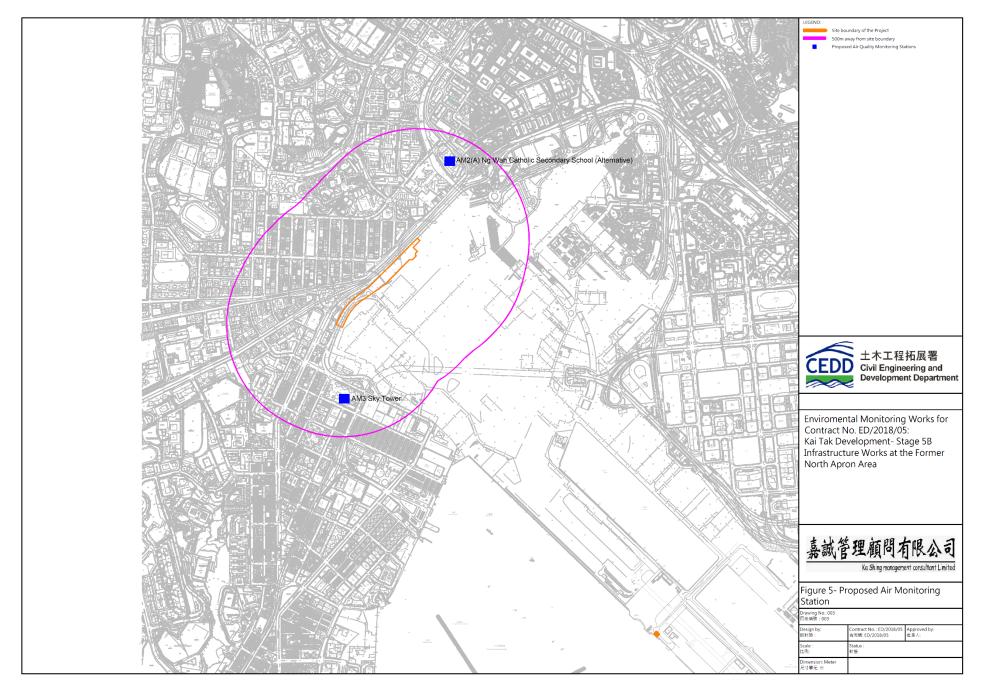


Figure 5 – Air Quality Monitoring Stations

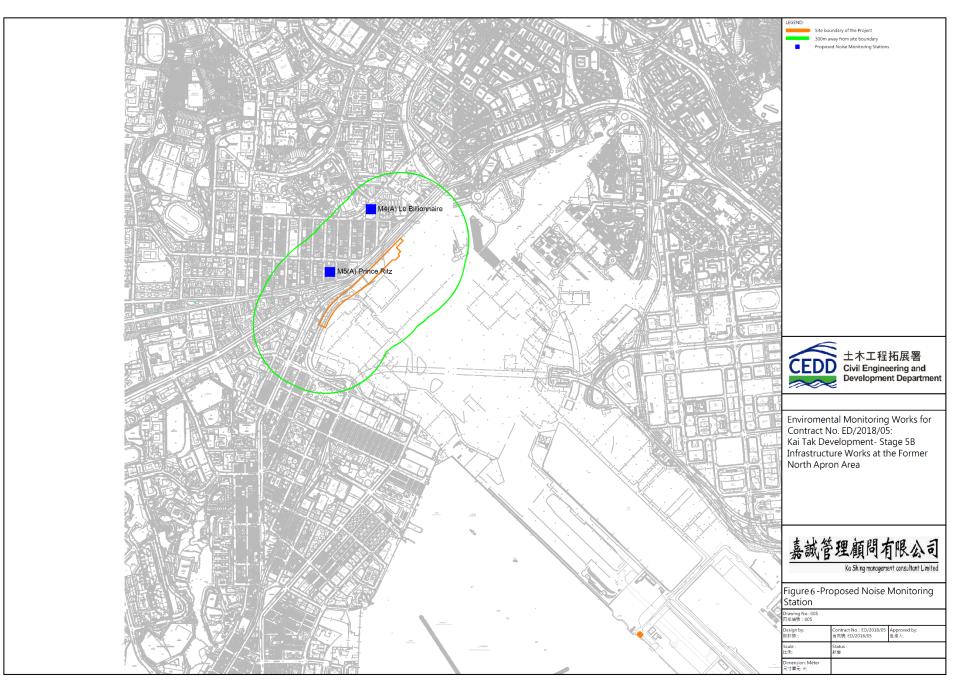
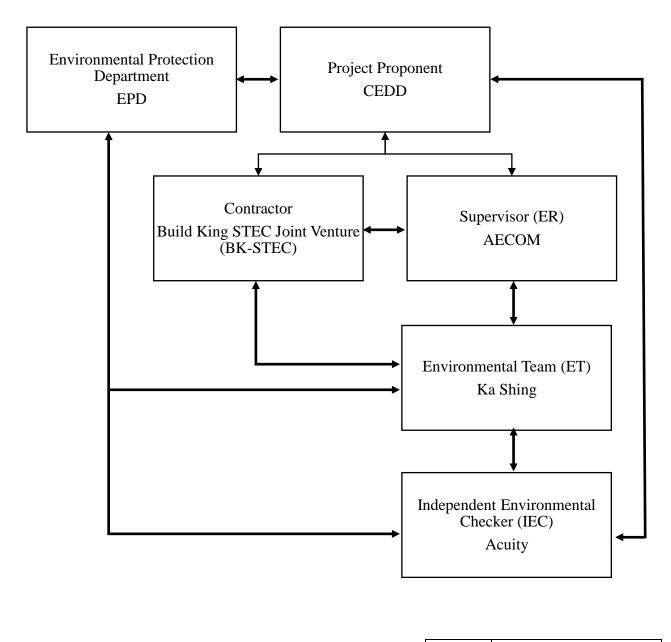
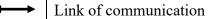


Figure 6 – Noise Monitoring Stations

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





# **Appendix B – Construction Programme**

D for D and	Activity Name	Dur (d)	Early Sta	t Early Finish	Late Start	Late Finish	Total Float	Calendar		ON	DJF	MAI	2021 NJJ	ASO	ND.	FM		JASC	NDJF	202 MAMJ	JASC	N
/P for Rev-41	We will be a set of the	1762	22-Jul-20	30-Jun-26	22-Jul-20	30-Jun-26	0	- Colored							-1-1-		1-1-1	91.191	140011			1
KEY DATES KTD.KD.1000	Contract date	2170	22-Jul-20	30-Jun-26	22-Jul-20	30-Jun-26	0	2		-	-	+	+	-	-					+ +		
KTD.KD.1010	Contract starting date	0	22-Jul-20		22-Jul-20		0	2	3		1	1					1					•••
TD.KD.1020	Contract completion date	0	31-Jul-20		31-Jul-20		0	2	-7		+	-	-		-							
CCESS DATES	connact companion date	0		30-Jun-26		30-Jun-26	0	2		T		TT				-				-††-		-1
TD.KD.1030	Parts 1, 1A, 1B, 2, 3, 4, 7, 8 and 9	1429	31-Jul-20	29-Jun-24		29-Jun-24	0	2		1		11		1		-		-			-	
D.KD.1040	Part 5	0	31-Jul-20		31-Jul-20		0	2	7			T	1									
D.1050	Part 6	0	30-Jun-22		30-Jun-22		0	2					Ш.				4					
D.KD.1060	Part 6A	0	29-Jun-24		29-Jun-24		0	2				11		1								
KD.1070	Works Areas WA1, WA2, WA3, WA4, WA5, WA6 and WA7	0	30-Jun-21		30-Jun-21		0	2					H									
D.KD.1080	Part 10 and Works Area WA4A	0	31-Jul-20		31-Jul-20		0	2	-			T								1		1
TD.KD.1090	Works Area WA8	0	29-Jan-21		29-Jan-21		0	2			-		Ш									
Ser Burkey		0	31-Jul-22		31-Jul-22		0	2		T								•7				1
D.KD.1100	L COMPLETION DATES	1826	30-Jun-21	30-Jun-26	30-Jun-21	30-Jun-26	0	2						-		-			<del></del>	++	-+	+
D.KD.1110	Section 1:Compl of all works within Parts 1 and 8 and Elevated Landscaped Walkway LW-02	0		26-Sep-23		26-Sep-23	0	2				11				-				1	-	1
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-26	546	2					11	1								
	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-23	0	2		T	T	11								††-		-
D.KD.1130	Section 4:Compl of all UU and services within Part 4	0		30-Jun-21		30-Jun-21	0	2					-	1								
ID.KD.1140	Section 5:Compl of all UU and services within Part 3, rising mains diversion & demolition of ext. structures	0		17-Dec-21		17-Dec-21	0	2		11		11			-7				····	†		-
0.KD.1150	Section 6:Compl of all works within Part 2 and Part 10	0		29-Mar-22		29-Mar-22	0	2								-						
D.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-24	0	2		1	1	11								tret		1
D.KD.1170	Section 8:Compl of all Box Culvert B1 within Parts 1 and 3 and diversion and abandon works	0		29-Jul-21		29-Jul-21	0	2					-7									
TD.KD.1180	Section 9:Compl of DCS works within Parts 1 and 1A (Subj to excision within 239days from starting date)	0		26-Sep-23		26-Sep-23	0	2		1		tt		1						+		-
D.KD.1190	Section 10:Compl of establ work for all landscape works(except Sections 14, 15 and 16)	0		26-Dec-24		26-Dec-24	0	2														
CTD.KD.1200	Section 11:Compl of all works within Part 4 (Subj to excision within 244days from starting date)	0		25-Feb-24		25-Feb-24	0	2		1		11-								+		-
TD.KD.1210	Section 12:Compl of all SB-01 within Part 1A	0		25-Sep-24		25-Sep-24	0	2														
ID.KD.1220	Section 13:Compl of all works within Part 6	0		31-Dec-24		30-Jun-26	546	2		+		++-		<u> </u>				·····		·		-
D.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-25		24-Feb-25	0	2														
D.KD.1240	Section 15:Compl of estab work for landscape works within Part 4 (Subj to excision within 244days from starting date)	0		24-Feb-25		24-Feb-25	0	2		÷		++								+		-
TD.KD.1250	Section 16:Compl of establ work for landscape works within Part 6	0		30-Jun-26		30-Jun-26	0	2														
D.KD.1260	Section 17:Compl of establ work for landscape works under Section 1	0		25-Sep-24		25-Sep-24	0	2	••••			+								·		ļ.,
VICTOR DE LA CONTRACTOR DE	PERMIT APPLICATION & APPROVAL	240	22-Jul-20	18-Mar-21	04-Oct-20	30-Jun-26	1930	2	V	Ļ.												
ID.KD.1270	Prepare/submission of temporary works design	30	22-Jul-20	20-Aug-20	04-Oct-20	02-Nov-20	74	2		-		<u> -</u>	•••••							+		
D.KD.1280	Consultation/approval of temporary works design	60	21-Aug-20	19-Oct-20	03-Nov-20	01-Jan-21	74	2										1				
D.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	20-Aug-20	03-Nov-25	02-Dec-25	1930	2		+												<b>ï</b>
D.KD.1300	Consult/approve Temp Gedechnical&Structural Works by HyD/TD/CEDD/GEO and others (incl SB-01 by RTBM, etc.)	120	21-Aug-20	18-Dec-20	03-Dec-25	01-Apr-26	1930	2										1				
D.KD.1310	Prepare/submission of Temporary Dainage and Sewerage Management Plan to DSD/CEDD and others	30	22-Jul-20	20-Aug-20	02-Apr-26	01-May-26	2080	2		-65-		<b>}</b>	·							·····		<b>.</b>
TD.KD.1320	Consultation/approval of Temporary Drainage and Sewerage Management Plan by DSD/CEDD and others	60	21-Aug-20	19-Oct-20	02-May-26	30-Jun-26	2080	2														
KTD.KD.1330	Application/approval of CNP for night works by relevant authorities and liaison with projects nearby	90	19-Dec-20	18-Mar-21	02-Apr-26	30-Jun-26	1930	2		-		₩-	·····			·				·		-
D.KD.1340	Application/approval of permits or other statutory submissions by relevant authorities (i.e. CEDD, HyD, WSD, XPMS & EPD)	180	31-Jul-20	26-Jan-21	02-Jan-26	30-Jun-26	1981	2														
IPORARY TRAFFIC N	MANGEMENT	240	31-Jul-20	27-Mar-21	18-Sep-20	30-Jun-26	1921	2	-iii			·								<u> </u>		<b> </b>
D.KD.1370	Prepare/Submit/Consult/Approval of TTA for loading/unloading at Sa Po Road and Concorde Road roundabout	60	31-Jul-20	28-Sep-20	20-Aug-21	18-Oct-21	385	2	-													
D.KD.1380	Prepare/Submit/Consult/Approval of TTA for working platform erection crossing Concorde Road roundabout	90	29-Sep-20	27-Dec-20	25-Jun-22	22-Sep-22	634	2				·	·· <mark>·</mark> ····			••••						ļ.
.KD.1390	Prepare/Submit/Consult/Approval of TTA for GV diversion/preliminary works at PERE and Sa Po Road	90	31-Jul-20	28-Oct-20			1921	2				11							1			
D.KD.1400	Prepare/Submit/Consult/Approval of TTA for 2-staged Sa Po Road and PERE W/B diversion	90	30-Aug-20	27-Nov-20	03-Dec-25	02-Mar-26	1921	2		-						╋						
0.KD.1410	Prepare/Submit/Consult/Approval of TTA for road and drainage works along Olympic Avenue	120	28-Nov-20	27-Mar-21			1921	2										1	1			
KD.2180	1st TMLG Meeting	0		18-Sep-20	1000	18-Sep-20	0	2				ļ		- <b>  </b> -		<b>.</b>						
KD.2220	2nd TMLG Meeting	0		19-Nov-20		19-Nov-20	0	2														
KD.2230	3rd TMLG Meeting	0		15-Jan-21		14-Jan-21	0	2		· [;						<b>.</b>				ļļ		
D.KD.2240	4th TMLG Meeting	0		23-Mar-21		23-Mar-21	0	2														
STRUCTION HEALTH	HAND SAFETY MANAGEMENT	1801	22-Jul-20	26-Jun-25		26-Jun-25	0	2														
.KD.1420	Prepare/submit of Draft Safety Plan	13		03-Aug-20		04-Aug-20	1	2						1								T
D.KD.1430	Prepare/submit Safety Plan	21				25-Aug-20	1	2				ļ.,										
D.KD.1440	Conduct meeting to discuss Draft Safety Plan	0		03-Aug-20				2														
D.KD.1450	Prepare/submit Site Traffic Safety Management Plan	41				03-Aug-20	0													ļļ		
KD.1460	Prepare/submit Construction Health and Safety Plan	29				01-Sep-20	1															
D.KD.1470	1st SSMC Meeting	1		0227.		20-Aug-20	0	2														
TD.KD.1480	2nd SSMC Meeting					26-Aug-20	0	2														
			23-Sep-20	23-Sep-20	23-Sep-20	23-Sep-20	0	2						1								
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	Revision		Ch	ocke		1	An	nue el	
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VV	orks Programme			-		RL			
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tivity ID	Activity Name	Dur (d)	Early Start	Early Finish	Late Start	Late Finish	Total ( Float					2021			202			202	3			2024			2	025		2026	
KTD.KD.1490	3rd SSMC Meeting	1	29-Oct-20		29-Oct-20	29-Oct-20	0	2	JAS		FMAM	JJA	SONE	JFM	AMJJ	ASON	DJFM	AMJ	JASO	NDJ	FMA	MJJ	ASOI	DJF	MAMJ	JASC	NDJ	FMAMJ	JJ.
KTD.KD.1500	4th SSMC Meeting	1	26-Nov-20	26-Nov-20	26-Nov-20	26-Nov-20	0	2																					
KTD.KD.1510	5th SSMC Meeting	1	31-Dec-20	31-Dec-20	31-Dec-20	31-Dec-20	0	2					·				·+	······					· · · ·						
KTD.KD.1520	6th SSMC Meeting	1	28-Jan-21	28-Jan-21	28-Jan-21	28-Jan-21	0	2		1																			1
KTD.KD.1530	7th SSMC Meeting	1	25-Feb-21	25-Feb-21	25-Feb-21	25-Feb-21	0	2					+		+++		·+	······					<b>.</b>						. <b> </b>
KTD.KD.1540	8th SSMC Meeting	1	24-Mar-21	24-Mar-21	24-Mar-21	24-Mar-21	0	2																					
KTD.KD.1550	9th SSMC Meeting	1	29-Apr-21	29-Apr-21	29-Apr-21	29-Apr-21	0	2			·			<b>₩+</b> -				·····					· · · · ·		/	<u> </u>			
KTD.KD.1560	10th SSMC Meeting	1	27-May-21	27-May-21	27-May-21	27-May-21	0	2																		1			1
KTD.KD.1570	11th SSMC Meeting	1	24-Jun-21	24-Jun-21	24-Jun-21	24-Jun-21	0	2					+	·····			·	·····							/	<b>↓</b>			. <b> </b>
KTD.KD.1580	12th SSMC Meeting	1	29-Jul-21	29-Jul-21	29-Jul-21	29-Jul-21	0	2																					
KTD.KD.1590	13th SSMC Meeting	1	26-Aug-21	26-Aug-21	26-Aug-21	26-Aug-21	0	2					÷	÷			·							<b>.</b>	/	<b> </b>  -			
KTD.KD.1600	14th SSMC Meeting	1		1000	30-Sep-21		0	2																			İ		ł
KTD.KD.1610	15th SSMC Meeting	1			28-Oct-21		0	2					÷													<b></b>			
KTD.KD.1620	16th SSMC Meeting	1			25-Nov-21		0	2																					1
KTD.KD.1630	17th SSMC Meeting	1			30-Dec-21		0	2					<b>.</b>					ļ.								<u> </u>			
KTD.KD.1640	18th SSMC Meeting	1			27-Jan-22		0	2																					
KTD.KD.1650	19th SSMC Meeting	1			24-Feb-22	THE CONTRACTOR	0						Ļ	ļ., .															
KTD.KD.1660	20th SSMC Meeting	1			31-Mar-22			2																					
KTD.KD.1670	21st SSMC Meeting						0	2					<u>i</u>	ļ.,,															
KTD.KD.1680	22nd SSMC Meeting	1			28-Apr-22		0	2																		T			
KTD.KD.1690	23rd SSMC Meeting	1			26-May-22	8	0	2																					
KTD.KD.1700	23th SSMC Meeting	1			30-Jun-22		0	2																					
KTD.KD.1710	25th SSMC Meeting	1			28-Jul-22		0	2																					1
KTD.KD.1720		1			25-Aug-22		0	2								1													1
KTD.KD.1730	26th SSMC Meeting	1			29-Sep-22		0	2								(													
	27th SSMC Meeting	1	27-Oct-22	27-Oct-22	27-Oct-22	27-Oct-22	0	2								1	1								1				1
KTD.KD.1740	28th SSMC Meeting	1	24-Nov-22	24-Nov-22	24-Nov-22	24-Nov-22	0	2								1													
KTD.KD.1750	29th SSMC Meeting	1	29-Dec-22	29-Dec-22	29-Dec-22	29-Dec-22	0	2									1							1		[]			1
KTD.KD.1760	30th SSMC Meeting	1	26-Jan-23	26-Jan-23	26-Jan-23	26-Jan-23	0	2									1	1											
KTD.KD.1770	31st SSMC Meeting	1	23-Feb-23	23-Feb-23	23-Feb-23	23-Feb-23	0	2									1 1								11				1
KTD.KD.1780	32nd SSMC Meeting	1	30-Mar-23	30-Mar-23	30-Mar-23	30-Mar-23	0	2																					
KTD.KD.1790	33rd SSMC Meeting	1	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	0	2							111		1	1											1
KTD.KD.1800	34th SSMC Meeting	1	25-May-23	25-May-23	25-May-23	25-May-23	0	2										1											
KTD.KD.1810	35th SSMC Meeting	1	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	0	2									11	1				-11				·			1
KTD.KD.1820	36th SSMC Meeting	1	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	0	2																					
KTD.KD.1830	37th SSMC Meeting	1	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	0	2			TT				1		11	·····								r en			·
KTD.KD.1840	38th SSMC Meeting	1	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23	0	2											i										1
KTD.KD.1850	39th SSMC Meeting	1	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	0	2			T				1-1-1		††								++	r t			
KTD.KD.1860	40th SSMC Meeting	1	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	0	2																					
KTD.KD.1870	41st SSMC Meeting	1	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23	0	2		-							$+\cdots+$			$\mathbf{T}$				<u> </u>	·  ······	r+-			
KTD.KD.1880	42nd SSMC Meeting	1	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24	0	2																					
KTD.KD.1890	43rd SSMC Meeting	1	29-Feb-24	29-Feb-24	29-Feb-24	29-Feb-24	0	2			111						$\uparrow$								++	/			
KTD.KD.1900	44th SSMC Meeting	1	28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24	0	2																	1				
KTD.KD.1910	45th SSMC Meeting	1	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	0	2						·····			+				···-				·				
KTD.KD.1920	46th SSMC Meeting	1	30-May-24	30-May-24	30-May-24	30-May-24	0	2										1											1
KTD.KD.1930	47th SSMC Meeting	1	27-Jun-24	27-Jun-24	27-Jun-24	27-Jun-24	0	2						+			<u> </u>						-++						<u> </u>
KTD.KD.1940	48th SSMC Meeting	1	25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24	0	2																					
KTD.KD.1950	49th SSMC Meeting	1	29-Aug-24	29-Aug-24	29-Aug-24	29-Aug-24	0	2									<u> </u>												ļ
KTD.KD.1960	50th SSMC Meeting	1	26-Sep-24	26-Sep-24		26-Sep-24	0	2																					1
KTD.KD.1970	51st SSMC Meeting	1		31-Oct-24		31-Oct-24	0	2		• • • • • • • • • • • • • • • • • • • •		•		+			┝							<u> -</u>					ļ
KTD.KD.1980	52nd SSMC Meeting	1		28-Nov-24		28-Nov-24	0	2								1													1
KTD.KD.1990	53rd SSMC Meeting	1		26-Dec-24		26-Dec-24	0	2						<b>├</b> - <b> </b> - -			+								l				
KTD.KD.2000	54th SSMC Meeting	1				30-Jan-25		2								1													
KTD.KD.2010	55th SSMC Meeting					27-Feb-25	~	2						····			<b>├</b> ───-								<u> </u>				Į
KTD.KD.2020	56th SSMC Meeting				27-Mar-25			2																	]				1
KTD.KD.2030	57th SSMC Meeting			S she have been a	24-Apr-25			2				<b>-</b>		<u>+</u>	- .i		ļ							<u>,     _ '</u>	<u> </u>				ļ
KTD.KD.2040	58th SSMC Meeting	10			29-May-25			2																					
KTD.KD.2050	59th SSMC Meeting			26-Jun-25			0					<b> </b>  . .		ļ.   .			ļļ.												1
BIM RELATED DELIVER		1615			26-Jun-25 01-Aug-20	26-Jun-25	548	2																	1				
State of the second sec		1013	or durdt	011260324	010 Jug-20	00-0011-20	546	2								1		i			:			7					
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▼ Milestone	Planned Work					Rev.													ate	-		vision			Checked			Approved	8
Critical Milestone	10 Distance of the second s	ED/2018/05 Kai Tak De	velopm	ient - S	Stage 5E	B Infrast	tructu	re Wo	rks a	at the l	Forme	er No	rth A	pron	Area			30-No				ogrami		HL			RL		
0.11.10	ng Work	1			14100													29-De	C-23	W	ric Pri	ogrami	ma	HL		,	RL		
Critical Remainin	IIG WOIK				WOR	<b>KS PR</b>	DGRA	MME										05-Fel				ogrami		HL			RL		

	Activity Name	Dur (d)	Early Star	Early Finish	Late Start	Late Finish	Total Float	Calendar		so	ND	JFI	MAN		AS		DJ	FM	AM	2022 J J A :	SON	JIFIM	20
KTD.KD.2060	Prepare/submit BIM Execution Plan	29	31-Jul-20	28-Aug-20	01-Aug-20	29-Aug-20	1	2	-		T		11								+		
KTD.KD.2070	Prepare/submit Combined Services Drawings and CBWD generated from BIM	44	31-Jul-20	12-Sep-20	01-Aug-20	13-Sep-20	1	2		1	Ш												
KTD.KD.2080	Prepare/submit proposal of asset information requirement	364	31-Jul-20	29-Jul-21	01-Aug-20	30-Jul-21	1	2	-			1								1		1	
KTD.KD.2090	Prepare/submit Asset Data Deliverables for Section 1	60	29-Jul-23	26-Sep-23	02-May-26	30-Jun-26	1008	2			Ш												
KTD.KD.2100	Prepare/submit Asset Date Deliverables for Section 2	60	02-Nov-24	31-Dec-24	02-May-26	30-Jun-26	546	2			11-	1	11							1	-	1	
KTD.KD.2110	Prepare/submit Asset Date Deliverables for Section 3	60	29-Oct-23	27-Dec-23	02-May-26	30-Jun-26	916	2			Ш												
KTD.KD.2120	Prepare/submit Asset Date Deliverables for Section 4	60	02-May-21	30-Jun-21	02-May-26	30-Jun-26	1826	2	-	•		1							11		· [·····	÷	·
KTD.KD.2130	Prepare/submit Asset Date Deliverables for Section 5	60	19-Oct-21	17-Dec-21	02-May-26	30-Jun-26	1656	2			Ш												
KTD.KD.2140	Prepare/submit Asset Date Deliverables for Section 6	60	29-Jan-22	29-Mar-22	02-May-26	30-Jun-26	1554	2		-	·   + ·	·	-								······	÷	······
KTD.KD.2150	Prepare/submit Asset Date Deliverables for Section 7	60	28-Dec-23	25-Feb-24	02-May-26	30-Jun-26	856	2			Ш												
KTD.KD.2160	Prepare/submit Asset Date Deliverables for Section 8	60	31-May-21	29-Jul-21	02-May-26	30-Jun-26	1797	2	<b>.</b>			·	·++··		4							÷	
KTD.KD.2170	Prepare/submit Asset Date Deliverables for Section 9	60	29-Jul-23	26-Sep-23	02-May-26		1008	2			Ш												
KTD.KD.2190	Prepare/submit Asset Date Deliverables for Section 11	60	28-Dec-23	25-Feb-24	02-May-26		856	2	<b>.</b>	· .						ļ						<u> </u>	
KTD.KD.2200	Prepare/submit Asset Date Deliverables for Section 12	60						2			Ш		11				1						
	•		28-Jul-24	25-Sep-24	02-May-26		643					į										Į	
KTD.KD.2210	Prepare/submit Asset Date Deliverables for Section 13	60	02-Nov-24	31-Dec-24	02-May-26		546	2			Ш						1						
	CEME DROP-OFF SCHEDULE	832	31-Jul-20	094vov-22		09-1459-22	0	2			Ϊİ.									1			
KTD.VE.1000	Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01	488	31-Jul-20	30-Nov-21	31-Jul-20	30-Nov-21	0	2			Ħ	:											
KTD.VE.1010	Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01	488	31-Jul-20	30-Nov-21	31-Jul-20	30-Nov-21	0	2			44												
KTD.VE.1020	Review/prepare/submit VE scheme for piling arrangement for new pier of existing Bridge K73	671	31-Jul-20	01-Jun-22	31-Jul-20	01-Jun-22	0	2				1	1	1	-					1		†i	
KTD.VE.1030	Review/prepare/submit VE scheme for piling arrangement for abutment of Slip Road S14	832	31-Jul-20	09-Nov-22	31-Jul-20	09-Nov-22	0	2				24		1			1			-	-		
KTD.VE.1050	Review/prepare/submit VE scheme for piling arrangement for lift shaft and staircase of LW-02	631	31-Jul-20	22-Apr-22	31-Jul-20	22-Apr-22	0	2									···;···			·+			
VIL AND STRUCTURAL V	VORKS	1321	22-Jul-20	31-Dec-24	01-Aug-20	30-Jun-26	441				₩.		11		_		1						
GENERAL AND PRELIMI		1313	31-Jul-20	31-Dec-24	01-Aug-20	30-Jun-26	441				ļļ.						ļ					ļ	
KTD.GW.1000	General and preliminary works (inclu site formation, site set-up, access, temp drain. sys, ground investigation and etc)	1200	31-Jul-20	15-Aug-24	15-Jun-21	30-Jun-25	257	1			Ш												
		100000									11.											J	
KTD.GW.1010	Construction, maintenance and removal of ICA, EVA, Crowd Dispersal Route and other temporary access	1313	31-Jul-20	31-Dec-24	22-Jan-21	30-Jun-25	144	1			Ħ		11		_		1	-		1	1	1	
KTD.GW.1020	Prepare/submit site arrangement plan (inclu hoarding, project sign board and security arrangement)	13	31-Jul-20	12-Aug-20	01-Aug-20	13-Aug-20	1	2															
KTD.GW.1030	Design/submit/approval site layout plan and Contractor's site accommodation using MiC method	44	13-Aug-20	25-Sep-20	14-Aug-20	26-Sep-20	1	2			П						1						
KTD.GW.1040	Construct foundation and erect Contractor's site accommodation	76	26-Sep-20	29-Dec-20	27-Mar-26	30-Jun-26	1629	1	4	÷¢	Ħ	i					i						
KTD.GW.1050	TreeSurvey	27	31-Jul-20	26-Aug-20	01-Aug-20	27-Aug-20	1	2	-	1	11		T				1			+		<u> </u>	
KTD.GW.1055	Initial tree survey report and tree felling application	120	27-Aug-20	24-Dec-20	10-Nov-20	09-Mar-21	75	2			H1						1						
KTD.GW.1056	Obtain tree felling permit from relevant authorities	77	25-Dec-20	11-Mar-21	10-Mar-21	25-May-21	75	2			-		11-							·		<u> </u>	
KTD.GW.1060	Tree felling works at Sa Po Road to facilitate construction of road diversion (Stage 1, 9 nos.)	12	12-Mar-21	25-Mar-21	26-May-21	08-Jun-21	58	1				L.											
KTD.GW.1061	Tree felling works at Sa Po Road to faciltate existing utilities diversion works (5 nos.)	7	09-Jun-21	17-Jun-21	09-Jun-21	17-Jun-21	0	1	<b></b>	-	•		11				··· .						
KTD.GW.1065	Tree felling worksat Kai Tak Area	60	28-Dec-20	11-Mar-21	18-Apr-26	30-Jun-26	1571	1						ť I									
KTD.GW.1070	Protection to retained trees and tree transplating works	234	27-Aug-20	12-Jun-21	13-Sep-25	30-Jun-26	1497	1			11										.	ļļ	
		1242			03-Aug-20	1. With the second	0				tt.		11										
	DESTRIAN SUBWAY SB-01	1242	22-Jul-20				U	ada a		Щ.	Π.									1			
	IISSIONS FOR PEDESTRIAN SUBWAY SB-01	330	06-Jan-21		30-May-21	10-Jul-22	221	2			Ш												
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	07-Mar-21	05-Apr-21	29-Jul-21	27-Aug-21	144	2			Ш	6								1			
KTD.SB.SUBM.1020	Consult/obtain approval of ELS Design for Launching Shaft @Kai Tak Area by AECCM	45	06-Apr-21	20-May-21	28-Aug-21	11-Oct-21	144	2							,						1		
KTD.SB.SUBM.1030	Prepare ELS Design for Retreiving Shaft @Sa Po Road	60	28-Feb-21	28-Apr-21	23-Aug-21	21-Oct-21	176	2		1	11		ij.				1	1	1	1		i i i	
KTD.SB.SUBM.1040	Review/comment ELS Design for Retreiving Shaft @Sa Po Road and obtain ICE certificate	30	29-Apr-21	28-May-21	22-Oct-21	20-Nov-21	176	2			Ш		-							1	1		
KTD.SB.SUBM.1050	Consult/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	+-+	-			- 1					····		+	·		
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									I			1			
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	<b>.</b>	8		[				-				+	·		}
	,	60				06-Sep-21	150	2									1	-	1		1		
KTD SB SURM 1080	Prepare/submit HvD B&S Submission for precast linion and m-alignment to HvD B&S		00 Feb 24	09.404.24	09-11/24		100	2														ļļ	
KTD.SB.SUBM.1080	Prepare/submit HyD B&S Submission for precast lining and re-alignment to HyD B&S		09-Feb-21	09-Apr-21	09-Jul-21		450	0	11 11 1 1 1		11	ľ								1	1		
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					3 1 H	1 T			1		1 1	3	á.	- 1	
KTD.SB.SUBM.1090 KTD.SB.SUBM.1100	Consult/obtain AIP of HyD B&S Submission for precast lining and re-alignment by HyD B&S Consult/obtain DDA of HyD B&S Submission for precast lining and re-alignment by HyD B&S	60 169	10-Apr-21 09-Jun-21	08-Jun-21 24-Nov-21	07-Sep-21 06-Nov-21	05-Nov-21 23-Apr-22	150 150	2 2										1.1		1	1		
KTD,SB.SUBM.1090 KTD,SB.SUBM.1100 APPLICATION FOR WORK	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																	
KTD.SB.SUBM.1090 KTD.SB.SUBM.1100	Consult/obtain AIP of HyD B&S Submission for precast lining and re-alignment by HyD B&S Consult/obtain DDA of HyD B&S Submission for precast lining and re-alignment by HyD B&S	60 169	10-Apr-21 09-Jun-21	08-Jun-21 24-Nov-21	07-Sep-21 06-Nov-21	05-Nov-21 23-Apr-22																	
KTD,SB.SUBM.1090 KTD,SB.SUBM.1100 APPLICATION FOR WORK	Consult/obtain AIP of HyD B&S Submission for precast lining and re-alignment by HyD B&S Consult/obtain DDA of HyD B&S Submission for precast lining and re-alignment by HyD B&S NG VISA OF MAINLAND WORKERS FOR PEDESTRIAN SUB WAY SB-01	60 169 334	10-Apr-21 09-Jun-21 25-Nov-21	08-Jun-21 24-Nov-21 24-Oct-22	07-Sep-21 06-Nov-21 03-Jan-22	05-Nov-21 23-Apr-22 26-Oct-22	150 2	2										<u></u>					
KTD.SB.SUBM.1090 KTD.SB.SUBM.1100 APPLICATION FOR WORK KTD.SB.VISA.1000	Consult/obtain AIP of HyD B&S Submission for precast lining and re-alignment by HyD B&S Consult/obtain DDA of HyD B&S Submission for precast lining and re-alignment by HyD B&S NG VISA OF MAINLAND WORKERS FOR PEDESTRIAN SUB WAY SB-01 Prepare/submit/approval working visa for segment construction workers	60 169 334	10-Apr-21 09-Jun-21 25-Nov-21 25-Nov-21	08-Jun-21 24-Nov-21 24-Oct-22 22-Feb-22	07-Sep-21 06-Nov-21 03-Jan-22 03-Jan-22	05-Nov-21 23-Apr-22 26-Oct-22 02-Apr-22	150 2 39	2 2 2															
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Critical Remaining Work

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	Activity Name	Dur (d)	Early Star	Early Finish	Late Start	Late Finish	Total Float	Calendar			JFI	AM	2021	SON	DJF	MAM	JJA	SON	DJFM	
Contraction and a second second second second	ANUFACTURING AND DELIVERY OF RTBM & FABRICATION OF PRECAST UNITS	619	22-Jul-20	22-Aug-22	06-Aug-20	30-Sep-22	33		Y	Ħ	1	Î		11	:				1	1
KTD.SB.PDF.1000	Design RTBM and associated equipment (cradle, back thrust wall and etc.)	339	22-Jul-20	25-Jun-21	06-Aug-20	10-Jul-21	15	2			1								1	
KTD.SB.PDF.1010	Procurement and manufacture RTBM and associated equipment	340	26-Jun-21	31-May-22	11-Jul-21	15-Jun-22	15	2					-							1
KTD.SB.PDF.1011	Conduct FAT for RTBM and associated equipment	1	01-Jun-22	01-Jun-22	16-Jun-22	16-Jun-22	15	2		Ш						-				
KTD.SB.PDF.1020	Complete RTBM manufacturing, packing and deliver to HK	70	02-Jun-22	10-Aug-22	17-Jun-22	25-Aug-22	15	2		111		TT		1					1	1
KTD.SB.PDF.1030	Design/submit/approve steel mould for precast segment construction	73	01-Sep-21	12-Nov-21	06-Oct-21	17-Dec-21	35	2		Ш			1							
KTD.SB.PDF.1040	Procurement and manufacture steel mould and associated equipment	67	13-Nov-21	18-Jan-22	18-Dec-21	22-Feb-22	35	2			· [ -	TT	h				h		÷	÷
KTD.SB.PDF.1050	Deliver steel mould and associated equipment to HK	28	19-Jan-22	15-Feb-22	23-Feb-22	22-Mar-22	35	2		ш					Ę_					
KTD.SB.PDF.1060	Assemble steel mould on casting yard	10	16-Feb-22	26-Feb-22	23-Mar-22	02-Apr-22	30	1	<b></b>		· ····	+++		H			-		. <u>+</u>	ļ
KTD.SB.PDF.1070	Design/submit/approve gantry and associated equipment	20	26-Oct-21	14-Nov-21	29-Dec-21	17-Jan-22	64	2		ш					1 I f					
KTD.SB.PDF.1080	Procurement and manufacture gantry and assoicated equipment	34	15-Nov-21	18-Dec-21	18-Jan-22	20-Feb-22	64	2	<b></b>	╋		44.					-			ļ
KTD.SB.PDF.1090	Pack/deliver gantry and associated equipment to HK	11	19-Dec-21	29-Dec-21	21-Feb-22	03-Mar-22	64	2		Ш										
KTD.SB.PDF.1100	Excavale/compact/cast gantry footing at Casting Yard	34	10-Nov-21	13-Dec-21	06-Jan-22							44.	<b></b>	ų. <u>[</u>	7		ļ		ļ!	ļ
			1			08-Feb-22	57	2		Ш										
KTD.SB.PDF.1110	Install gantry rail to footing and construct hard pavement for Casting Yard	20	14-Dec-21	08-Jan-22	09-Feb-22	03-Mar-22	43	1				11			1					
KTD.SB.PDF.1120	Bakfill and compact rockfill layer for segment storage at Casting Yard	6	10-Jan-22	15-Jan-22	14-Apr-22	23-Apr-22	77	1		Ш					≈ų.					[ ]
KTD.SB.PDF.1130	Install gantry structure and assoicated equipment at Casting Yard and SAT	26	10-Jan-22	11-Feb-22	04-Mar-22	02-Apr-22	43	1		Ш										
KTD.SB.PDF.1140	Cut-and-bend rebar delivery and trial fix for precast segment construction	14	28-Feb-22	15-Mar-22	04-Apr-22	23-Apr-22	30	1				IT	T T						††	
KTD.SB.PDF.1150	Submit/approval for CNP for working on Sunday and Holiday for casting precast segments	45	30-Jan-22	15-Mar-22	10-Mar-22	23-Apr-22	39	2		Ш										
KTD.SB.PDF.1160	Construct precast segments (49nos, 3days/unit, Working on Sunday & Holiday)	160	16-Mar-22	22-Aug-22	24-Apr-22	30-Sep-22	39	2	1			11							÷	
PEDESTRIAN SUBW	IAY SB-01 AT KAI TAK AREA	1016	22-Jul-20	20-Dec-23	03-Aug-20	25-Sep-24	226	1		ш	+ +				-	11		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		29-Jan-21	12	2				H							ļ	
KTD.SB.1010	Conduct seismic geophysical survey for PERE (Night time, Iane-by-Iane, 11 night shift) and Kai Tak Area (Day time)	15	04-Nov-20	20-Nov-20		11-Aug-21	212	1			T								1	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	<b></b>		;	1		ļ			<u>   </u>		Į]	ļ
					- cancensorchi															
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												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		Ш			3							
KTD.SB.1050	Compact and formate the pile removal area for existing haul road diversion and install instrumentation	36	25-Jun-21	06-Aug-21	30-Jun-21	11-Aug-21	4	1					-							
KTD.SB.1060	Conduct diversion of existing 11kV cables by CLP	52	28-Jun-21	27-Aug-21	30-Jun-21	30-Aug-21	2	1				TT	-	1				-	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		Ш										
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				11	-	<u>i</u>			h	+	+-+	
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		l l l l l	÷	+++		-				·	<u> </u>	
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						E.						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				44.	<b> </b>						Ļ	
KTD.SB.1120	Install Strut 3 and Excavate (Strut 3@+0.0mPD to Strut 4@-2.5mPD, 1300m3 exca)	20	01-Dec-21	23-Dec-21	03-Dec-21	28-Dec-21	2	1		Ш										
KTD.SB.1130	Install Strut 4 and Excavate (Strut 4@-2.5mPD to Strut 5@-5.0mPD, 1300m3 exca)	20										44.							<u> </u>	
			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	15-Feb-22	22-Jan-22	17-Feb-22	2	1						1	12					
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-C				[	
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		Ш					- 4					
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				IT I						1	<u> </u>	
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								4				
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	Ir		1	tt i		1		5			$\vdash$	
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								-				
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	<b></b>			+++	+++	÷+				·	<u></u>	
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									9			
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			ļ	44		<b>.</b>					ļļ	
																	-			
KTD.SB.1240	Construct RC structure of wall and top slab with opening for RTBM Launching Works (up to 1.6mPD, 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										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	24-Oct-22	03-Oct-22	26-Oct-22	2	1				TT -					1	<b>b</b>		
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										Ŀ-q		
KTD.SB.1290	RTBM Launching (Main drive, 78m, 45nos precast unit, 1.5m/d)	45	06-Nov-22	20-Dec-22	08-Nov-22	22-Dec-22	2	2			1	17		1		++-	+		·+	
KTD.SB.1300	RTBM Breakthrough into Retrieving Shaft @Sa Po Road	5	23-Dec-22	27-Dec-22	23-Dec-22	27-Dec-22	0	2												
KTD.SB.1310	Replacement grout along trenchless tunnel area	5	28-Dec-22	03-Jan-23	28-Dec-22	03-Jan-23	0	1		- +-	·	<u>+</u> +-		++		++-	+	- <b>C</b>		
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									1			
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								+			F	-
KTD.SB.1330																				۲
	Install steelwork, ABWF, other facilities, lift and other E&M works	180		20-Dec-23		25-Sep-24	226	1												4
	AY SB-01 AT SA PO ROAD	1121	14-Dec-20	25-Sep-24	14-Dec-20	25-Sep-24	0			•		11	1		1	11	1			-
KTD.SB.2000	Trial pit/tench excavation to identify existing underground utilities and services and ground investigation works	52	14-Dec-20	18-Feb-21	14-Dec-20	18-Feb-21	0	1		6	-									
V Milestone	Planned Work						v. 41				0									
▼ Critical Milest	one Summary ED/2018/05	(ai Tak D	evelop	ment -	Stage 5	B Infra	struc	ture W	orks a	at th	ne Fo	orm	er No	orth	Apro	n Ar	ea			3
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		Activity Name	Dur (d)	Early Sta	rt Early Finish	Late Start	Late Finish	Total Float	Calenda				el est -	202	1			2022			_
KTD.SB.201	10	Construct road diversion for Sa Po Road (Stage 1, incl carriageway and footpath)	46	19-Feb-21	NUMBER OF	19-Feb-21	17-Apr-21	0	1	JA	SO	NDJ	FMA	MJ	JASC	ND.	JFMA	MJJA	SON	DJFI	AM
KTD.SB.20*	11	Exposed existing shallow covered watermain and conducting diversion works (NCE032/CE025)	44	15-Apr-21	28-May-21	15-Apr-21	28-May-21	0	2												
KTD.SB.201	12	Construction of remaining works after watermain diversion works for implement road diversion of Sa Po Road (CE032/CE02	25) 11	29-May-21	1 08-Jun-21	29-May-21		0	2							·· <b>·</b> ··	····				
KTD.SB.202	20	Implement TTA for Sa Po Road diversion (Stage 1)	0		08-Jun-21		08-Jun-21	0	1					H,							1
KTD.SB.203	30	Site clearance and excavation for trial pits to identify existing UU along Sa Po Road	7	09-Jun-21	17-Jun-21	09-Jun-21	17-Jun-21	0	1	_				¢,							. <u> </u>
KTD.SB.204	40	Diversion of existing DN1800 stormwater drain pipe and underground utilities/services	130	18-Jun-21		18-Jun-21	20-Nov-21	0	1												-
KTD.SB.205	50	Install sheetpile for Retrieving Shaft (Stage 1, FSP V, 88nos, 24m-H, 1 team)	26	22-Nov-21			21-Dec-21	0	1			·· <b>·</b> ···		-	÷						
KTD.SB.206	60	Construct road diversion for Sa Po Road (Stage 2, incl traffic deck, carriageway and footpath)	45	22-Dec-21			18-Feb-22	0	1							E					
KTD.SB.207	70	Implement TTA for Sa Po Road diversion (Stage 2)	0		18-Feb-22	- A.C.S. 199335	18-Feb-22	0	1						<b>↓↓</b>						ļ
KTD.SB.208	80	Install sheetpile for Retrieving Shaft (Stage 2A, FSP V, 46 nos, 24mH, 1 team)	23	19-Feb-22				54.5	1								71				
KTD.SB.209	90	Diversion to existing underground utilities/services for remaining sheetpil installation	45	18-Mar-22				0	1						ļļ.		7				1
KTD.SB.210		Install remaining sheetpile for Retrieving Shaft (Stage 2B, FSP V, 20 nos, 24m-H, 1 team)	1.0000						1												1
KTD.SB.211		Excavate and install ELS (GL@+6.0mPD to Strut 1@+5.0mPD, 270m3 exca)	9	17-May-22					1									1			
KTD.SB.212		Excavate and install ELS (Stut 1@+5.0mPD to Stut 2@+2.0mPD, 810m3 exca)	7	27-May-22				0	1												1
KTD.SB.213			20	06-Jun-22		06-Jun-22	28-Jun-22	0	1												
KTD.SB.213		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				III					-			T
		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									6			
KTD.SB.215		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											11	1
KTD.SB.216		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.217		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				T					17	5	1	1
KTD.SB.218		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												
KTD.SB.219		Construct tunnel portal for RTBM breakthrough	22	28-Nov-22	22-Dec-22	28-Nov-22	22-Dec-22	0	1				T		t t	1		1		ġ.,	
KTD.SB.220	00	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												-
KTD.SB.221	10	Construct RC structure of base slab (xxx m3 conc)	25	26-Apr-23	25-May-23	26-Apr-23	25-May-23	0	1		-		111		<b> </b>	· · · · ·				+	5
KTD.SB.222	20	Construct RC structure of walls (xxx m3 conc)	52	27-May-23	28-Jul-23	27-May-23	28-Jul-23	0	1												L
KTD.SB.223	30	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				-it					++		÷	÷
KTD.SB.224	10	Backfill Retrieving Shaft up to ground level	39	23-Sep-23	10-Nov-23	23-Sep-23	10-Nov-23	0	1												
KTD.SB.225	50	Install ELS and excavate for remaining staircase and escalator trough structure	40	11-Nov-23	29-Dec-23	11-Nov-23	29-Dec-23	0	1							· · · · · ·		· · · · ·		<b>∔</b>	ļ
KTD.SB.226	50	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												1
KTD.SB.227	70	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			·				. <b>.</b>					ļ
KTD.SB.228	30	Planned Completion of Pedestrian Subway SB-01 (Related to Section 12)	0		25-Sep-24		25-Sep-24	0	2												
ONSTRUCT	TION OF ELEVA	ATED WALKWAY LW-02	861	31-Jul-20	27-Jun-23	08-Feb-21	26-Sep-23	77	-		- 11									Ļ	ļ
PIER 9			300	20-Oct-20	25-0d-21	08-Feb-21	26-Jan-22	77													
KTD.LW.100	00	Pre-dnilling works (2 nos, 1 rig)	45	20-Oct-20	11-Dec-20	08-Feb-21	08-Apr-21	91	1											ļ	ļ
KTD.LW.101	10	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												
KTD.LW.102	20	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	<b></b>								ļ			ļ
KTD.LW.103	30	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.104		Installation of ELS and excavation for pile cap construction (520.5m3 exca, 1 team)		-						L		ļ.,									<u> </u>
KTD.LW.105		Construction of RC structure (pile cap & pier column) (184m3, 1 team)	29	05-May-21	08-Jun-21	06-Aug-21	08-Sep-21	77	1												
PIER 10	1		114	09-Jun-21	25-Ocl-21	09-Sep-21	26-Jan-22	77	1	<b>.</b>											ĺ
KTD.LW.106	50 II	Pre-drilling works (2 nos, 1 rig)	285	07-Nov-20	25-Od-21	09-Feb-21	26-Jan-22	77													
United to the set of			44	07-Nov-20	30-Dec-20	09-Feb-21	08-Apr-21	77	1		1	1									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 dearance	18	13-Apr-21	04-May-21	16-Jul-21	05-Aug-21	77	1	1			1					1			
KTD.LW.1100		nstallation 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
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						1			
	E (PIER 9 TO PIER		433	05-May-21	18-Oct-22	09-Aug-21	26-Sep-23	281					-	H					-		l
KTD.LW.1120	0 1	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	07-Sep-21	79	1								++		······		
KTD.LW.1130	0 1	Erect mid tower in Kai Tak River (Quadshore system)	26	05-Jun-21	07-Jul-21	08-Sep-21	09-Oct-21	79	1				[[	Н					1		
KTD.LW.1140	0 1	nstall decking system to deck over Kai Tak River	26	08-Jul-21	06-Aug-21	11-Oct-21	10-Nov-21	79	1		<b>.</b>		-++-	6	;	+		- <del> </del>			
KTD.LW.1150	0 1	nstallation 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					Ę							
KTD.LW.1160	0 0	Construction of RC bridge structure (1079m3, 4 teams)	80	26-Oct-21	29-Jan-22	27-Jan-22	10-May-22	77	1		<b>.</b>										
KTD.LW.1170	0 F	Prestressing works and remaining RC works	26	31-Jan-22	04-Mar-22	13-Jan-23	14-Feb-23	281	1							L					
KTD.LW.1173	3 1	nstall 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	<b>.</b>	ļ.							1.1	: <b> </b>	<b>.</b>	
KTD.LW.1176		nstall 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	1			
KTD.LW.1179		Construct landscaping, ABWF works and other facilities from Pier 9 to Pier 10	50			1				<b>.</b>	ļ					ļ		7		-	
PIER 11				02-Jul-22	29-Aug-22	31-Jul-23	26-Sep-23	321	1									P.			
KTD.LW.1180	) 1	iaison/coordinate with adjacent project for TTA arrangement	367	31-Jul-20	25-Oct-21	29-Jul-21	22-Sep-22	270													
KTD.LW.1190		nplementation of TTA	90	31-Jul-20	28-Oct-20	29-Jul-21	26-Oct-21	363	2												T
110.044.1190	,  k	npiementauon of TIA	7	18-Nov-20	25-Nov-20	19-Oct-21	26-Oct-21	270	1												1
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	Activity Name	Dur (d)	Early Star	t Early Finish	Late Start	Late Finish	Float	Calendar					2021 JJJA	SON	DIE		JJASC		MA
KTD.LW.1200	Pre-drilling works (4 nos, 1 rig)	48	26-Nov-20	23-Jan-21	27-Oct-21	21-Dec-21	270	1		-									A
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			-6	<u>+</u> +-	·	+-+		··			
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		1				F			-++		·+	-	
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		270	1											
KTD.LW.1260	Installation of ELS and excavation for pile cap construction (319.9m3 exca, 1 team)	26	08-Jul-21	06-Aug-21	07-Jun-22	07-Jul-22	270	1	<b></b>			ļ.ļ.,	<b>.</b>						
KTD.LW.1270	Construction of RC structure (pile cap & pier column) (138m3, 1 team)	65	07-Aug-21	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1.0000000000000000000000000000000000000	01245-4	1											
OOTBRIDGE (PIER 10		301		25-Oct-21	08-Jul-22	22-Sep-22	270	1					4	7					
KTD.LW.1280	Remove ELS and formating roundabout for portal and falsework erection from CH93 to CH138		26-Oct-21	31-Oct-22	23-Sep-22	26-Sep-23	270							1		-	1 1	<b>7</b>	
KTD.LW.1281		31	26-Oct-21	30-Nov-21	23-Sep-22	31-0d-22	270	1											
KTD.LW.1282	Implement TTA for erecting portal across carriageway near CH84 to CH93 (Stage 2)	0	01-Dec-21		08-Nov-22		276	1						17	1				1
	Construct and erect portal across carriageway near CH94 to CH93	18	01-Dec-21	21-Dec-21	08-Nov-22	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					1	+L	9		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									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	<b> </b>						-		+		
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							G.				
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	<b> </b>						1				
KTD.LW.1300	Construction of RC bridge structure (745m3, 1 teams)	78	08-Jan-22	13-Apr-22	06-Dec-22	11-Mar-23	270	1								1			
KTD.LW.1310	Prestressing works and remaining RC works	26	14-Apr-22	19-May-22	13-Mar-23	15-Apr-23	270	1											
KTD.LW.1313	Install steel roof structure and associated steel facilities from Pier 10 to Pier 12	76														1	+		
KTD.LW.1316	Install E&M works, testing and commissioning from Pier 10 to Pier 12		20-May-22		17-Apr-23	18-Jul-23	270	1					ļ			1			
KTD.LW.1319	Construct landscapiung, ABWF works and other facilities from Pier 10 to Pier 12	60	19-Aug-22	31-Oct-22	19-Jul-23	26-Sep-23	270	1										l	
		52	19-Aug-22	21-Oct-22	28-Jul-23	26-Sep-23	278	1									Le Cont		
	SE, SOFT LANDSCAPING & OTHER WORKS	715	25-Jan-21	27-Jun-23	09-Mar-22	26-Sep-23	77				-		1			:	1 1		
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			-					-			
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		1-1-			1		-				-+
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											
KTD.LW.1350	Construction of RC structures (inclu. pile caps, pier column, lift shaft, staircase, etc.)	78	14-Oct-22	16-Jan-23	16-Jan-23	22-Apr-23	77	1	r- <mark>r</mark> ii				++	·	·	÷	Ę	ki	·+
KTD.LW.1360	Lift and other E&M installation, testing and commissioning	90	17-Jan-23	09-May-23	12-Jun-23	26-Sep-23	117	1											<u> </u>
KTD.LW.1370	Construction of roof, planter, landscape softworks, other facilities and ABWF works for whole walkway	130	17-Jan-23	27-Jun-23	24-Apr-23	26-Sep-23	77	1	····					<u> </u>	·	·			
KTD.LW.1380	Planned Completion of Landscaped Elevated Walkway LW-02 (Related to Section 1)	0		27-Jun-23		26-Sep-23	91	2											1
NSTRUCTION OF B		229	15-Aug-20	26-May-21	24 04 20	29-Jul-21	53	L	·				<u> </u>	ļ			ļļ		
	0 CH364 TO BAY11 CH216)	205	02-Sep-20	14-May-21	24-Nov-20	19-Jul-21	53												
KTD.B1.A.1000	Trial pit excavation to expose the existing box culvert near Bay0 CH864	5	02-Sep-20									T.	<b>.</b>						
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)				24-Nov-20	28-Nov-20	68	1											1
KTD.B1.A.1020	Construction of Bay 1 include ELS/excavation/rock fil/RC structure (CH350 to CH338, 12.2m)	53	08-Sep-20	11-Nov-20	30-Nov-20	02-Feb-21	68	1		<b>-</b>									
KTD.B1.A.1030	Construction of Bay 2 include ELS/excavation/rock fil/RC structure (CH338 to CH326, 12.2m)	70	25-Sep-20	18-Dec-20	12-Mar-21	08-Jun-21	135	1	L P	-1.								-	1
KTD.B1.A.1040		55	29-Sep-20	04-Dec-20	16-Mar-21	25-May-21	135	1		-									
	Construction of Bay 3 include ELS/excavation/rock fil/RC structure (CH326 to CH313, 12.2m)	59	15-Oct-20	23-Dec-20	30-Mar-21	12-Jun-21	135	1				T	1						7
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 fil/RC structure (CH301 to CH289, 12.2m)	90	27-Nov-20	18-Mar-21	22-Feb-21	12-Jun-21	68	1				·	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 fil/RC structure (CH277 to CH265, 12.2m)											+	+	}		÷			- E
		40	30-Nov-20	18-Jan-21	16-Mar-21	06-May-21	85	1			1 1 1					1	t - t		•••••••
KTD.B1.A.1090	Construction of Bay 8 include ELS/excavation/rock fil/RC structure (CH265 to CH252, 12.2m)	40				06-May-21 25-May-21					1					8 I I			
		49	07-Dec-20	04-Feb-21	23-Mar-21	25-May-21	85	1			┨		ļ	·					
KTD.B1.A.1090	Construction of Bay 8 include ELS/excavation/rock fil/RC structure (CH265 to CH252, 12.2m) Construction of Bay 9 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)	49 62	07-Dec-20 10-Dec-20	04-Feb-21 26-Feb-21	23-Mar-21 26-Mar-21	25-May-21 12-Jun-21	85 85	1											
KTD.B1.A.1090 KTD.B1.A.1100 KTD.B1.A.1110	Construction of Bay 8 include ELS/excavation/rock fil/RC structure (CH265 to CH252, 12.2m) Construction of Bay 9 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m) Construction of Bay 10 include ELS/excavation/rock fil/RC structure (CH240 to CH228, 12.2m)	49 62 50	07-Dec-20 10-Dec-20 12-Dec-20	04-Feb-21 26-Feb-21 11-Feb-21	23-Mar-21 26-Mar-21 31-Mar-21	25-May-21 12-Jun-21 03-Jun-21	85 85 87	1											
KTD.B1.A.1090 KTD.B1.A.1100 KTD.B1.A.1110 KTD.B1.A.1120	Construction of Bay 8 include ELS/excavation/rock fil/RC structure (CH265 to CH252, 12.2m) Construction of Bay 9 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m) Construction of Bay 10 include ELS/excavation/rock fil/RC structure (CH240 to CH228, 12.2m) Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH228 to CH216, 12.2m)	49 62 50 49	07-Dec-20 10-Dec-20 12-Dec-20 23-Dec-20	04-Feb-21 26-Feb-21 11-Feb-21 24-Feb-21	23-Mar-21 26-Mar-21 31-Mar-21 15-Apr-21	25-May-21 12-Jun-21 03-Jun-21 12-Jun-21	85 85 87 87	1											
KTD.B1.A. 1090 KTD.B1.A. 1100 KTD.B1.A. 1110 KTD.B1.A. 1120 KTD.B1.A. 1130	Construction of Bay 8 include ELS/excavation/rock fil/RC structure (CH265 to CH252, 12.2m)         Construction of Bay 9 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 10 include ELS/excavation/rock fil/RC structure (CH240 to CH228, 12.2m)         Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH240 to CH228, 12.2m)         Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH228 to CH216, 12.2m)         Remove existing bulk wall near Bay 0 CH364 and complete connection at Bay 0	49 62 50	07-Dec-20 10-Dec-20 12-Dec-20	04-Feb-21 26-Feb-21 11-Feb-21	23-Mar-21 26-Mar-21 31-Mar-21	25-May-21 12-Jun-21 03-Jun-21	85 85 87	1											
KTD.B1.A. 1090 KTD.B1.A. 1100 KTD.B1.A. 1110 KTD.B1.A. 1120 KTD.B1.A. 1130 DX CULVERT B1 (BAY1	Construction of Bay 8 include ELS/excavation/rock fil/RC structure (CH265 to CH252, 12.2m)         Construction of Bay 9 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 10 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH228 to CH216, 12.2m)         Remove existing bulk wall near Bay 0 CH364 and complete connection at Bay 0         12 CH216 TO BAY15 CH167)	49 62 50 49	07-Dec-20 10-Dec-20 12-Dec-20 23-Dec-20	04-Feb-21 26-Feb-21 11-Feb-21 24-Feb-21	23-Mar-21 26-Mar-21 31-Mar-21 15-Apr-21	25-May-21 12-Jun-21 03-Jun-21 12-Jun-21	85 85 87 87	1 1 1 1											
KTD.B1.A.1090 KTD.B1.A.1100 KTD.B1.A.1110 KTD.B1.A.1120 KTD.B1.A.1130 DX CULVERT B1 (BAY1 KTD.B1.A.1140	Construction of Bay 8 include ELS/excavation/rock fil/RC structure (CH265 to CH252, 12.2m)         Construction of Bay 9 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 10 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH258 to CH216, 12.2m)         Remove existing bulk wall near Bay 0 CH364 and complete connection at Bay 0         12 CH216 TO BAY15 CH167)         Submission of method statement/temporary works design to MTRC and relevant authorities	49 62 50 49 29	07-Dec-20 10-Dec-20 12-Dec-20 23-Dec-20 10-Apr-21	04-Feb-21 26-Feb-21 11-Feb-21 24-Feb-21 14-May-21 31-Mar-21	23-Mar-21 26-Mar-21 31-Mar-21 15-Apr-21 15-Jun-21	25-May-21 12-Jun-21 03-Jun-21 12-Jun-21 19-Jul-21	85 85 87 87 53	1 1 1 1											
KTD.B1.A.1090 KTD.B1.A.1100 KTD.B1.A.1110 KTD.B1.A.1120 KTD.B1.A.1130 DX CULVERT B1 (BAY1 KTD.B1.A.1140 KTD.B1.A.1150	Construction of Bay 8 include ELS/excavation/rock fil/RC structure (CH265 to CH252, 12.2m)         Construction of Bay 9 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 10 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH258 to CH216, 12.2m)         Remove existing bulk wall near Bay 0 CH364 and complete connection at Bay 0         12 CH216 TO BAY15 CH167)         Submission of method statement/temporary works design to MTRC and relevant authorities         Submission and construction of diversion of existing EVA for Bay 12 to Bay 15 works	49 62 50 49 29 187	07-Dec-20 10-Dec-20 12-Dec-20 23-Dec-20 10-Apr-21 15-Aug-20	04-Feb-21 26-Feb-21 11-Feb-21 24-Feb-21 14-May-21 31-Mar-21 06-Jan-21	23-Mar-21 26-Mar-21 31-Mar-21 15-Apr-21 15-Jun-21 24-Oct-20 24-Oct-20	25-May-21 12-Jun-21 03-Jun-21 12-Jun-21 19-Jul-21 12-Jun-21	85 85 87 87 53 57	1 1 1 1 1											
KTD.B1.A 1090 KTD.B1.A 1100 KTD.B1.A 1110 KTD.B1.A 1120 KTD.B1.A 1130 <b>DX CULVERT B1 (BAY1</b> KTD.B1.A 1140 KTD.B1.A 1150 KTD.B1.A 1160	Construction of Bay 8 include ELS/excavation/rock fil/RC structure (CH265 to CH252, 12.2m)         Construction of Bay 9 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 10 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH228 to CH216, 12.2m)         Remove existing bulk wall near Bay 0 CH364 and complete connection at Bay 0 <b>12 CH216 TO BAY15 CH167)</b> Submission of method statement/temporary works design to MTRC and relevant authorities         Submission and construction of diversion of existing EVA for Bay 12 to Bay 15 works         Mobilization of plant/equipment for Bay 12 to Bay 15 sheetpile installation and TAM grouting works	49 62 50 49 29 187 145	07-Dec-20 10-Dec-20 12-Dec-20 23-Dec-20 10-Apr-21 15-Aug-20 15-Aug-20	04-Feb-21 26-Feb-21 11-Feb-21 24-Feb-21 14-May-21 31-Mar-21 06-Jan-21	23-Mar-21 26-Mar-21 31-Mar-21 15-Apr-21 15-Jun-21 24-Oct-20 24-Oct-20	25-May-21 12-Jun-21 03-Jun-21 12-Jun-21 19-Jul-21 12-Jun-21 17-Mar-21	85 85 87 87 53 53 57 70	1 1 1 1 1											
KTD.B1.A.1090 KTD.B1.A.1100 KTD.B1.A.1110 KTD.B1.A.1120 KTD.B1.A.1130 CULVERT B1 (BAY1 KTD.B1.A.1140 KTD.B1.A.1150 KTD.B1.A.1160	Construction of Bay 8 include ELS/excavation/rock fil/RC structure (CH265 to CH252, 12.2m)         Construction of Bay 9 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 10 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH258 to CH216, 12.2m)         Remove existing bulk wall near Bay 0 CH364 and complete connection at Bay 0         12 CH216 TO BAY15 CH167)         Submission of method statement/temporary works design to MTRC and relevant authorities         Submission and construction of diversion of existing EVA for Bay 12 to Bay 15 works	49 62 50 49 29 187 145 70	07-Dec-20 10-Dec-20 12-Dec-20 23-Dec-20 10-Apr-21 15-Aug-20 15-Aug-20 16-Oct-20	04-Feb-21 26-Feb-21 11-Feb-21 24-Feb-21 14-May-21 31-Mar-21 06-Jan-21 09-Jan-21	23-Mar-21 26-Mar-21 31-Mar-21 15-Apr-21 15-Jun-21 24-Oct-20 24-Oct-20 23-Dec-20	25-May-21 12-Jun-21 12-Jun-21 19-Jul-21 19-Jul-21 12-Jun-21 20-Mar-21	85 85 87 87 53 53 57 70 57	1 1 1 1 1											
KTD.B1.A.1090 KTD.B1.A.1100 KTD.B1.A.1110 KTD.B1.A.1120 KTD.B1.A.1130 CX CULVERT B1 (BAY1 KTD.B1.A.1140 KTD.B1.A.1150 KTD.B1.A.1160 KTD.B1.A.1170	Construction of Bay 8 include ELS/excavation/rock fil/RC structure (CH265 to CH252, 12.2m)         Construction of Bay 9 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 10 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH228 to CH216, 12.2m)         Remove existing bulk wall near Bay 0 CH364 and complete connection at Bay 0 <b>12 CH216 TO BAY15 CH167)</b> Submission of method statement/temporary works design to MTRC and relevant authorities         Submission and construction of diversion of existing EVA for Bay 12 to Bay 15 works         Mobilization of plant/equipment for Bay 12 to Bay 15 sheetpile installation and TAM grouting works	49 62 50 49 29 187 145 70 3	07-Dec-20 10-Dec-20 12-Dec-20 23-Dec-20 10-Apr-21 <b>15-Aug-20</b> 15-Aug-20 16-Oct-20 07-Jan-21	04-Feb-21 26-Feb-21 11-Feb-21 24-Feb-21 14-May-21 31-Mar-21 06-Jan-21 09-Jan-21 09-Jan-21 10-Feb-21	23-Mar-21 26-Mar-21 31-Mar-21 15-Apr-21 15-Jun-21 24-Oct-20 23-Dec-20 18-Mar-21	25-May-21 12-Jun-21 12-Jun-21 19-Jul-21 <b>12-Jun-21</b> <b>12-Jun-21</b> <b>12-Jun-21</b> 20-Mar-21 20-Mar-21	85 85 87 87 53 53 57 70 57 57	1 1 1 1 1											
KTD.B1.A.1090 KTD.B1.A.1100 KTD.B1.A.1110 KTD.B1.A.1120 KTD.B1.A.1130 DX CULVERT B1 (BAY1 KTD.B1.A.1140 KTD.B1.A.1150 KTD.B1.A.1160 KTD.B1.A.1170 KTD.B1.A.1180	Construction of Bay 8 include ELS/excavation/rock fil/RC structure (CH265 to CH252, 12.2m)         Construction of Bay 9 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 10 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH252 to CH240, 12.2m)         Construction of Bay 11 include ELS/excavation/rock fil/RC structure (CH228 to CH216, 12.2m)         Remove existing bulk wall near Bay 0 CH364 and complete connection at Bay 0         12 CH216 TO BAY15 CH167)         Submission of method statement/temporary works design to MTRC and relevant authorities         Submission and construction of diversion of existing EVA for Bay 12 to Bay 15 works         Mobilization of plant/equipment for Bay 12 to Bay 15 sheetpile installation and TAM grouting works         Install sheetpile by silent piler and TAM grouting works	49 62 50 49 29 187 145 70 3 27	07-Dec-20 10-Dec-20 12-Dec-20 23-Dec-20 10-Apr-21 15-Aug-20 15-Aug-20 16-Oct-20 07-Jan-21 11-Jan-21	04-Feb-21 26-Feb-21 11-Feb-21 24-Feb-21 14-May-21 31-Mar-21 06-Jan-21 09-Jan-21 09-Jan-21 10-Feb-21 06-Mar-21	23-Mar-21 26-Mar-21 31-Mar-21 15-Apr-21 15-Jun-21 24-Oct-20 23-Dec-20 18-Mar-21 22-Mar-21 27-Apr-21	25-May-21 12-Jun-21 12-Jun-21 19-Jul-21 19-Jul-21 17-Mar-21 20-Mar-21 20-Mar-21 26-Apr-21 18-May-21	85 85 87 53 57 57 57 57 57 57	1 1 1 1 1											
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Critical Remaining Work

V Summary

 Rev. 41
 Date

 ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area
 30-Nov-23

 WORKS PROGRAMME
 29-Dec-23

 (Page 6 of 13)
 05-Feb-24

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	Activity Name	Dur (d)	Early Star	rt Early Finish	Late Star	t Late Finish	Total Float	Calendar	
KTD.B1.A.1240	Construction of Bay 17 include ELS/exca/rock fil/RC structure (CH155 to CH143, 12.2m)	60	27-Oct-20		30-Dec-20	) 13-Mar-21	53	1	JASONDJEMAMJJASONDJEMAMJJASONDJEMA
KTD.B1.A.1250	Construction of Bay 18 include ELS/exca/rock fill/RC structure (CH143 to CH131, 12.2m)	66	27-Oct-20				53	1	
KTD.B1.A.1260	Construction of Bay 19 include ELS/exca/rock fil/RC structure (CH131 to CH118, 12.2m)	75	02-Nov-20				53	1	<mark>┟╢</mark> ╆╴┇ <mark>╴</mark> ╧╧╧┱┝╶┊╞╸┨╶┼╧╍╌┊╸ <mark>┥</mark> ╌┊╍╌┼╶┿╍╌┤╧╍╍╌┊╸ <mark>┥</mark> ╌┈┊╍
KTD.B1.A.1270	Construction of Bay 20 include ELS/exca/rock fil/RC structure (CH118 to CH106, 12.2m)	102	14-Dec-20	22-Apr-21	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	17-Apr-21	19-Mar-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	13-Mar-21	27-Apr-21		53	1	
KTD.B1.A.1300	Demolish existing box culvert for connection and modification of existing box culvert for connection	48	15-Mar-21	14-May-21			53	1	
KTD.B1.A.1310	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 (ind wall, top slab and bulk wall for abadon existing box culvert)	9	15-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	
ODIFICATION OF EX	ISTING SUBWAY KS10	916	24-Nov-20		24-Nov-20		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	05-Jun-21	14-Aug-21	27-Aug-21	69	1	
KTD.MS.1014	Liaison/coordinate with CLP for diversion of existing 11kV cables	95	01-Mar-21	26-Jun-21	01-Mar-21		0	1	
KTD.MS.1015	Construct diversion of existing 11kV cables by CLP	52	28-Jun-21		28-Jun-21		0	1	
KTD.MS.1020	Piling works for pre-bored H-piles (4 nos, 610dia x 75m, 1 rig)	75	28-Aug-21	-			0	1	
KTD.MS.1021	Post-piling works tests (proof-drilling and load test)	18	27-Nov-21				0	1	
KTD.MS.1027	Demolition of existing subway structures (inclu. staircase and partial ramp)	78	18-Dec-21				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		10000		-		
KTD.MS.1040	Construction of RC structures (inclu. lift shaft, staircase, pump house and etc.) (365m3, 1 team)	104	18-May-22				0	1	
KTD.MS.1045	Backfilling of ELS to ground level	78					0	1	
KTD.MS.1060	Site clearance and demoition of remaining existing fumitures at existing subway under Road D1		20-Sep-22			-	104	1	
KTD.MS.1070	Construct roof and floor finishes along existing subway under Road D1	26	20-Sep-22			-	66	1	
KTD.MS.1080	Install VE panels and its sub-frame along existing subway under Road D1	39	22-Oct-22	06-Dec-22	11-Jan-23	27-Feb-23	66	1	
KTD.MS.1090	Install steel frame of sheller for new staircase and lift shaft	26	07-Dec-22	09-Jan-23	20-May-23		131	1	
CTD.MS.1100	Construct wall/floor finishes for new staircase	39	07-Dec-22	1	28-Feb-23	18-Apr-23	66	1	
KTD.MS.1110		52	27-Jan-23	28-Mar-23	19-Apr-23	20-Jun-23	66	1	
(TD.MS.2000	Lift and other E&M installation, testing and commissioning	156	29-Mar-23	07-Oct-23	21-Jun-23	27-Dec-23	66	1	
0.000	Implement TTA (Phase 1) for closing half Ramp 2, existing staircase@ TKL Rd and LHS of subway part	12	16-Jun-22	29-Jun-22	16-Jun-22	29-Jun-22	0	1	
(TD.MS.2010	Demolition of existing wall tiles at staircases, floor finishes and furnitures, incl hardrai/guardrai/lighings	26	30-Jun-22	30-Jul-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	15-Sep-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 sheel frame of shelter for existing staircase@TKL Rd (Nightwork maybe required)	26	22-Sep-22	24-Oct-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	11-Jan-23	03-Dec-22	22-Feb-23	34	1	
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	15-Feb-23	12-Dec-22	15-Feb-23	0	1	
KTD.MS.2090	Site clearance for open the completed part to public	6	16-Feb-23	22-Feb-23	16-Feb-23	22-Feb-23	0	1	
KTD.MS.2100	Implement TTA (Phase 2) for closing 2nd haf Ramp 2, full Ramp 1 and RHS of subway part	12	23-Feb-23	08-Mar-23	23-Feb-23	08-Mar-23	0	1	
KTD.MS.2110	Demolition of existing wall tiles at staircases, floor finishes and furnitures, incl handrail/guardrail/lightings	26	09-Mar-23	12-Apr-23	09-Mar-23	12-Apr-23	0	1	
(TD.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	
TD.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	╫╆╌┋╍╍╊╪╍╌┨┽╧╍╴┥╌┥╌┥╌┥╴┥┽╴╴┥╴┊╴╴┊╴╴╴┊╴╴
TD.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	
TD.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	╫╴╢╌╌╄╪╍╀╪╌╸┥╃╪╍╌┊╴┠╶┊╸╸╉┊╴╴╎┊╸╸╸┊╸
TD.MS.2160	Implement TTA forlift and install main skeel 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	<b>J</b>
TD.MS.2170	Install remaining steel members, glass balustrade, sheller roof top and ancillary facilities	65	24-Jul-23	09-Oct-23	10-Oct-23	27-Dec-23			······································
TD.MS.2180	Install remaining E&M works inclu lighting and drainage system and steel light trough for RHS subway part	52			1		65	1	
TD.MS.9000	Advanced Completion of modification of existing Subway KS10		25-Aug-23	27-Oct-23	25-Aug-23	27-Oct-23	0	1	
TD.MS.9999	Planned Completion of modification of existing Subway KS10 (Related to Section 3)	61	28-Oct-23	27-Dec-23	28-Oct-23	27-Dec-23	0	2	
	STRICT COOLING SYSTEM WORKS	0	07.11	27-Dec-23	10	27-Dec-23	0	2	
TD.DCS.1000	Lialson/coordinate with utility and service undertakings on connection works of DCS works	742	27-Mar-21		19-Jul-21	26-Sep-23	0		
TD.DCS.1010		180		22-Sep-21	19-Jul-21	14-Jan-22	114	2	
TD.DCS.1020	Allow time frame for CLP new 132kV cable laying works at Road L9 (Refer to Programme provided by CLP on 16 Jun 2021) Install ELS and excavate from SV-S-2A5B to CH280	48	11-Oct-21	06-Dec-21	15-Jan-22	15-Mar-22	79	1	
TD.DCS.1020		52	07-Dec-21	11-Feb-22	16-Mar-22	21-May-22	79	1	
TD.DCS.1040	Construct chamber and install pipe&fitting of SV-S2A5B	90	12-Feb-22	04-Jun-22	23-May-22	06-Sep-22	79	1	
	Install pipeline from SV-S-2A5B to CH280 (52mL, 14 joints)	26	06-Jun-22	06-Jul-22	07-Sep-22	10-Oct-22	79	1	
TD.DCS.1050	Backfilling for trench from SV-S-2A58 to CH280	26	07-Jul-22	05-Aug-22	11-Oct-22	09-Nov-22	79	1	
TD.DCS.1060	Install ELS and excavale from CH310 to SV-S-2A10/CH334	21	06-Aug-22	30-Aug-22	10-Nov-22	03-Dec-22	79	1	
TD.DCS.1070	Construct chamber and install pipe&fitting of SV-S-2A10	90	31-Aug-22	16-Dec-22	05-Dec-22	24-Mar-23	79	1	
TD.DCS.1080	Backfilling for trench from CH310 to SV-S-2A10	21	17-Dec-22	13-Jan-23	25-Mar-23	22-Apr-23	79	1	
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Summarv

tone Critical Remaining Work ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area 30-Nov-23 29-Dec-23 05-Feb-24 WORKS PROGRAMME (Page 7 of 13)

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KTD DCR 4000	Activity Name	Dur (d)	Early Sta	rt Early Finish	Late Start	Late Finish	Float	Calendar		SOND	JFM	2021 A M J J	ASON	DJF	MAM	2022 JJASOI	NDJF	MAM
KTD.DCS.1090	Construct ducting and drawpits from SV-S-2A5B/SV-S-2A10 to CH280	26	14-Jan-23	3 15-Feb-23	24-Apr-23	24-May-23	79	1									40	<u> </u>
KTD.DCS.1100	Install ELS and excavate from SV-S-2A5A/CH190 to CH220	52	20-Sep-22	2 21-Nov-22	20-Sep-22	21-Nov-22	0	1								. 🖕		
KTD.DCS.1110	Construct chamber and install pipe&fiiting of SV-S-2A5A	90	22-Nov-22	2 11-Mar-23	22-Nov-22	11-Mar-23	0	1										<b>•</b> ††
KTD.DCS.1120	Install pipeline from SV-S-2A5A to CH220	26	13-Mar-23	3 15-Apr-23	13-Mar-23	15-Apr-23	0	1									4	-
KTD.DCS.1130	Implementation of TTA for existing roundabout at Olympic Avenue	7	22-Nov-22	2 29-Nov-22	03-Dec-22	10-Dec-22	10	1								······	-0	-
KTD.DCS.1140	Site clearance, cable detection and trial pit excavation at existing public road at Olympic Avenue	21	30-Nov-22	23-Dec-22	12-Dec-22	07-Jan-23	10	1								[		
KTD.DCS.1150	Install ELS and excavate from CH220 to CH280	52	24-Dec-22	28-Feb-23	09-Jan-23	11-Mar-23	10	1								+		<b>1</b> ++-
KTD.DCS.1160	Install pipeline from CH220 to CH280	26	01-Mar-23	30-Mar-23	13-Mar-23	15-Apr-23	10	1			1		i.					
KTD.DCS.1170	Backfilling for trench from SV-S-2A5A to CH280	32	17-Apr-23	24-May-23	17-Apr-23	24-May-23	0	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	<mark>-</mark>		·····	····						
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										
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		<mark>.</mark>					·	·		
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	0	1										
KTD.DCS.1240	Install pipeline from CH0 to CH100	26	11-May-23															
KTD.DCS.1250	Backfill for trench from CH0 to CH100	38	2		11-May-23	10-Jun-23	0	1							1			
KTD.DCS.1260	Construct ducting and drawpits from CH100 to CH0 and existing drawpit	-	12-Jun-23		12-Jun-23	27-Jul-23	0	1			1						1	4
KTD.DCS.1270	T&C of the installed DCS pipes before connection to existing DCS system	26	28-Jul-23		28-Jul-23	26-Aug-23	0	1										
KTD.DCS.1280		26	28-Aug-23		28-Aug-23	26-Sep-23	0	1										
	Planned Completion of DCS works within Parts 1 and 1A (Related to Section 9)	0		26-Sep-23		26-Sep-23	0	2										
	ING SUBWAYS KS9 AND KS32	938	31-Jul-20	26-Sep-23	03-Nov-20	26-Sep-23	0	Cale of	1		1		1			1 1		+++
KTD.RS.1000	Liasion with UAP project and relevant departments for possession approval/consent	366	31-Jul-20	31-Jul-21	03-Nov-20	03-Nov-21	95	2	-			-						
KTD.RS.1001	Prepare/submisstion of TTA for KS9 and KS32	45	01-Aug-21	14-Sep-21	04-Nov-21	18-Dec-21	95	2								1		+++
KTD.RS.1002	Submission for MS/Shop Drawings/Material for shelter for KS9 and KS32	63	16-Aug-21	17-Oct-21	19-Nov-21	20-Jan-22	95	2					<u> </u>					
KTD.RS.1003	Off-site fabrication of shelter for KS9 and KS32	90	18-Oct-21	15-Jan-22	13-Mar-22	10-Jun-22	146	2						-	· • • • • •	+		-
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							T			
RENOVATION OF EXISTING	G SUBWAY KS32	502	18-Jan-22	26-Sep-23	18-Jan-22	26-Sep-23	0			<b> </b> -					- <u>++-</u> +	<u>+</u>		
KTD.KS32.1000	Implement TTA (Phase 1) for closing staircages 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						-	-444-			
KTD.KS32.1020	Demolition of existing wall tiles at both side staircases, floor finishes and fumitures, incl handrail/guardrail/lights	60	24-Feb-22		24-Feb-22	11-May-22	0	1			1			F				
KTD.KS32.1025	Construct wall and floor finishes at both staircases	26	25-Apr-22		25-Apr-22	26-May-22	0	1										
KTD.KS32.1030	Construct roof and floor finishes along LHS of subway part	65	27-May-22								1				T			
KTD.KS32.1040	Install VE panel and its sub-frame along LHS of subway part				06-Jun-22	20-Aug-22	7	1							<b>*</b>			
KTD.KS32.1050	Advance works for installing steel shelters for both sides staircases	39	13-Aug-22		22-Aug-22	08-Oct-22	7	1								<b>₩</b>		
KTD.KS32.1060		12	27-May-22		27-May-22	10-Jun-22	0	1										
KTD.KS32.1070	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							-			
	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							•			
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	23-Dec-22	10-Oct-22	23-Dec-22	0	1				Ť						
KTD.KS32.1090	Implement TTA (Phase 2) for closing RHS of subway part	12	24-Dec-22	10-Jan-23	24-Dec-22	10-Jan-23	0	1									-	
KTD.KS32.1100	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								·	5	-
KTD.KS32.1110	Demolition of existing floor finishes and furnitures, incl lighting	26	28-Jan-23	27-Feb-23	28-Jan-23	27-Feb-23	0	1										
KTD.KS32.1120	Construct roof and floor finishes along RHS of subway part	65	28-Feb-23	19-May-23	28-Feb-23	19-May-23	0	1						+		<u> </u>	- C	
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	++							<u> </u>		<b> </b>   <b> </b> [
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		07-Sep-23	26-Sep-23	0	2			····-					<b>├</b>		
RENOVATION OF EXISTING		400	18-Jan-22	27-May-23	18-Jan-22	06-Sep-23	85	-										
KTD.KS9.1000	Implement TTA (Phase 1) for closing staiccases at both sides and LHS of subway part	3	18-Jan-22	20-Jan-22				1	<b>.</b>							ļļ		
KTD.KS9.1010	Site clearance and erect temporary partition along subway part for working area	26				20-Jan-22	0							2				
KTD.KS9.1020	Demolition of existing wall tiles at both side staticases, floor finishes and furnitures, incl handrai/guardrai/lights		21-Jan-22			23-Feb-22	0	1						-				
KTD.KS9.1025	Construct wall and floor finishes at both staticases	39	24-Feb-22		24-Feb-22	11-Apr-22	0	1						-	■			
KTD.KS9.1030		26	26-Mar-22	29-Apr-22		29-Apr-22	0	1										
	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			T				-			
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								<b>A</b> ,		
KTD.KS9.1050	Advance works for installing steel shellers for both sides staircases	12	30-Apr-22	16-May-22	30-Apr-22	16-May-22	0	1							5			·
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-Jun-22	0	1							L			
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								•		
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	85	1										· · · · ·
KTD.KS9.1090	Site clearance and erect temporary partition along subway part for working area	13	14-Nov-22	28-Nov-22		13-Mar-23	85	1								L.		

	V	Critical Milestone
		Critical Remaining Work

ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area 30-Nov-23 29-Dec-23 WORKS PROGRAMME 05-Feb-24 (Page 8 of 13)

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KTD.KS9.1100	Demolition of existing floor finishes and furnitures, incl lighting	01	00.11	Finish			Float		JASO	NDJ	FMAM	JJA	SOND	JFMAN	JJASO	NDJF	M
KTD.KS9.1110	Construct roof and floor finishes along RHS of subway part	21	29-Nov-22			1.100.773 <b>0</b> 100.7000	85	1									
KTD.KS9.1120		45	23-Dec-22		12-Apr-23	05-Jun-23	85	1									
	Install VE panels along RHS of subway part	26	20-Feb-23	21-Mar-23	06-Jun-23	07-Jul-23	85	1								4	Ť
KTD.KS9.1130	Install remaining E&M works inclu lighting and drainage system and steel light trough at Subway KS9	52	22-Mar-23	27-May-23	08-Jul-23	06-Sep-23	85	1			1					լլլ	-
All an and the second se	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										-
TD.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									
TD.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		-							
TD.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									
TD.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					·····				
TD.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									
TD.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	ii-		<u>[</u>		·····		·		
TD.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			C.						
TD.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			<b>C</b>						-
TD.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		0	1			1						
TD.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	19-Aug-21	05-Oct-21	0	1	ļ.,			TE					
TD.RM.1025	Cut existing rising main, lay and install pipeworks and cast thrust blocks for connection of Pipeline 1	18	06-Oct-21	27-Oct-21	06-Oct-21			1			1						
TD.RM.1027	Cut existing rising main, lay and install pipeworks and cast thrust blocks for connection of Pipeline 2					27-Oct-21	0	1					7				
TD.RM.1030	Backfilling works and abandon the existing sewage rising main	18	28-Oct-21	17-Nov-21	28-Oct-21	17-Nov-21	0	1					1				
TD.RM.1040		26	18-Nov-21	17-Dec-21	18-Nov-21	17-Dec-21	0	1					-				
	Planned Completion of diversion and demolition of existing structures at Site 2C2 and 2C3 (Related to Section 5)	0		17-Dec-21		17-Dec-21	0	2					-				Ť
NSTRUCTION OF R		1313	31-Jul-20	31-Dec-24	01-Sep-20	30-Jun-26	441				-					++-	+
ONSTRUCTION OF SL		707	31-Jul-20	15-Dec-22	06-Aug-21	30-Jun-26	1047				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	H		۹		+				
KTD.SR 1020	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	06-Sep-21	15-Feb-22	228	1									
KTD.SR.1030-CSD2	Pre-drilling works for pile caps north side of PC3 to PC7 (10 nos, 2 rigs)	1	12-May-21	12-May-21	15-Feb-22	16-Feb-22	228	1	••• <b>•</b> ••••				+		··		
KTD.SR.1031-CSD2	Submission/approval for CSD Proposal and Detail Design Report by the Employer/relevant authorities	132	26-Nov-20	12-May-21	04-Sep-21	15-Feb-22	228	1		1		1					
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	·			····					-
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				1					
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	······				J				Ļ
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	Demolition of existing bearing wall	26	09-Nov-21	08-Dec-21	Concilla Recordina				<b>.</b>								
KTD.SR.1080	Installation of ELS and excavation and construction for pile cap PC2 (60m3 exca, 30m3 conc, 1 team)	26		1000000000000	06-Jun-23	07-Jul-23	464	1									
KTD.SR. 1090	Construction of remaining foundation and pier structures (incl. columns, portal beams and etc.) (169m3, 1 team)		09-Dec-21	11-Jan-22	08-Jul-23	07-Aug-23	464	1									
KTD.SR 1100	Construction of cantilever slab extended from ext. bridge K73 (150m3, 1 team)	52	12-Jan-22	16-Mar-22	08-Aug-23	09-Oct-23	464	1					4				
KTD.SR 1110	Backfilling for pile caps (PC1 and PC2)	39	17-Mar-22	06-May-22	10-Oct-23	24-Nov-23	464	1						4			
KTD.SR.2000-CSD2		26	07-May-22	08-Jun-22	25-Nov-23	27-Dec-23	464	1						<b>L</b> =			T
	Pilling works of pre-bored H-piles (31 nos, 610dia x 80m, 1 r/g)	125	21-Aug-21	20-Jan-22	29-Jun-22	25-Nov-22	251	1									
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					•				Ť
KTD.SR 2010	Installation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)	52	21-Jan-22	25-Mar-22	26-Nov-22	31-Jan-23	251	1					4				
KTD.SR.2020	Construction of Retaining Wall S14 (Bay1-4, 460m3, 2 teams)	39	26-Mar-22	17-May-22	01-Feb-23	17-Mar-23	251	1				++					Ť
KTD.SR 2030	Construction of bridge S14 decking structures (320m3, 1 teams)	32	18-May-22	24-Jun-22	18-Mar-23	28-Apr-23	251	1									
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 learns)	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									4
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				-					
KTD.SR.3020	Backfilling for Retaining Wall S14 (Bay8-11, 1100m3, 2 teams)	90	18-May-22	01-Sep-22	20-Feb-23	10-Jun-23	228	1							<u></u>		
KTD.SR.3030	Excavate and construct stormwater drain from SMH1062 to SMH1066 and associated gullies	52	10-Aug-22	12-Oct-22	18-May-23	20-Jul-23	228	1									
KTD.SR.3050	Backfill and compact sub-base from CH336 to CH124	18	30-Sep-22	22-Oct-22	11-Jul-23	31-Jul-23	228	1					.				
KTD.SR.3060	Construction of road pavement, road marking, street and other facilities	46	24-Oct-22												-		-
KTD.SR 9999	Planned Completion of Slip Road S14 (Related to Section 3)		24-00-22		02-Nov-23	27-Dec-23	305	1									
		0		15-Dec-22		27-Dec-23	377	2							4	4	ſſ
	ADS D1, L9, L16, PEDESTRIAN STREETS AND OPEN SPACES	1286	01-Sep-20	31-Dec-24	01-Sep-20	30-Jun-26	441					1				+++	
	OADS L9 & L16 AND O LYMPIC AVENUE WITHIN PART 1	643	30-Jul-21	26-Sep-23	30-Jul-21	26-Sep-23	0					-					
	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				5			<u> </u>		
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				4					
KTD.L16.1014	Excavate and construct stormwater drainage from SMH909 to SMH911 and associated drain pits	29	16-Aug-21	17-Sep-21	16-Aug-21	17-Sep-21	0	1				6			<u> </u>		
KTD.L16.1017	Backfill and compact the excavated trench from SMH909 to SMH911	15	18-Sep-21	07-Oct-21	18-Sep-21	07-Oct-21	0	1				5					
KTD.L16.1020	Excavate and demolish the existing box culvert and backfill at Road L16	30	08-Oct-21		08-Oct-21	12-Nov-21	0	1				····· [			·		
KTD.L16.1030	Excavate and construct stormwater drainage fm SMH911 to SMH916 and associated drain pits	52	13-Nov-21		13-Nov-21	15-Jan-22	0	1					CL.				
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Summary

V Critical Milestone Critical Remaining Work

Rev. 41	Date	Revision	
ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area	30-Nov-23	Works Programme	HL
WORKS PROGRAMME	29-Dec-23	Works Programme	HL
(Page 9 of 13)	05-Feb-24	Works Programme	HL

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KIDI 40 4040		Dur (d)	Early Sta	rt Early Finish		t Late Finish	Float	Calendar		NDJFM	2021	OND	JEMA	2022 M J J A S C	
KTD.L16.1040	Backfill and compact the excavated trench from SMH911 to SMH916	18	17-Jan-22	2 09-Feb-2	2 17-Jan-22	09-Feb-22	0	1							1 M M M M
KTD.L16.1050	Excavate and construct sewerage from SWTP1_1 to FMH10_40 (182mL pipeline and manhdes)	78	10-Feb-22	2 18-May-2	2 10-Feb-22	2 18-May-22	0	1							
KTD.L16.1060	Excavate and install fresh watermain from CHC0 to CHC180 and associated tees with chambers	60	19-May-2	2 29-Jul-22	19-May-22	2 29-Jul-22	0	1		• <b>•</b> ••		·····			
KTD.L16.1070	Excavate and install salt watermain from CHC0 to CHC180 and associated tees with chambers	39	30-Jul-22	14-Sep-22	2 30-Jul-22	14-Sep-22	0	1							
KTD.L16.1080	Excavate and install irregation pipeline at Road L16 within Part 1	26	15-Sep-22	2 17-Oct-22	15-Sep-22		0	1	·			<b> </b>  -			
KTD.L16.1090	Install and construct gully and associated drain pipes at Road L16 within Part 1	26	18-Oct-22				-								
KTD.L16.1100	Install and construct road lighting and drawpits civil provisions at Road L16 within Part 1					-	0	1							
KTD.L16.1110		26	17-Nov-22				0	1							
	Allowable time frame for UU undertakings to install their ducts/pits/chambers at Road L16 within Part 1	26	17-Nov-22	2 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	2 03-Jan-23	17-Dec-22	03-Jan-23	0	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							
KTD.L16.1140	Backfill and compact sub-base material for road work at Road L16 within Part 1	52	28-Jan-23	29-Mar-23	28-Jan-23	29-Mar-23	0	1	••••••••••••••••••••••••••••••••••••••	+				·   · · · · · · · · · · · · · · · · · ·	
KTD.L16.1150	Construct carriagway pavement (Bitumen and concrete pavement) at Road L16 within Part 1	40	30-Mar-23	20-May-23	30-Mar-23	20-May-23	0	1							
KTD.L16.1160	Lay paving blocks for pedestrian access at Road L16 within Part 1	78	22-May-23	3 23-Aug-23	27-Jun-23	26-Sep-23	29	1		•					
KTD.L16.1170	TTA diversion for MTR SWT Station EVA (Stage 3, divert to newly constructed L16 as EVA)	7	22-May-23				0	1							
KTD.L16.1180	Excavate and construct remaining stormwater drainage and watermain connection	18			-	-									
KTD.L16.1190	Construct remaining road kerb/planter at Road L16 within Part 1	1	31-May-23				0	1							
KTD.L16.1200		12	21-Jun-23		21-Jun-23	06-Jul-23	0	1							
KTD.L16.1210	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							
	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	0	1							
KTD.L.16.1220	Install road furnitures, road markings and landscaping works at Road L16 within Part 1	52	28-Jul-23	26-Sep-23	28-Jul-23	26-Sep-23	0	1						++	
KTD.L16.1230	Planned completion of underground utilities and roadworks at Road L16 within Part 1 (related to Section 1)	0		26-Sep-23		26-Sep-23	0	2							
CONSTRUCTION OF U	UNDERGROUND UTILITIES AND ROADWORKS AT ROAD L9 WITHIN PART 1 (NON-XP AREA)	444	29-Mar-22	26-Sep-23	29-Mar-22	26-Sep-23	0		· · · · · · · · · · · · · · · · · · ·	+				· · · · · · · · · · · · · · · · · · ·	
KTD.L9.1000	TTA diversion for MTRC SWT Station EVA (Stage 2, divert to Sung Wong Toi Road and Crowd Dispersal Route)	0	1	29-Mar-22		29-Mar-22	0	1					-		
KTD.L9.1010	Excavate and demolish the existing box culvert and backfill at Road L9	35	30-Mar-22				0	1	·	<b> </b> -			P	.	
KTD.L9.1020	Excavate and construct stormwater drainage from SMH1026 to SMH454 and associated drain pits	48	17-May-22		17-May-22	A	-								
KTD.L9.1030	Excavate and install fresh watermain from CHB126 to CHB50 at Road L9 within Part 1	30			-		0	1		L			-	F	
KTD.L9.1040	Excavate and install salt watermain from CHB125 to CHB50 at Road L9 within Part 1		14-Jul-22	17-Aug-22		17-Aug-22	0	1							
KTD.L9.1050		30	18-Aug-22		18-Aug-22	22-Sep-22	0	1							
	Excavate and install irregation pipeline at Road L9 within Part 1	26	23-Sep-22	25-Oct-22	23-Sep-22	25-Oct-22	0	1						-	
KTD.L9.1060	Install and construct guily and associated drain pipes at Road L9 within Part 1	18	26-Oct-22	15-Nov-22	26-Oct-22	15-Nov-22	0	1							
KTD.L9.1070	Install and construct road lighting and drawpits civil provisions at Road L9 within Part 1	18	16-Nov-22	06-Dec-22	16-Nov-22	06-Dec-22	0	1						<b> </b> -}  <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			••••••••••				- E
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							P
KTD.L9.1120	Construct carriageway pavement (Bitumen pavement) at Road L9 within Part 1	52	24-Apr-23												
KTD.L.9.1130	Lay paving blocks for pedestrian access at Road L9 within Part 1			26-Jun-23	24-Apr-23	26-Jun-23	0	1							
KTD.L9.1140	Planned completion of underground utilities and roadworks at Road L9 within Part 1 (non-XP area, related to Section 1)	78	27-Jun-23		27-Jun-23	26-Sep-23	0	1							
		0		26-Sep-23		26-Sep-23	0	2							
	INDERGROUND UTILITIES AND ROADWORKS AT JUNCTION OF L9 & OLYMPIC AVENUE W/IN PART 1	265	04-Feb-22	22-Dec-22	24-Feb-22	22-Dec-22	0	1					-	·	-
KTD.L9.2000	Implement TTA for construct preliminary works for Olympic Avenue roundabout closure	3	04-Feb-22	07-Feb-22	24-Feb-22	26-Feb-22	17	1					1		
KTD.L9.2010	Preliminary works for Olympic Avenue roundabout closure (incl demolish central divider, construct pavement and marking)	26	08-Feb-22	09-Mar-22	28-Feb-22	29-Mar-22	17	1				G			
KTD.L9.2020	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							
KTD.L9.2030	Setup and implement TTA for Clympic Avenue roundabout closure	3	30-Mar-22	01-Apr-22	30-Mar-22	01-Apr-22	0	1	•				- <b>H</b>	· · · · · · · · · · · · · · · · · · ·	
KTD.L9.2040	UU detection and trial pit excavation	3	02-Apr-22	06-Apr-22	02-Apr-22	06-Apr-22	0	1					E		
KTD.L9.2050	Excavate and construct stormwater drainage from SMH1026 to SMH1042	39	07-Apr-22							·			P	<u> </u>	
KTD.L9.2060	Excavate and construct sewerage from 2A8_1 to FMH23_2			27-May-22	07-Apr-22	27-May-22	0	1					7		
KTD.L9.2070		26	28-May-22		28-May-22	28-Jun-22	0	1					6		
	Excavate and construct FWM/SWM from CHB50 to CHB0 and CHA450 to CHA360 and associated tees with chambers	26	29-Jun-22	29-Jul-22	29-Jun-22	29-Jul-22	0	1						-	
KTD.L9.2080	Excavate and install irregation 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						-	
KTD.L9.2090	Install and construct gully and associated drain pipes at Junction of Road L9 & Olypmic Avenue within Part 1	18	13-Aug-22	02-Sep-22	13-Aug-22	02-Sep-22	0	1	1						
KTD.L9.2100	Install and construct road lighting and drawpits civil provisions at Junction of Road L9 & Olympic Avenue within Part 1	18	13-Aug-22	02-Sep-22	13-Aug-22	02-Sep-22	0	1							
KTD.L9.2110	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	06-Oct-22	03-Sep-22	06-Oct-22	0	1	+	···	·				
KTD.L9.2120	Backfill and compact to formation level for roadworks at Junction of Road L9 & Olympic Avenue within Part 1	18	07-Oct-22	27-Oct-22	07-Oct-22	27-Oct-22	0	1						C-	
KTD.L9.2130	Construct road kerb, central divider and planter at Junction of Road L9 & Olympic Avenue within Part 1	18	28-Oct-22	17-Nov-22	28-Oct-22	17-Nov-22	0	1							
KTD.L9.2140	Backfill and compact sub-base material for road work at Junction of Road L9 & Olympic Avenue within Part 1	12	18-Nov-22	01-Dec-22			-								
KTD.L9.2150	Construct carriageway pavement (Bitumen pavement) at Junction of Road L9 & Olympic Avenue within Part 1				18-Nov-22	01-Dec-22	0								9
		18	02-Dec-22	22-Dec-22	02-Dec-22	22-Dec-22	0	1						4	
	NDERGROUND 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								++++
KTD.OLY.2000	Implement TTA for stormwater 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
KTD.OLY.2010	Excavate and construct stormwater drainage from SMH1035 to SMH1031 and SMH1042 to SMH100B and associated drain pils	18	28-Dec-22	18-Jan-23	28-Dec-22	18-Jan-23	0	1							
KTD.OLY.2020	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		·  ····	· · · · · · · · · · · · · · · · · · ·		·		E
KTD.OLY.2030	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							C
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lestone	Planned Work														
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Critical Remaining Work
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Activity ID		Activity Name	Dur (d)	Early Star	t Early	Late Start	Late Finish	Total	Calendar	020		2021			2022		2023
	KTD.OLY.2040	Construct carriageway pavement (Bitumen pavement) at Oly Ave E/B and W/B (Phase 1)	18	11-Feb-23	Finish	44 E-1 00	02.14 02	Float		JASO	NDJFN	AMJJA	SOND	JFMAM		ONDJFMAM	JJASON
	KTD.OLY.2050	Remove TTA and implement TTA for slormwater drainage works at Oly Ave E/B and W/B (Phase 2) and UU detection	3				03-Mar-23	0	1							-	
	KTD.OLY.2060	Excavate and cosntruct stormwater drainage from SMH1031 to SMH1030A and SMH100B to SMH100 and associated drain	1	04-Mar-23			07-Mar-23	0	1			ļļ.				7	
	KTD.OLY.2070	pits Install and construct guily and associated drain pipes at Oly Ave E/B and W/B (Phase 2)		08-Mar-23			28-Mar-23	0	1								
	KTD.OLY.2080	Construct road kerb and central divider at Oly Ave E/B and W/B (Phase 2)	8	29-Mar-23		29-Mar-23	11-Apr-23	0	1			ļļ.				4	
	KTD.OLY.2090	Construct carriageway pavement (Bitumen pavement) at Oly Ave E/B and W/B (Phase 2)	10	12-Apr-23		12-Apr-23	22-Apr-23	0	1								
	KTD.OLY.2100		18	24-Apr-23		201020000	15-May-23	0	1								
	KTD.OLY.2110	Remove TTA and implement TTA for FWWSWM at Oly Ave W/B (Phase 3) and UU detection	3	16-May-23		16-May-23	18-May-23	0	1							2	
		Excavate and construct FWM/SWM from CHA360 to CHA300 and associated 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								9
	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								5
	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						· • • • • • • • • • • • • • • • • • • •		-
	KTD.OLY.2170	Excavate and construct FWM/SWM from CHA100 to CHA0 and associated tees with chambers	18	03-Aug-23	23-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	01-Sep-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	26-Sep-23	23-Sep-23	26-Sep-23	0	1	•••	-			····•	<mark>-</mark>		- <u>6</u> -
	KTD.OLY.2210	Planned completion of underground utilities and roadworks at Olympic Avenue within Part 1 (related to Section 1)	0	1	26-Sep-23		26-Sep-23	0	2								5
	CONSTRUCTION OF P	EDESTRIAN ACCESS FROM L9 TO OLYMPIC AVENUE WITHIN PART 1 (XPAREA)	291	07-Oct-22	26-Sep-23	07-Oct-22	26-Sep-23	0		••••••••	+				·····		
	KTD.OLY.2220	Demolish and remove site hoarding from Road L9 to Olympic Avenue within Part 1	12	07-Oct-22	20-Oct-22	07-Oct-22	20-Oct-22	0	1								
	KTD.OLY.2230	Site clearance and relocate construction material stockpile at Storage Yard	12	21-Oct-22	03-Nov-22	21-Oct-22	03-Nov-22	0	1						- C	<b></b>	
	KTD.OLY.2240	Excavate and construct u-channels and connect to stormwater drainage system	26	04-Nov-22	03-Dec-22		03-Dec-22	0	1								
	KTD.OLY.2250	Install and construct road lighting and drawpits civil provisions from Road L9 to Olympic Avenue within Part 1	18	05-Dec-22	24-Dec-22	05-Dec-22	24-Dec-22	0	1							2	
	KTD.OLY.2260	Allowable time frame for UU undertakings to install ducts/pits/chambers from Road L9 to OlympicAvenue within Part 1	26	28-Dec-22		28-Dec-22	30-Jan-23	0	1								
	KTD.OLY.2270	Backfill and compact to formation level for road works	26	31-Jan-23	01-Mar-23	31-Jan-23	01-Mar-23	0	1								
	KTD.OLY.2280	Backfill and compact sub-base material for road works	26	02-Mar-23	31-Mar-23	02-Mar-23	31-Mar-23	0	1							E	
	KTD.OLY.2290	Lay paving blocks for pedestrian access from Road L9 to Olympic Avenue within Part 1	39	01-Apr-23	22-May-23	24	22-May-23	0	1		<b>.</b>						
	KTD.OLY.2300	Implement TTA for closing existing pedestrian access from Road L9 to Cly Ave w/in Part 1 and divert to new access	1	23-May-23					1								
	KTD.OLY.2310	Remove existing paving blocks, excavate and install irregation pipeline from Road L9 to Olympic Avenue within Part 1	18	000000000000000000000000000000000000000		23-May-23	23-May-23	0								2	
	KTD.OLY.2320	Construct road kerb and planter fm Road L9 to Olympic Avenue within Part 1		24-May-23	14-Jun-23	24-May-23	14-Jun-23	0	1								-
	KTD.OLY.2330	Laying paving blocks for pedestrian access fm Road L9 to Olympic Avenue within Part 1	26	15-Jun-23	17-Jul-23	15-Jun-23	17-Jul-23	0	1								
	KTD.OLY.2340		26	18-Jul-23	16-Aug-23	18-Jul-23	16-Aug-23	0	1								-
	KTD.OLY.2350	Install road fumitures, road markings and landscaping works from Road L9 to Olympic Avenue within Part 1	35	17-Aug-23	26-Sep-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		26-Sep-23		26-Sep-23	0	2								3
	CONSTRUCTION OF ROA		242	06-Mar-23	27-Dec-23	17-Apr-23	27-Dec-23	0									
	KTD.D1.1000	ORTION 1 (ROAD D1 E/B & W/B CH170 TO CH230)	156	17-Apr-23	21-Oct-23	17-Apr-23	21-Oct-23	0	1								
		Site dearance, haul road diversion, formation and fence off working area	4	17-Apr-23	20-Apr-23	17-Apr-23	20-Apr-23	0	1								
	KTD.D1.1010	Excavate and construct stormwater drain from SMH1023 to SMH1021 and associated gullies	35	21-Apr-23	02-Jun-23	21-Apr-23	02-Jun-23	0	1							49	
	KTD.D1.1020	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								
	KTD.D1.1030	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								-
	KTD.D1.1040	Excavate and construct FWM/SWM from CH450 to CH500	20	09-Aug-23	31-Aug-23	09-Aug-23	31-Aug-23	0	1								
	KTD.D1.1050	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						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								
		DRTION 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 SMH101B to SMH1201C	48	10-Mar-23	10-May-23	23-May-23	20-Jul-23	58	1						+		+
	KTD.D1.2020	Backfill and construct road kerb/central divider from Road D1 E/B CH230 to CH396	35	11-May-23	21-Jun-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	21-Jul-23	25-Sep-23	25-Oct-23	79	1	+				····	+	┉┾┼┈╫╴҇Ӷ	
	CONSTRUCTION OF PO	DRTION 3 (ROAD D1 W/B CH230 TO CH300)	142	06-Mar-23	26-Aug-23	04-May-23	21-Oct-23	46	1								
	KTD.D1.3000	Site clearance, haul road diversion, formation and fence off working area	4	06-Mar-23	09-Mar-23	04-May-23	08-May-23	46	1	++					+		+++
	KTD.D1.3010	Excavate and construct stormwater drain from SMH1120 to SMH1123 and associated gulies	26	10-Mar-23	13-Apr-23	09-May-23	08-Jun-23	46	1								
	KTD.D1.3020	Excavate and construct stormwater drain from SMH1001 to SMH1107 and assolcated gullies	37	01-Apr-23	19-May-23	01-Jun-23	15-Jul-23	46	1	+					<u></u> +		
	KTD.D1.3030	Excavate and construct sewerage from FMH25_2a to FMH25_4	12	20-May-23	03-Jun-23	17-Jul-23	29-Jul-23	46	1								
	KTD.D1.3040	Excavate and construct FMW/SWM from CH500 to CH570	26	05-Jun-23	06-Jul-23	31-Jul-23	29-Aug-23	46	1						ļļ		
	KTD.D1.3050	Backfill and construct road kerb/central divider from Road D1 W/B CH230 to CH300	26		05-Aug-23		28-Sep-23	46	1								
	KTD.D1.3060	Backfill and compact sub-base from Road D1 W/B CH230 to CH300	18														
	CONSTRUCTION OF PO	DRTION 4 (ROAD D1 W/B CH300 TO CH396)	125	11-May-23	26-Aug-23		21-0d-23	46	-								-
	KTD.D1.4000	Site dearance, haul road diversion, formation and fence off working area	4		09-Oct-23	17-Jul-23	12-Dec-23	54							ļļ	-	
	KTD.D1.4010	Excavate and construct stomwater drain from SMH1108 to SMH1108A		11-May-23	15-May-23	17-Jul-23	20-Jul-23	54	1								
			12	16-May-23	30-May-23	21-Jul-23	03-Aug-23	54	1								
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	Milestone	Planned Work					Rev.										Date
	Critical Milestone	Summary ED/2018/05 Kai	Tak De	evelopn	nent - S	tage 5	3 Infras	tructi	ure Wo	rks at	the Fo	rmer No	orth An	oron Are	ea	30	-Nov-23
	Critical Remaining V	Vork					RKS PR										-Dec-23
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L'AND THE REAL PROPERTY AND THE REAL	Activity Name	Dur (d)	Early Star	t Early Finish	Late Start	Late Finish	Float	Calendar		OND	JFM	A M J	JASC	NDJ	FMAM	JJASON		A
KTD.D1.4020	Excavate and construct stormwater drain from SMH1107 to 1271 and associated gullies	26	31-May-23	30-Jun-23	04-Aug-23	02-Sep-23	54	1					-1-1-1-				TPI VI III	14
KTD.D1.4030	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.D1.4040	Backfill and construct road kerb/central divider from Road D1 W/B CH300 to CH396	26	07-Aug-23	05-Sep-23	11-Oct-23	10-Nov-23	54	1			1		-			*****		r†-
KTD.D1.4050	Backfill and construct sub-base from Road D1 W/B CH300 to CH396	35	28-Aug-23	09-Oct-23	01-Nov-23	12-Dec-23	54	1										
	PORTION 5 (PEDESTRIAN ACCESS AND CARRIAGEWAY PAVEMENTAT ROAD D1)	181	22-May-23	27-Dec-23	01-Aug-23	27-Dec-23	0	11111			1				1			t
KTD.D1.5000	Demolition and removal of existing site hoarding or boundary fence at Road D1 E/B Pedestrian Access	26	22-May-23	21-Jun-23	01-Aug-23	30-Aug-23	58	1										L
KTD.D1.5010	Construct u-channel/lighting duct and drawpits at Road D1 E/B Pedestrian Access	26	23-Jun-23	24-Jul-23	31-Aug-23	29-Sep-23	58	1			1		h			······	-++	
KTD.D1.5020	Construct planter kerb at Road D1 E/B Pedestrian Access	18	25-Jul-23	14-Aug-23	03-Oct-23	24-Oct-23	58	1										
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	27-Dec-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			<u>├</u>			····		-+		
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 CH300	18	06-Sep-23	26-Sep-23	12-Oct-23	02-Nov-23	29	1		····• <mark>+</mark> ·	·		·····-					
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	21-Nov-23	05-Dec-23	27-Dec-23	29	1			<u> </u>		·····.		ļ			
KTD.D1.7000	Construct u-channe/lighting duct and drawpits at Road D1 W/B Pedestrian Access CH300 to CH396	18	03-Jul-23	22-Jul-23	08-Sep-23	28-Sep-23	58	1					1					
KTD.D1.7010	Construct planter kerb at Road D1 W/B Pedestrian Access CH300 to CH396	18	24-Jul-23	12-Aug-23	29-Sep-23	21-Oct-23	58	1										ļ
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														
KTD.D1.7030	Lay paving blocks and install street furnitures/facilities for Road D1 W/B Pedestrian Access CH300 to CH396	26			24-Oct-23	13-Nov-23	58	1			ļļ		·····.					
KTD.D1.7040	Construct landscaping softworks for Road D1 W/B Pedestrian Access CH300 to CH396	18	04-Sep-23	05-Oct-23	14-Nov-23	13-Dec-23	58	1										
KTD.D1.8000	Construct randscaping softworks for Pade D1 W/B CH170 to CH230 (12d for each layer test result, exclu wearing layer)	47	25-Sep-23	17-Oct-23	05-Dec-23	27-Dec-23	58	1			ļļ							
KTD.D1.8010	Construct carriageway pavement for Road D1 VWB CH1/0 to CH230 (12d for each layer test result, exclu wearing layer) Construct carriageway pavement and road marking for Road D1 E/B (12d for each layer test result, 3 layers)	40	24-Oct-23	08-Dec-23	07-Nov-23	22-Dec-23	12	1										ſ
KTD.D1.8020		52	22-Sep-23	24-Nov-23	26-Oct-23	27-Dec-23	26	1										
KTD.D1.9000	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	22-Dec-23	0	1										ſ
	Advanced Completion of Road D1 within Part 1A	5	23-Dec-23	27-Dec-23	23-Dec-23	27-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									1	
	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	L-1								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								·	-++	
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										
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			jl	•			1	·	- <del>-</del> +-	
KTD.CDR.1050	Excavale and construct u-channel fm CH180 to CH292	43	26-May-21	16-Jul-21	26-May-21	16-Jul-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					F.					
KTD.CDR.1080	Excavate and construct storm drain pipework/manhole SMH119	40	17-Jul-21	01-Sep-21	17-Jul-21	01-Sep-21	0	1			·····-					÷		
KTD.CDR.1090	Backfill pipeline area to SMH119 and construct u-channel fm CH292 to CH455	70	02-Sep-21	25-Nov-21	02-Sep-21	25-Nov-21	0	1					5					
KTD.CDR.1100	Excavate and construct lighting drawpits and lay cable ducts fm CH292 to CH455	52	05-Oct-21	04-Dec-21	05-Oct-21	04-Dec-21	0	1						I				
KTD.CDR 1110	Excavate and construct watermain pipework and install fire hydrants from CH316 to CH455	52	05-Oct-21	04-Dec-21	05-Oct-21	04-Dec-21	0	1						T				
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	-					L				
KTD.CDR.1130	Install chain-link fence from CH0 to CH455 and install lighting poles and cabling by HyD sub-contractor	40	11-Feb-22	29-Mar-22	11-Feb-22	29-Mar-22	0	1										
KTD.CDR 1140	Planned Completion of Roadworks and Utilities/Services within Parts 2 and 10 (Related to Section 6)	0		29-Mar-22	III CO LL	29-Mar-22	0	2	ļ. <b>.</b> ļ.						E	ļļ		
CONSTRUCTION OF PE	DESTRIAN STREETS NO.1, 3 & 4 WITHIN PART 3	632	02-Jan-21	20-Feb-23	02-Jan-21	24-Feb-24	301	2										
KTD.RW.2060	Liaison/coordinate with adjacent projects (incl Station Square, Housing Sites and etc.) for interfacing issues				1				ļ. <b>.</b> ļ.							ļ		
	ROADWORK/LANDSCAPE WORKS AT PEDESTRIAN STREETS NO.1, 3 & 4	60	02-Jan-21	02-Mar-21	02-Jan-21	02-Mar-21	0	2		-	7							
KTD.RW.2070	Construct roadwork and landscape softworks within Part 3 (incl pedestrian streets)	346	18-Dec-21	20-Feb-23	24-Dec-22	24-Feb-24	301	1						V		II		
		346	18-Dec-21	20-Feb-23	24-Dec-22	24-Feb-24	301	1						► <u></u>	1	1 1		
	JNDERGROUND UTILITIES AT PEDESTRIAN STREETNO.1	169		25-Sep-21	03-Mar-21	17-Dec-21	69	1										
KTD.PS1.1000	Excavate and construct storm drain pipework (120mL)/catchpit/manholes fm SMH905A to SMH905B	68		27-May-21	03-Mar-21	27-May-21	0	1				-						
KTD.PS1.1010	Backfill fm SMI-905A to SMI-905B	20		21-Jun-21	19-Aug-21	10-Sep-21	69	1				-9						
KTD.PS1.1020	Construct fresh/salt watermain pipework (150mL)/chambers along CHC9	39		06-Aug-21	11-Sep-21	29-Oct-21	69	1									1	•••
KTD.PS1.1030	Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1	39	09-Jul-21	23-Aug-21	29-Sep-21	15-Nov-21	69	1			Ì	L=C						
KTD.PS1.1040	Backfill up to formation level for Pedestrian Street No.1	28	24-Aug-21	25-Sep-21	16-Nov-21	17-Dec-21	69	1			····						1	
	UNDERGROUND UTILITIES AT PEDESTRIAN STREET NO.3	170	28-May-21	17-Dec-21	28-May-21	17-Dec-21	0	1						-				
KTD.PS3.1000	Excavate and construct storm drain pipework (33mL) to Box Cutvert B1	48	28-May-21	24-Jul-21	28-May-21	24-Jul-21	0	1				-			·		+++-	
KTD.PS3.1010	Backfill pipework area and construct catchpits	29	26-Jul-21	27-Aug-21	26-Jul-21	27-Aug-21	0	1										
KTD.PS3.1020	Construct sewer drain pipework (171mL/manholes fm FMH10_40 to FMH10_65b	39	28-Aug-21	15-Oct-21	28-Aug-21	15-Oct-21	0	1			·····		5				++	
KTD.PS3.1030	Construct salt watermain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts	48	14-Sep-21	11-Nov-21	14-Sep-21	11-Nov-21	0	1										
KTD.PS3.1040	Backfill up to formation level for Pedestrian Street No.3	31		17-Dec-21	-	17-Dec-21	0	1						L			+	
CONSTRUCTION OF U	INDERGROUND UTILITIES AT PEDESTRIAN STREET NO.4	170		17-Dec-21		17-Dec-21	0							L				
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Critical Milestone Critical Remaining		Tak De	evelopii	ient - S		KS PR			orks a	it the	e For	mer	North	1 Apro	on Are	ea	t,	29

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ty ID		Activity Name	Dur (d)	Early Start	Early	Late Start	Late Finish	h Total	Calenda	r 020				2021	-		-	2022			2023	
	KTD.PS4.1000	Excavate and construct storm drain pipework (192mL)/catchpit/manhole fm SMH505 to SMH1005A			Finish			Float		JA	SON	DJF	MAI	JJA	SOI	NDJF	MAM	JJAS	OND	JFMA	MJJ	ASO
	KTD.PS4.1010	Excerte and construct sever drain pipework (165mL/manhole im SMP505 10 SMP1005A	48	28-May-21		28-May-21		0	1		1		-									
	KTD.PS4.1020		51	22-Jun-21	20-Aug-21			0	1													
	KTD.PS4.1030	Backfill pipework area and construct fresh watermain pipework (170mL)/chambers along CHC11	39	21-Aug-21	07-Oct-21	21-Aug-21	07-Oct-21	0	1		1			6	-							
	KTD.PS4.1040	Construct road lighting drawpits and lay cable ducts	29	08-Oct-21	11-Nov-21	08-Oct-21	11-Nov-21	0	1										1			
		Backfill up to formation level for Pedestrian Street No.4	31	12-Nov-21	17-Dec-21	12-Nov-21	17-Dec-21	0	1						-				1		1	
	KTD.PS4.1050	Planned Completion of Underground Utilities/Services within Part 3 (Related to Section 5)	0		17-Dec-21		17-Dec-21	0	2	8 5 8												
		DESTRIAN STREET NO.2 WITHIN PART 4	336	23-Nov-20	11-Jan-22	23-Nov-20	24-Feb-24	629			V	1	1			-		1	1			
	KTD.PS2.1000	Liaison/coordinate with adjacent projects (incl Station Square, Housing Sites and etc.) for interfacing issues	60	23-Nov-20	21-Jan-21	23-Nov-20	21-Jan-21	0	2									1				
	KTD.PS2.1010	Excavate and construct storm drain pipework (59mL) /catchpil/manholes from SMIH404 to SMIH402	28	22-Jan-21	26-Feb-21	22-Jan-21	26-Feb-21	0	1		1		1				1	++				
	KTD.PS2.1020	Backfill fm SMH404 to SMH402/Excavate and construct storm drain pipework (59mL)/catchpit/manhole fm SMH402 to SMH401	29	19-Feb-21	24-Mar-21	19-Feb-21	24-Mar-21	0	1			-										
	KTD.PS2.1030	Backfill fm SMH402 to SMH401/Excavate and construct storm drain pipework (59mL)/catchpit/manhole fm SMH401 to SMH400	26	17-Mar-21	20-Apr-21	17-Mar-21	20-Apr-21	0	1		1		-	· · · · · · · · · · · · · · · · · · ·				++				
	KTD.PS2.1040	Backfill within Part 4 and construct fresh watermain pipework (164mL/chambers from CH179 to CH15	39	13-Apr-21	29-May-21	13-Apr-21	29-May-21	0	1			-	4								1	
	KTD.PS2.1050	Construct road lighting drawpits and lay cable ducts/Backfill upto formation level for Pedestrian Street No.2	26	31-May-21	30-Jun-21	31-May-21	30-Jun-21	0	1		·			<b>_</b>				+				
	KTD.PS2.1060	Planned Completion of Underground Utilities/Services within Part 4 (Related to Section 4)	0		30-Jun-21		30-Jun-21	0	2		1	1	1	6								
	KTD.PS2.1070	Construct roadwork and landscape softworks within Part 4 (incl pedestrian street)	160	02-Jul-21	11-Jan-22	14-Aug-23	24-Feb-24	629	1		·						- <del> </del> +	+				
	CONSTRUCTION OF RO	DAD L16 WITHIN PART 6	303	23-Dec-23	31-Dec-24	15-Mar-24	30-Jun-25	144	1			ļ			-	П						
F	KTD.RW.2090	Liasion with developer of the sites 2A4, 2A5(B) and 2A10 and construction of drainage and sewage works within Part 6	156	23-Dec-23	06-Jul-24	15-Mar-24		66	1													
	KTD.RW.2100	Construct roadwork, remaining UUs/services and landscape softworks within Part 6 (incl remaining Road L16)	147	08-Jul-24	31-Dec-24	28-Dec-24		144	-													
	CONSTRUCTION OF RO		312	30-Jun-22	Concernance and a second				1	ļ	.j							<u> </u>				
	KTD.RW.2080	Construct roadwork, underground utilities/services within Part 5			18-Jul-23	08-Dec-22	27-Dec-23	134	1													
		IDERGROUND UTILITIES WITHIN PARTS 1B, 6A AND 7 AND REMAINING AT ALL PARTS	312	30-Jun-22	18-Jul-23	08-Dec-22			1										1	1		
1-	KTD.RW.2110	Construct underground utilities/services within remaining works of all Parts	312	13-Dec-23	31-Dec-24	13-Jun-25	30-Jun-26	441									1					
			312	13-Dec-23	31-Dec-24	13-Jun-25	30-Jun-26	441	1													
		UNDERGROUND UTILITIES WITHIN PARTS 6A AND 7	187	28-Dec-23	14-Aug-24	11-Nov-25	30-Jun-26	555					1				1					
	KTD.P67.1000	Excavate/install FWM and SWM from CH400 to CH350 (50mL) and fittings	62	28-Dec-23	12-Mar-24	11-Nov-25	24-Jan-26	555	1		1						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		1		1			1	1	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		-	1					1					ł
	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				·†	++-				
	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			1					
CON	NSTRUCTION OF ADE	OTTONAL COVER WALKWAY FP3 UNDER PMI 006	115	30-Nov-20	23-Apr-21	30-Nov-20	23-Apr-21	0							··		·	+				·· <b>·</b> ···
KT	D.FP3.1000	Land allocation/taking over from MTRC/LandsD for construction of additional footpath and cover walkway FP3	0	30-Nov-20	a section of the	30-Nov-20		0	2		7	1										
KT	D.FP3.1010	Site clearence and formation works (1 team)	18	30-Nov-20	19-Dec-20	30-Nov-20	19-Dec-20	0	1		E		·		·· <del> </del> ·····		+	+			·	
KT	D.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													
KT	D.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		- f		·		- <b> </b>			<u></u> }				
KT	D.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													
KT	D.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													
KT	D.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			Ē										
KT	D.FP3.1070	Placing concrete blocks foundation and erection of site hoarding (45m-L, 1 team)	6		29-Dec-20			10				<u> </u>						ļļ.				
KT	D.FP3.1080	Construction of foundation for footpath cover (230m3 conc, 1 team)	40			A DEC COMMENTS OF	29-Dec-20	0	1		F	5										
	D.FP3.1090	Installation of steel frame of footpath cover, site hoarding and lighting system	12			21-Dec-20	06-Jan-21	0	1		1	<b>1</b>										
	D.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													
	D.FP3.1104		15	30-Dec-20	16-Jan-21	30-Dec-20	16-Jan-21	0	1		4	1	•									
	D.FP3.1105	Construction/Installation for additional works for FP3 under CE028	76	18-Jan-21	23-Apr-21	18-Jan-21	23-Apr-21	0	1			-	P					( T	П			
		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				Þ	1								
	D.FP3.1110	Planned Completion of Additional Foolpath and Cover Walkway FP3 under PMI 006	0		23-Apr-21		23-Apr-21	0	2				-7		1	1	1					-
	ECT ESTABLISHMEN		1450	12-Jan-22	31-Dec-25	27-Sep-23	30-Jun-26	181	2				-	1	1	-	+				-	
	W.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	rt-			t+	
	W.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						լլ	-		
KTDE	W.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	L	4j					++-
	W 1030	Establishment works for landscape softworks within Part 6	365	01-Jan-25	31-Dec-25	01-Jul-25	30-Jun-26	181	2			1	1									
KTD.E											-							2 K		4.1	10	
KTD.E	W.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				11	<u>├</u>				

lilestone	Planned Work	Bey 41	Date
initical Milestone	Summary		30-Nov-23
ritical Remaining Work			29-Dec-23
			05-Feb-24
	ritical Milestone	nitical Milestone V Summary	itical Milestone Summary ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area

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# 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 January 2024

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

## January 2024

7

**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 February 2024

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

February 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**

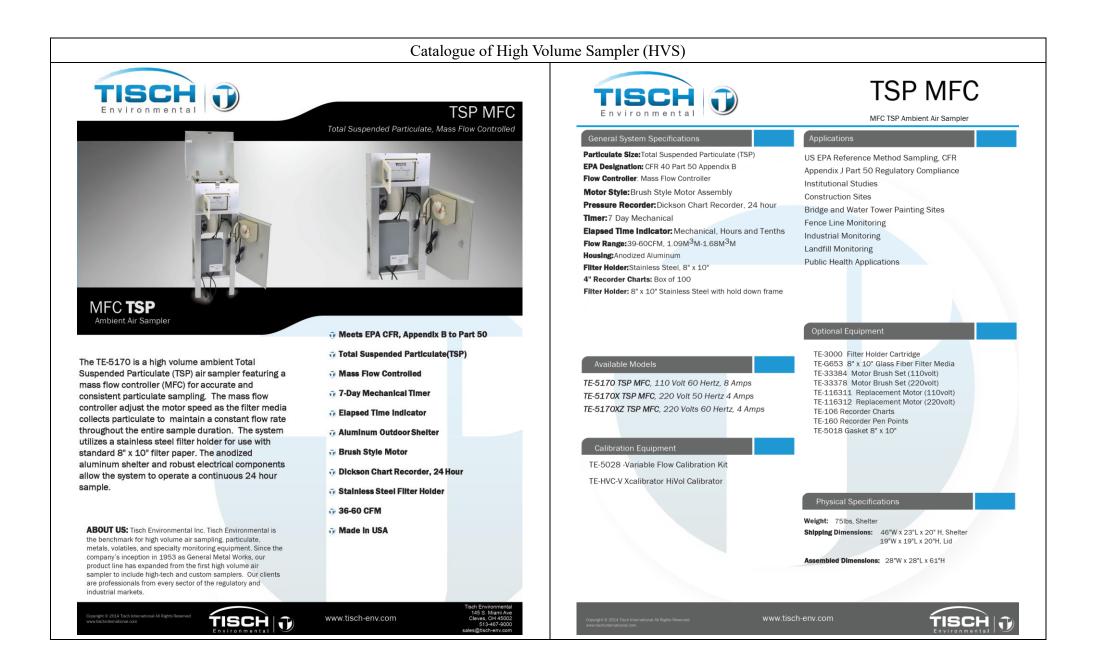
## Impact Air Quality Monitoring

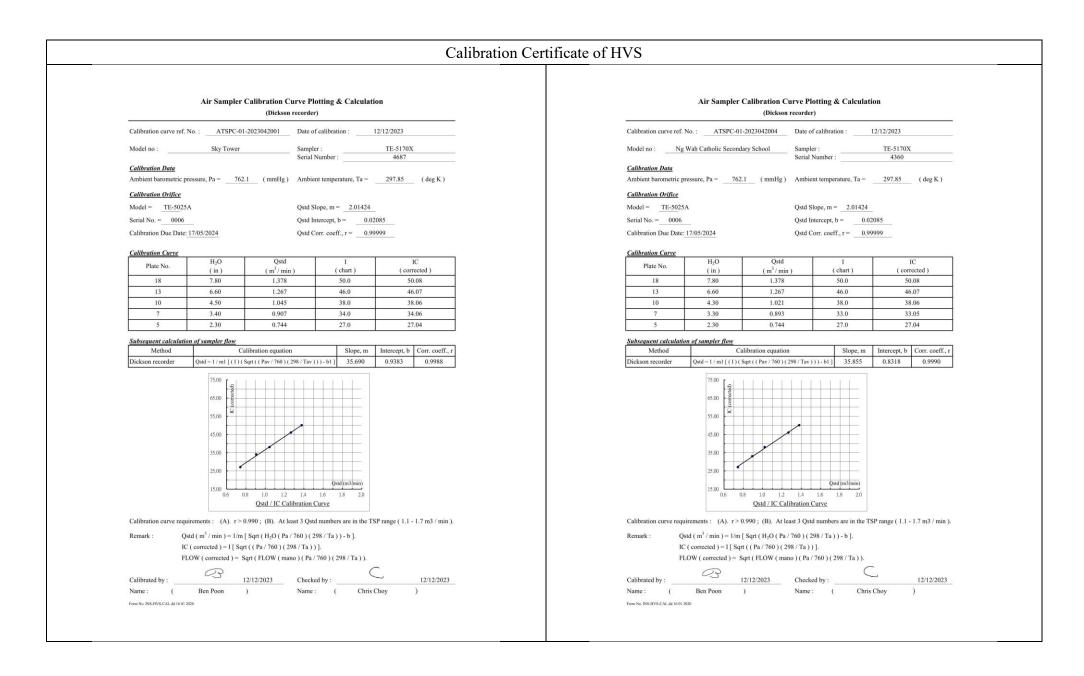


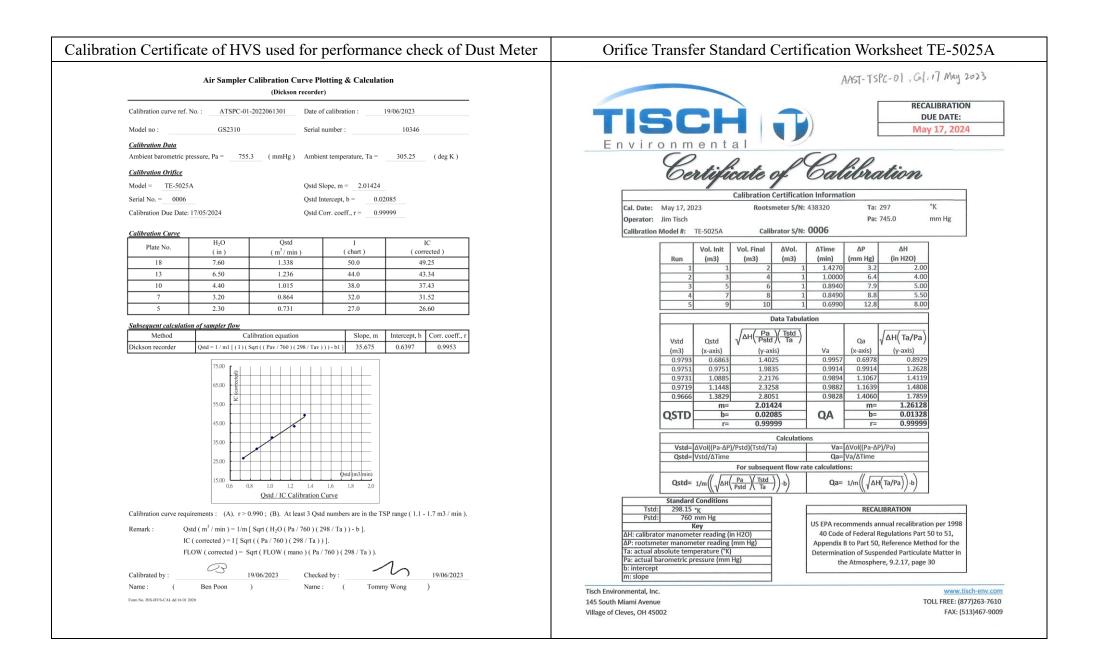
## Impact Noise Monitoring



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







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

<b>Sensiti</b> Sensor T	
Aerosol Concent	ration Range
	Size Range n Resolution pility
Tempera	ture Coefficient

Range

Flow Rate

User-adiustable, 0.7 to 1.8 liters/min (L/min)

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)

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

Storage Range **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

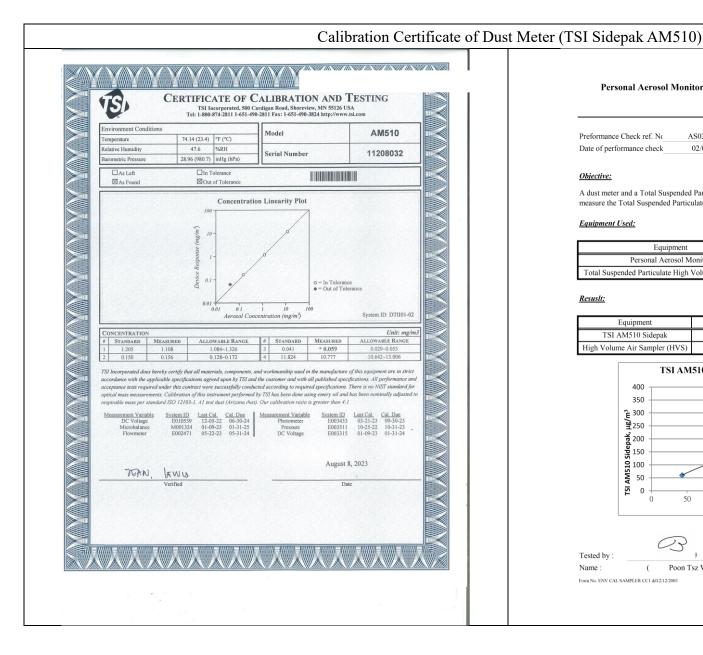
Operating System

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.

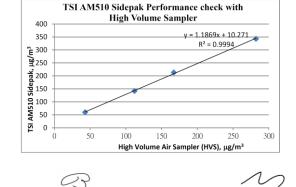
### Equipment Used:

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

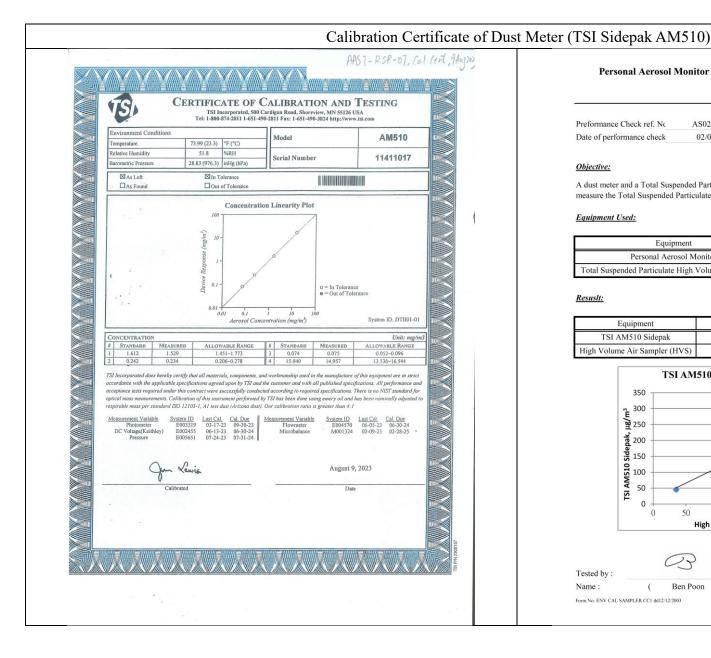
### <u>Resustt:</u>

Name :

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







### 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:**

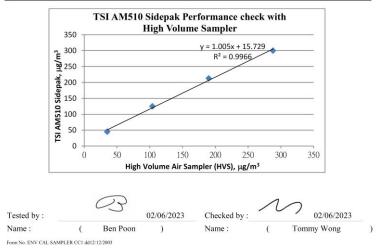
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

## Equipment Used:

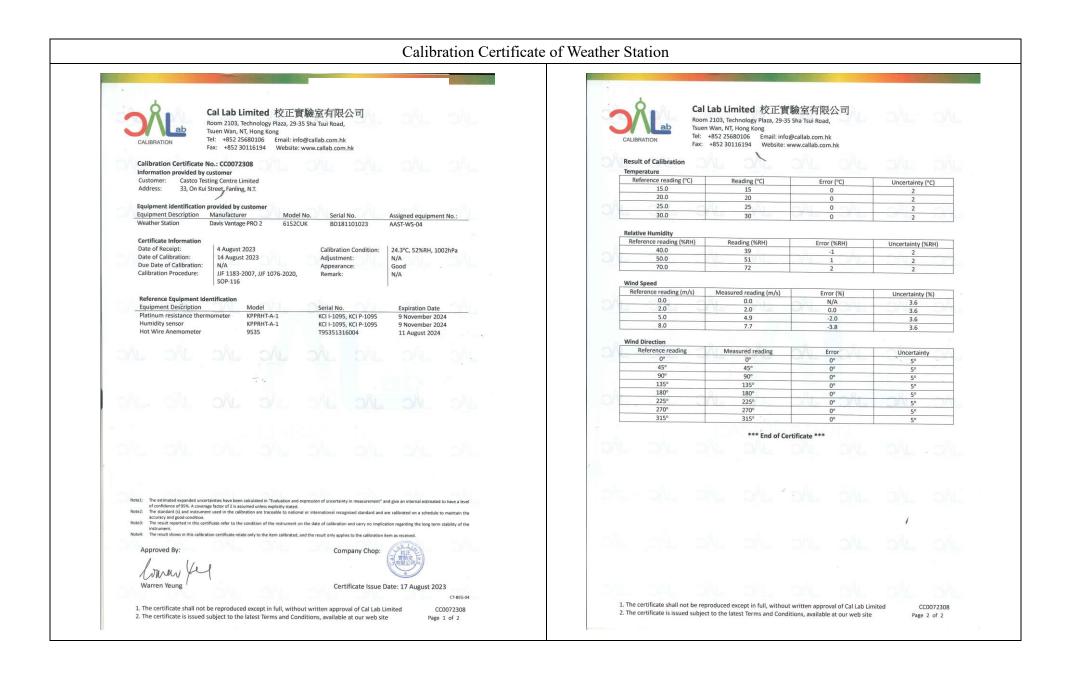
Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11411017
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

## Resust:

Equipment	Measurement Result, µg/m3			
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 Source..... United States National Weather Service (NWS)/NOAA 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 Range ..... 1 - 360° (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 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 Range ...... 0 to 200 mph, 0 to 173 knots, 0 to 89 m/s, 0 to 322 km/h 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 (%)
01/01/2024	18.8	22	0	75
02/01/2024	17.8	20.5	0	76
03/01/2024	15.7	21.6	0	64
04/01/2024	15.4	19.6	0	67
05/01/2024	16.6	22	0	75
06/01/2024	17.8	23.8	0	76
07/01/2024	18.6	21.8	0	71
08/01/2024	17.7	20.6	Trace	73
09/01/2024	18.1	23.9	Trace	77
10/01/2024	17.9	23.2	0	67
11/01/2024	17.6	21.5	Trace	69
12/01/2024	17.1	21.8	0	75
13/01/2024	17.8	22	0	57
14/01/2024	18.5	23.8	0	56
15/01/2024	18.8	24.8	0	71
16/01/2024	17.5	20.5	0	75
17/01/2024	17.7	20.6	0.1	72
18/01/2024	19.1	24.2	0	74
19/01/2024	19.2	24.2	0	76
20/01/2024	19.5	24.6	0	75
21/01/2024	16.3	21.3	Trace	68
22/01/2024	9.8	18.5	0.5	72
23/01/2024	6.3	10.4	2.7	75
24/01/2024	6.5	12.5	0	59
25/01/2024	9.5	15.5	0	56
26/01/2024	13.1	17.8	0	61
27/01/2024	13.1	18.8	1	67
28/01/2024	11.7	15.7	2.4	83
29/01/2024	14.3	17.8	Trace	82
30/01/2024	16.8	20.2	Trace	88
31/01/2024	17.9	20.2	Trace	92

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=2024&m=1

Kai Tak Runway Park Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)
01/01/2024	18.8	22.3
02/01/2024	17.7	21.0
03/01/2024	15.5	23.3
04/01/2024	15.2	19.7
05/01/2024	16.4	21.7
06/01/2024	17.5	23.0
07/01/2024	18.5	21.9
08/01/2024	17.8	20.6
09/01/2024	18.1	21.7
10/01/2024	17.9	25.0
11/01/2024	17.2	21.8
12/01/2024	17.0	21.5
13/01/2024	17.8	22.3
14/01/2024	18.6	24.9
15/01/2024	18.1	24.4
16/01/2024	17.4	20.0
17/01/2024	17.5	21.2
18/01/2024	19.8	24.9
19/01/2024	18.9	24.8
20/01/2024	19.4	26.2
21/01/2024	16.5	21.7
22/01/2024	9.9	18.6
23/01/2024	6.1	11.0
24/01/2024	6.6	13.3
25/01/2024	9.9	16.9
26/01/2024	13.1	18.0
27/01/2024	13.4	18.4
28/01/2024	11.6	15.9
29/01/2024	14.3	18.2
30/01/2024	16.9	20.5
31/01/2024	17.9	20.5

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

 $https://i-lens.hk/hkweather/history\_chart.php?date=2024-01-01\&chart\_type=DG\_TEMP$ 

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
01/01/2023	0:00	0.4	90	02/01/2023	0:00	0.4	112.5	03/01/2023	0:00	0.9	90	04/01/2023	0:00	1.3	270
01/01/2023	1:00	0.4	90	02/01/2023	1:00	0.9	45	03/01/2023	1:00	1.3	112.5	04/01/2023	1:00	0.9	45
01/01/2023	2:00	0.4	90	02/01/2023	2:00	0.9	270	03/01/2023	2:00	1.8	112.5	04/01/2023	2:00	1.3	67.5
01/01/2023	3:00	0.4	157.5	02/01/2023	3:00	0.9	90	03/01/2023	3:00	1.8	90	04/01/2023	3:00	1.3	135
01/01/2023	4:00	2.2	90	02/01/2023	4:00	1.3	90	03/01/2023	4:00	2.2	157.5	04/01/2023	4:00	1.3	90
01/01/2023	5:00	0.4	90	02/01/2023	5:00	1.8	112.5	03/01/2023	5:00	1.3	90	04/01/2023	5:00	0.9	90
01/01/2023	6:00	0.9	135	02/01/2023	6:00	1.3	90	03/01/2023	6:00	1.3	90	04/01/2023	6:00	0.4	90
01/01/2023	7:00	1.8	90	02/01/2023	7:00	1.3	112.5	03/01/2023	7:00	1.3	135	04/01/2023	7:00	0.4	112.5
01/01/2023	8:00	0.9	90	02/01/2023	8:00	0.9	45	03/01/2023	8:00	1.3	90	04/01/2023	8:00	0.9	135
01/01/2023	9:00	2.2	112.5	02/01/2023	9:00	1.3	90	03/01/2023	9:00	1.3	90	04/01/2023	9:00	0.4	112.5
01/01/2023	10:00	2.7	90	02/01/2023	10:00	0.9	315	03/01/2023	10:00	1.8	90	04/01/2023	10:00	0.9	112.5
01/01/2023	11:00	2.2	112.5	02/01/2023	11:00	0.4	315	03/01/2023	11:00	2.2	157.5	04/01/2023	11:00	0.4	112.5
01/01/2023	12:00	1.8	45	02/01/2023	12:00	0.9	67.5	03/01/2023	12:00	1.3	90	04/01/2023	12:00	0.4	112.5
01/01/2023	13:00	2.2	90	02/01/2023	13:00	0.4	90	03/01/2023	13:00	1.3	90	04/01/2023	13:00	0.4	112.5
01/01/2023	14:00	1.8	315	02/01/2023	14:00	1.3	90	03/01/2023	14:00	1.3	135	04/01/2023	14:00	0.4	135
01/01/2023	15:00	0.4	112.5	02/01/2023	15:00	1.3	90	03/01/2023	15:00	1.3	90	04/01/2023	15:00	0.4	112.5
01/01/2023	16:00	0.4	135	02/01/2023	16:00	0.9	157.5	03/01/2023	16:00	1.3	90	04/01/2023	16:00	0.4	337.5
01/01/2023	17:00	0.4	112.5	02/01/2023	17:00	1.3	90	03/01/2023	17:00	1.3	90	04/01/2023	17:00	0.4	337.5
01/01/2023	18:00	0.4	112.5	02/01/2023	18:00	0.9	90	03/01/2023	18:00	0.9	112.5	04/01/2023	18:00	0.4	337.5
01/01/2023	19:00	0.4	112.5	02/01/2023	19:00	0.4	135	03/01/2023	19:00	0.9	135	04/01/2023	19:00	0.9	337.5
01/01/2023	20:00	0.4	112.5	02/01/2023	20:00	0.9	90	03/01/2023	20:00	0.9	112.5	04/01/2023	20:00	0.4	337.5
01/01/2023	21:00	0.4	315	02/01/2023	21:00	0.4	90	03/01/2023	21:00	0.9	112.5	04/01/2023	21:00	0.9	112.5
01/01/2023	22:00	0.4	337.5	02/01/2023	22:00	0.9	112.5	03/01/2023	22:00	0.4	112.5	04/01/2023	22:00	0.4	112.5
01/01/2023	23:00	0.4	112.5	02/01/2023	23:00	0.4	112.5	03/01/2023	23:00	0.4	90	04/01/2023	23:00	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
05/01/2023	0:00	0.9	225	06/01/2023	0:00	1.3	67.5	07/01/2023	0:00	1.8	90	08/01/2023	0:00	0.4	157.5
05/01/2023	1:00	1.3	225	06/01/2023	1:00	1.3	67.5	07/01/2023	1:00	1.8	112.5	08/01/2023	1:00	0.9	157.5
05/01/2023	2:00	1.3	247.5	06/01/2023	2:00	0.9	67.5	07/01/2023	2:00	2.2	135	08/01/2023	2:00	0.9	22.5
05/01/2023	3:00	0.9	247.5	06/01/2023	3:00	1.8	45	07/01/2023	3:00	2.2	112.5	08/01/2023	3:00	0.4	22.5
05/01/2023	4:00	1.3	90	06/01/2023	4:00	1.8	67.5	07/01/2023	4:00	1.3	90	08/01/2023	4:00	0.4	45
05/01/2023	5:00	0.9	112.5	06/01/2023	5:00	1.8	67.5	07/01/2023	5:00	1.8	67.5	08/01/2023	5:00	0.9	135
05/01/2023	6:00	1.3	90	06/01/2023	6:00	1.8	45	07/01/2023	6:00	1.3	67.5	08/01/2023	6:00	0.4	112.5
05/01/2023	7:00	1.3	90	06/01/2023	7:00	1.8	90	07/01/2023	7:00	1.3	90	08/01/2023	7:00	0.4	135
05/01/2023	8:00	0.9	67.5	06/01/2023	8:00	0.9	67.5	07/01/2023	8:00	0.9	22.5	08/01/2023	8:00	0.4	112.5
05/01/2023	9:00	1.3	45	06/01/2023	9:00	1.3	90	07/01/2023	9:00	0.4	112.5	08/01/2023	9:00	0.4	90
05/01/2023	10:00	1.3	45	06/01/2023	10:00	1.8	90	07/01/2023	10:00	0.4	112.5	08/01/2023	10:00	0.4	157.5
05/01/2023	11:00	1.3	67.5	06/01/2023	11:00	1.8	90	07/01/2023	11:00	1.3	112.5	08/01/2023	11:00	0.9	112.5
05/01/2023	12:00	1.3	45	06/01/2023	12:00	1.8	112.5	07/01/2023	12:00	1.8	90	08/01/2023	12:00	0.9	22.5
05/01/2023	13:00	1.3	67.5	06/01/2023	13:00	0.9	90	07/01/2023	13:00	1.8	112.5	08/01/2023	13:00	1.8	90
05/01/2023	14:00	2.2	67.5	06/01/2023	14:00	0.4	22.5	07/01/2023	14:00	2.2	135	08/01/2023	14:00	0.9	112.5
05/01/2023	15:00	1.3	90	06/01/2023	15:00	0.4	45	07/01/2023	15:00	2.2	112.5	08/01/2023	15:00	1.3	90
05/01/2023	16:00	1.3	90	06/01/2023	16:00	0.9	135	07/01/2023	16:00	1.3	90	08/01/2023	16:00	1.3	90
05/01/2023	17:00	1.3	90	06/01/2023	17:00	0.9	112.5	07/01/2023	17:00	1.8	67.5	08/01/2023	17:00	1.3	90
05/01/2023	18:00	0.4	22.5	06/01/2023	18:00	1.3	135	07/01/2023	18:00	1.3	67.5	08/01/2023	18:00	1.8	67.5
05/01/2023	19:00	0.4	90	06/01/2023	19:00	1.3	67.5	07/01/2023	19:00	1.3	90	08/01/2023	19:00	1.8	90
05/01/2023	20:00	0.4	90	06/01/2023	20:00	1.3	67.5	07/01/2023	20:00	0.9	22.5	08/01/2023	20:00	1.8	90
05/01/2023	21:00	0.4	90	06/01/2023	21:00	0.9	67.5	07/01/2023	21:00	1.8	112.5	08/01/2023	21:00	1.3	180
05/01/2023	22:00	0.9	247.5	06/01/2023	22:00	1.8	45	07/01/2023	22:00	0.4	247.5	08/01/2023	22:00	0.9	270
05/01/2023	23:00	0.4	180	06/01/2023	23:00	1.8	67.5	07/01/2023	23:00	0.4	247.5	08/01/2023	23:00	0.9	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
09/01/2023	0:00	0.4	45	10/01/2023	0:00	1.8	45	11/01/2023	0:00	1.3	45	12/01/2023	0:00	0.4	22.5
09/01/2023	1:00	0.9	225	10/01/2023	1:00	1.3	45	11/01/2023	1:00	1.3	22.5	12/01/2023	1:00	1.3	45
09/01/2023	2:00	0.9	180	10/01/2023	2:00	1.3	22.5	11/01/2023	2:00	1.3	112.5	12/01/2023	2:00	1.3	22.5
09/01/2023	3:00	0.4	22.5	10/01/2023	3:00	1.3	112.5	11/01/2023	3:00	1.3	90	12/01/2023	3:00	1.3	112.5
09/01/2023	4:00	0.4	270	10/01/2023	4:00	1.3	90	11/01/2023	4:00	1.3	90	12/01/2023	4:00	1.3	90
09/01/2023	5:00	0.9	22.5	10/01/2023	5:00	1.3	90	11/01/2023	5:00	1.8	90	12/01/2023	5:00	1.3	90
09/01/2023	6:00	1.3	270	10/01/2023	6:00	1.8	90	11/01/2023	6:00	1.8	22.5	12/01/2023	6:00	1.8	90
09/01/2023	7:00	0.9	90	10/01/2023	7:00	1.8	22.5	11/01/2023	7:00	1.8	45	12/01/2023	7:00	1.8	22.5
09/01/2023	8:00	0.4	90	10/01/2023	8:00	1.8	45	11/01/2023	8:00	1.8	45	12/01/2023	8:00	1.8	45
09/01/2023	9:00	0.9	180	10/01/2023	9:00	1.8	45	11/01/2023	9:00	0.4	315	12/01/2023	9:00	1.8	45
09/01/2023	10:00	1.3	90	10/01/2023	10:00	0.4	315	11/01/2023	10:00	0.4	292.5	12/01/2023	10:00	0.4	315
09/01/2023	11:00	1.3	45	10/01/2023	11:00	0.4	292.5	11/01/2023	11:00	0.4	22.5	12/01/2023	11:00	0.4	292.5
09/01/2023	12:00	0.9	45	10/01/2023	12:00	0.4	22.5	11/01/2023	12:00	0.9	45	12/01/2023	12:00	0.4	22.5
09/01/2023	13:00	0.9	270	10/01/2023	13:00	0.9	270	11/01/2023	13:00	0.4	45	12/01/2023	13:00	1.3	135
09/01/2023	14:00	0.9	337.5	10/01/2023	14:00	0.4	45	11/01/2023	14:00	0.4	315	12/01/2023	14:00	0.9	90
09/01/2023	15:00	0.4	45	10/01/2023	15:00	1.8	90	11/01/2023	15:00	0.9	45	12/01/2023	15:00	1.8	157.5
09/01/2023	16:00	0.9	247.5	10/01/2023	16:00	0.9	90	11/01/2023	16:00	0.9	45	12/01/2023	16:00	1.8	90
09/01/2023	17:00	0.4	270	10/01/2023	17:00	1.3	112.5	11/01/2023	17:00	0.9	180	12/01/2023	17:00	0.9	45
09/01/2023	18:00	1.3	337.5	10/01/2023	18:00	0.9	22.5	11/01/2023	18:00	0.9	292.5	12/01/2023	18:00	0.4	45
09/01/2023	19:00	1.3	225	10/01/2023	19:00	1.3	22.5	11/01/2023	19:00	0.9	112.5	12/01/2023	19:00	0.4	315
09/01/2023	20:00	1.3	225	10/01/2023	20:00	1.3	22.5	11/01/2023	20:00	0.9	337.5	12/01/2023	20:00	0.9	45
09/01/2023	21:00	1.3	225	10/01/2023	21:00	0.4	22.5	11/01/2023	21:00	0.4	247.5	12/01/2023	21:00	0.9	45
09/01/2023	22:00	1.3	180	10/01/2023	22:00	0.4	22.5	11/01/2023	22:00	0.4	157.5	12/01/2023	22:00	0.9	180
09/01/2023	23:00	0.4	112.5	10/01/2023	23:00	0.9	22.5	11/01/2023	23:00	0.4	157.5	12/01/2023	23:00	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
13/01/2023	0:00	0.9	90	14/01/2023	0:00	1.8	112.5	15/01/2023	0:00	0.4	112.5	16/01/2023	0:00	2.2	112.5
13/01/2023	1:00	1.3	90	14/01/2023	1:00	1.3	112.5	15/01/2023	1:00	1.3	112.5	16/01/2023	1:00	1.8	112.5
13/01/2023	2:00	1.3	90	14/01/2023	2:00	0.9	112.5	15/01/2023	2:00	1.3	45	16/01/2023	2:00	1.8	90
13/01/2023	3:00	1.3	45	14/01/2023	3:00	0.9	90	15/01/2023	3:00	0.9	135	16/01/2023	3:00	1.8	112.5
13/01/2023	4:00	0.9	67.5	14/01/2023	4:00	0.9	270	15/01/2023	4:00	1.3	157.5	16/01/2023	4:00	2.2	135
13/01/2023	5:00	1.3	45	14/01/2023	5:00	0.4	112.5	15/01/2023	5:00	0.9	112.5	16/01/2023	5:00	0.9	112.5
13/01/2023	6:00	1.3	22.5	14/01/2023	6:00	0.4	112.5	15/01/2023	6:00	1.3	112.5	16/01/2023	6:00	0.9	112.5
13/01/2023	7:00	1.3	337.5	14/01/2023	7:00	0.9	112.5	15/01/2023	7:00	1.8	135	16/01/2023	7:00	0.4	337.5
13/01/2023	8:00	0.9	247.5	14/01/2023	8:00	1.8	225	15/01/2023	8:00	1.8	135	16/01/2023	8:00	0.4	270
13/01/2023	9:00	1.8	135	14/01/2023	9:00	0.9	112.5	15/01/2023	9:00	1.8	112.5	16/01/2023	9:00	0.4	112.5
13/01/2023	10:00	1.8	112.5	14/01/2023	10:00	1.3	270	15/01/2023	10:00	1.3	112.5	16/01/2023	10:00	0.4	112.5
13/01/2023	11:00	2.2	112.5	14/01/2023	11:00	0.9	157.5	15/01/2023	11:00	0.9	112.5	16/01/2023	11:00	0.9	112.5
13/01/2023	12:00	1.8	90	14/01/2023	12:00	0.9	112.5	15/01/2023	12:00	0	22.5	16/01/2023	12:00	0.9	135
13/01/2023	13:00	1.3	90	14/01/2023	13:00	1.3	112.5	15/01/2023	13:00	0.4	45	16/01/2023	13:00	0.9	135
13/01/2023	14:00	0.9	112.5	14/01/2023	14:00	1.3	112.5	15/01/2023	14:00	0.9	45	16/01/2023	14:00	0.9	112.5
13/01/2023	15:00	1.3	270	14/01/2023	15:00	1.8	90	15/01/2023	15:00	0.9	90	16/01/2023	15:00	0.9	112.5
13/01/2023	16:00	0.9	157.5	14/01/2023	16:00	1.8	112.5	15/01/2023	16:00	1.3	90	16/01/2023	16:00	0.9	90
13/01/2023	17:00	0.9	112.5	14/01/2023	17:00	1.8	135	15/01/2023	17:00	1.3	90	16/01/2023	17:00	0.9	90
13/01/2023	18:00	1.3	112.5	14/01/2023	18:00	1.3	135	15/01/2023	18:00	1.3	45	16/01/2023	18:00	0.9	90
13/01/2023	19:00	1.3	112.5	14/01/2023	19:00	0.9	90	15/01/2023	19:00	0.9	67.5	16/01/2023	19:00	0.9	90
13/01/2023	20:00	1.8	90	14/01/2023	20:00	0.4	90	15/01/2023	20:00	1.3	45	16/01/2023	20:00	1.3	112.5
13/01/2023	21:00	1.8	112.5	14/01/2023	21:00	1.8	90	15/01/2023	21:00	1.3	22.5	16/01/2023	21:00	0.9	90
13/01/2023	22:00	1.8	135	14/01/2023	22:00	1.3	135	15/01/2023	22:00	1.3	337.5	16/01/2023	22:00	0.9	90
13/01/2023	23:00	1.3	135	14/01/2023	23:00	1.3	112.5	15/01/2023	23:00	1.3	90	16/01/2023	23:00	0.9	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
17/01/2023	0:00	1.3	112.5	18/01/2023	0:00	0.9	292.5	19/01/2023	0:00	0.9	135	20/01/2023	0:00	1.3	112.5
17/01/2023	1:00	1.3	112.5	18/01/2023	1:00	0.9	112.5	19/01/2023	1:00	0.9	135	20/01/2023	1:00	1.3	112.5
17/01/2023	2:00	1.8	90	18/01/2023	2:00	0.9	135	19/01/2023	2:00	0.9	135	20/01/2023	2:00	0.9	135
17/01/2023	3:00	0.9	112.5	18/01/2023	3:00	0.9	135	19/01/2023	3:00	0.4	135	20/01/2023	3:00	0.9	135
17/01/2023	4:00	0.9	67.5	18/01/2023	4:00	1.3	135	19/01/2023	4:00	1.3	90	20/01/2023	4:00	0.9	135
17/01/2023	5:00	0.9	45	18/01/2023	5:00	0.4	112.5	19/01/2023	5:00	1.3	90	20/01/2023	5:00	0.4	135
17/01/2023	6:00	0.9	90	18/01/2023	6:00	0.9	112.5	19/01/2023	6:00	0.9	112.5	20/01/2023	6:00	1.3	90
17/01/2023	7:00	0.4	67.5	18/01/2023	7:00	0.9	112.5	19/01/2023	7:00	0.9	90	20/01/2023	7:00	1.3	90
17/01/2023	8:00	0.4	90	18/01/2023	8:00	1.3	112.5	19/01/2023	8:00	0.9	90	20/01/2023	8:00	0.9	112.5
17/01/2023	9:00	0.9	45	18/01/2023	9:00	1.3	112.5	19/01/2023	9:00	0.9	45	20/01/2023	9:00	0.9	90
17/01/2023	10:00	0.4	270	18/01/2023	10:00	1.3	112.5	19/01/2023	10:00	0.9	112.5	20/01/2023	10:00	0.9	90
17/01/2023	11:00	0.4	90	18/01/2023	11:00	0.9	135	19/01/2023	11:00	0.9	90	20/01/2023	11:00	0.9	45
17/01/2023	12:00	0.9	337.5	18/01/2023	12:00	0.9	90	19/01/2023	12:00	0.4	90	20/01/2023	12:00	0.9	112.5
17/01/2023	13:00	0.4	90	18/01/2023	13:00	0.9	90	19/01/2023	13:00	0.9	90	20/01/2023	13:00	0.4	135
17/01/2023	14:00	0.4	112.5	18/01/2023	14:00	0.9	112.5	19/01/2023	14:00	1.3	135	20/01/2023	14:00	1.3	45
17/01/2023	15:00	1.3	67.5	18/01/2023	15:00	1.8	90	19/01/2023	15:00	2.2	90	20/01/2023	15:00	0.4	90
17/01/2023	16:00	1.3	112.5	18/01/2023	16:00	1.3	67.5	19/01/2023	16:00	2.2	45	20/01/2023	16:00	0.4	45
17/01/2023	17:00	0.9	90	18/01/2023	17:00	1.3	90	19/01/2023	17:00	2.2	112.5	20/01/2023	17:00	0.4	112.5
17/01/2023	18:00	1.3	22.5	18/01/2023	18:00	0.9	135	19/01/2023	18:00	0.4	90	20/01/2023	18:00	0.9	112.5
17/01/2023	19:00	1.3	90	18/01/2023	19:00	0.4	112.5	19/01/2023	19:00	0.9	67.5	20/01/2023	19:00	0.9	90
17/01/2023	20:00	1.8	45	18/01/2023	20:00	0.9	90	19/01/2023	20:00	0.9	90	20/01/2023	20:00	0.9	90
17/01/2023	21:00	1.8	90	18/01/2023	21:00	0.9	90	19/01/2023	21:00	1.3	135	20/01/2023	21:00	0.9	45
17/01/2023	22:00	0.9	90	18/01/2023	22:00	0.4	247.5	19/01/2023	22:00	1.3	112.5	20/01/2023	22:00	0.9	112.5
17/01/2023	23:00	1.8	90	18/01/2023	23:00	0.4	247.5	19/01/2023	23:00	1.3	90	20/01/2023	23:00	0.9	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
21/01/2023	0:00	1.3	90	22/01/2023	0:00	0.9	45	23/01/2023	0:00	2.2	90	24/01/2023	0:00	0.4	112.5
21/01/2023	1:00	1.3	112.5	22/01/2023	1:00	1.3	292.5	23/01/2023	1:00	1.8	90	24/01/2023	1:00	0.9	135
21/01/2023	2:00	1.3	90	22/01/2023	2:00	0.4	292.5	23/01/2023	2:00	1.3	112.5	24/01/2023	2:00	1.8	135
21/01/2023	3:00	1.3	112.5	22/01/2023	3:00	0.4	270	23/01/2023	3:00	1.3	112.5	24/01/2023	3:00	1.3	112.5
21/01/2023	4:00	1.3	112.5	22/01/2023	4:00	1.3	270	23/01/2023	4:00	1.3	337.5	24/01/2023	4:00	1.3	135
21/01/2023	5:00	0.9	90	22/01/2023	5:00	2.2	247.5	23/01/2023	5:00	1.3	315	24/01/2023	5:00	1.8	135
21/01/2023	6:00	1.3	90	22/01/2023	6:00	1.8	247.5	23/01/2023	6:00	1.3	112.5	24/01/2023	6:00	1.3	135
21/01/2023	7:00	1.8	112.5	22/01/2023	7:00	1.8	247.5	23/01/2023	7:00	1.3	112.5	24/01/2023	7:00	0.9	90
21/01/2023	8:00	1.3	90	22/01/2023	8:00	1.8	112.5	23/01/2023	8:00	1.3	112.5	24/01/2023	8:00	0.9	90
21/01/2023	9:00	1.8	112.5	22/01/2023	9:00	1.3	157.5	23/01/2023	9:00	1.8	112.5	24/01/2023	9:00	1.8	112.5
21/01/2023	10:00	1.8	90	22/01/2023	10:00	0.9	112.5	23/01/2023	10:00	1.8	90	24/01/2023	10:00	1.8	90
21/01/2023	11:00	1.8	112.5	22/01/2023	11:00	0.9	90	23/01/2023	11:00	1.8	112.5	24/01/2023	11:00	1.8	112.5
21/01/2023	12:00	1.8	90	22/01/2023	12:00	0.9	90	23/01/2023	12:00	2.2	90	24/01/2023	12:00	2.2	90
21/01/2023	13:00	1.3	67.5	22/01/2023	13:00	1.8	90	23/01/2023	13:00	0.9	90	24/01/2023	13:00	0.4	112.5
21/01/2023	14:00	0.4	67.5	22/01/2023	14:00	0.4	135	23/01/2023	14:00	1.3	90	24/01/2023	14:00	0.9	135
21/01/2023	15:00	0.9	90	22/01/2023	15:00	0.4	90	23/01/2023	15:00	1.8	112.5	24/01/2023	15:00	1.8	135
21/01/2023	16:00	0.4	45	22/01/2023	16:00	0.9	112.5	23/01/2023	16:00	1.3	90	24/01/2023	16:00	1.3	112.5
21/01/2023	17:00	0.9	270	22/01/2023	17:00	0.9	67.5	23/01/2023	17:00	1.8	112.5	24/01/2023	17:00	1.3	135
21/01/2023	18:00	0.9	90	22/01/2023	18:00	0.4	67.5	23/01/2023	18:00	1.8	90	24/01/2023	18:00	1.8	135
21/01/2023	19:00	0.9	337.5	22/01/2023	19:00	0.4	67.5	23/01/2023	19:00	1.8	112.5	24/01/2023	19:00	1.3	135
21/01/2023	20:00	1.3	90	22/01/2023	20:00	0.4	67.5	23/01/2023	20:00	1.8	90	24/01/2023	20:00	0.9	90
21/01/2023	21:00	1.3	180	22/01/2023	21:00	0.9	90	23/01/2023	21:00	1.3	90	24/01/2023	21:00	0.9	90
21/01/2023	22:00	1.3	180	22/01/2023	22:00	0.9	90	23/01/2023	22:00	0.9	112.5	24/01/2023	22:00	0.9	112.5
21/01/2023	23:00	1.3	90	22/01/2023	23:00	0.4	112.5	23/01/2023	23:00	0.9	225	24/01/2023	23:00	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
25/01/2023	0:00	0.4	67.5	26/01/2023	0:00	0.9	112.5	27/01/2023	0:00	2.2	90	28/01/2023	0:00	0.9	45
25/01/2023	1:00	0.9	225	26/01/2023	1:00	0.9	112.5	27/01/2023	1:00	1.8	90	28/01/2023	1:00	0.9	90
25/01/2023	2:00	0.9	67.5	26/01/2023	2:00	0.9	90	27/01/2023	2:00	0.9	247.5	28/01/2023	2:00	0.4	112.5
25/01/2023	3:00	1.8	225	26/01/2023	3:00	0.9	135	27/01/2023	3:00	0.9	247.5	28/01/2023	3:00	0.4	90
25/01/2023	4:00	0.9	67.5	26/01/2023	4:00	0.4	247.5	27/01/2023	4:00	0.9	247.5	28/01/2023	4:00	0.9	45
25/01/2023	5:00	1.3	22.5	26/01/2023	5:00	0.9	180	27/01/2023	5:00	0.4	247.5	28/01/2023	5:00	0.9	45
25/01/2023	6:00	1.3	45	26/01/2023	6:00	0.9	135	27/01/2023	6:00	0.9	45	28/01/2023	6:00	0.9	45
25/01/2023	7:00	0.9	90	26/01/2023	7:00	0.4	45	27/01/2023	7:00	0.9	45	28/01/2023	7:00	0.4	90
25/01/2023	8:00	1.8	112.5	26/01/2023	8:00	1.3	90	27/01/2023	8:00	0.9	67.5	28/01/2023	8:00	0.9	90
25/01/2023	9:00	1.3	90	26/01/2023	9:00	0.9	112.5	27/01/2023	9:00	1.3	67.5	28/01/2023	9:00	0.9	45
25/01/2023	10:00	0.9	67.5	26/01/2023	10:00	1.3	90	27/01/2023	10:00	1.8	90	28/01/2023	10:00	0.9	22.5
25/01/2023	11:00	0.9	270	26/01/2023	11:00	0.9	67.5	27/01/2023	11:00	2.7	247.5	28/01/2023	11:00	0.9	45
25/01/2023	12:00	0.9	112.5	26/01/2023	12:00	0.9	247.5	27/01/2023	12:00	1.3	247.5	28/01/2023	12:00	1.3	45
25/01/2023	13:00	1.8	90	26/01/2023	13:00	0.9	247.5	27/01/2023	13:00	2.2	270	28/01/2023	13:00	0.4	45
25/01/2023	14:00	1.8	90	26/01/2023	14:00	1.3	247.5	27/01/2023	14:00	0.4	247.5	28/01/2023	14:00	0.9	45
25/01/2023	15:00	0.9	45	26/01/2023	15:00	1.3	270	27/01/2023	15:00	0.9	247.5	28/01/2023	15:00	0.9	45
25/01/2023	16:00	0.9	22.5	26/01/2023	16:00	1.3	90	27/01/2023	16:00	0.9	247.5	28/01/2023	16:00	0.9	45
25/01/2023	17:00	1.3	22.5	26/01/2023	17:00	1.3	67.5	27/01/2023	17:00	1.3	270	28/01/2023	17:00	0.4	45
25/01/2023	18:00	1.3	90	26/01/2023	18:00	1.3	270	27/01/2023	18:00	1.3	112.5	28/01/2023	18:00	0.9	45
25/01/2023	19:00	0.9	112.5	26/01/2023	19:00	1.3	112.5	27/01/2023	19:00	1.8	67.5	28/01/2023	19:00	0.9	45
25/01/2023	20:00	1.3	45	26/01/2023	20:00	1.3	90	27/01/2023	20:00	0.9	112.5	28/01/2023	20:00	0.9	67.5
25/01/2023	21:00	1.3	67.5	26/01/2023	21:00	1.3	90	27/01/2023	21:00	0.9	90	28/01/2023	21:00	1.3	67.5
25/01/2023	22:00	1.3	90	26/01/2023	22:00	1.3	45	27/01/2023	22:00	0.9	180	28/01/2023	22:00	1.8	90
25/01/2023	23:00	0.9	90	26/01/2023	23:00	0.9	22.5	27/01/2023	23:00	0.9	112.5	28/01/2023	23:00	2.2	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
29/01/2023	0:00	0.4	112.5	30/01/2023	0:00	0.4	45	31/01/2023	0:00	0.9	67.5				
29/01/2023	1:00	0.4	90	30/01/2023	1:00	1.3	67.5	31/01/2023	1:00	0.9	67.5				
29/01/2023	2:00	0.4	45	30/01/2023	2:00	1.3	67.5	31/01/2023	2:00	0.9	45				
29/01/2023	3:00	0.9	45	30/01/2023	3:00	0.4	67.5	31/01/2023	3:00	1.3	90				
29/01/2023	4:00	0.9	22.5	30/01/2023	4:00	0.9	45	31/01/2023	4:00	0.9	45				
29/01/2023	5:00	0.4	292.5	30/01/2023	5:00	0.9	90	31/01/2023	5:00	0.9	270				
29/01/2023	6:00	1.3	247.5	30/01/2023	6:00	0.9	135	31/01/2023	6:00	0.9	270				
29/01/2023	7:00	0.9	247.5	30/01/2023	7:00	0.9	90	31/01/2023	7:00	0.9	90				
29/01/2023	8:00	0.9	247.5	30/01/2023	8:00	0.9	270	31/01/2023	8:00	1.3	22.5				
29/01/2023	9:00	0.4	202.5	30/01/2023	9:00	0.9	112.5	31/01/2023	9:00	0.4	67.5				
29/01/2023	10:00	0.4	225	30/01/2023	10:00	0.9	45	31/01/2023	10:00	0.9	112.5				
29/01/2023	11:00	0.9	225	30/01/2023	11:00	0.9	90	31/01/2023	11:00	0.9	112.5				
29/01/2023	12:00	0.4	180	30/01/2023	12:00	0.4	90	31/01/2023	12:00	0.4	157.5				
29/01/2023	13:00	0.4	90	30/01/2023	13:00	0.4	67.5	31/01/2023	13:00	0.4	315				
29/01/2023	14:00	0.9	337.5	30/01/2023	14:00	1.8	90	31/01/2023	14:00	0.4	202.5				
29/01/2023	15:00	0.4	202.5	30/01/2023	15:00	1.8	45	31/01/2023	15:00	0.4	225				
29/01/2023	16:00	0.4	225	30/01/2023	16:00	1.8	45	31/01/2023	16:00	0.9	270				
29/01/2023	17:00	0.9	67.5	30/01/2023	17:00	1.3	22.5	31/01/2023	17:00	0.4	247.5				
29/01/2023	18:00	0.9	225	30/01/2023	18:00	0.9	292.5	31/01/2023	18:00	0.4	225				
29/01/2023	19:00	0.4	180	30/01/2023	19:00	0.4	247.5	31/01/2023	19:00	0.9	247.5				
29/01/2023	20:00	0.9	135	30/01/2023	20:00	0.9	247.5	31/01/2023	20:00	0.9	225				
29/01/2023	21:00	0.9	22.5	30/01/2023	21:00	0.9	247.5	31/01/2023	21:00	0.9	225				
29/01/2023	22:00	1.3	315	30/01/2023	22:00	0.9	45	31/01/2023	22:00	0	225				
29/01/2023	23:00	0.9	112.5	30/01/2023	23:00	0.4	45	31/01/2023	23:00	0	247.5				

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

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

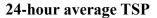
Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cfi		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	$(\mu g/m^3)$
04/01/2024	Sunny	19.7	1020.9	15.1205	15.2753	0.1548	2024/1/4 13:20	2024/1/5 13:20	1440	50	50	1.39	2000	77
10/01/2024	Sunny	23.2	1018.6	15.0683	15.1214	0.0531	2024/1/10 9:30	2024/1/11 9:30	1440	52	52	1.44	2067	26
16/01/2024	Cloudy	18.5	1022.1	15.2483	15.3418	0.0935	2024/1/16 9:00	2024/1/17 9:00	1440	50	50	1.39	2006	47
22/01/2024	Cloudy	14.5	1023.3	15.1289	15.4239	0.2950	2024/1/22 13:15	2024/1/23 13:15	1440	52	52	1.46	2103	140
27/01/2024	Sunny	18.4	1025.8	18.5006	18.6560	0.1554	2024/1/27 13:05	2024/1/28 13:05	1440	50	50	1.40	2010	77
			•			•	•	•				Maxim	um	140
												Minim	um	26

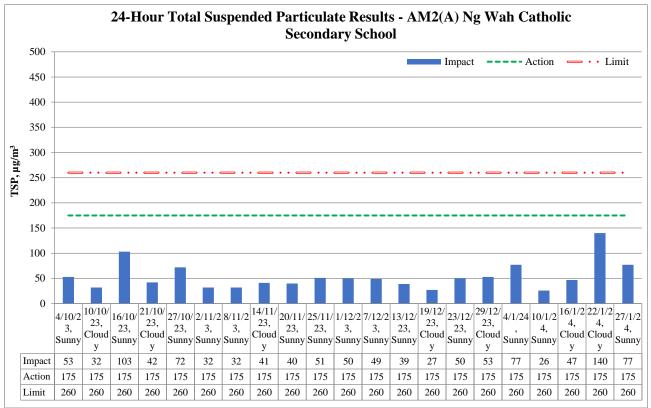
Location: AM2(A) – Ng Wah Catholic Secondary School

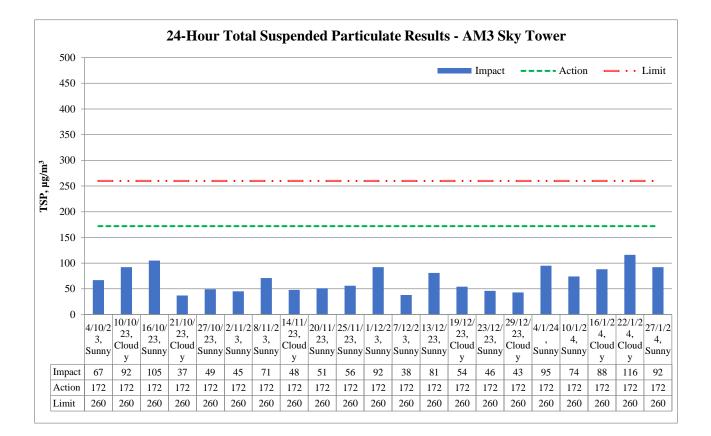
1.40	2010	77						
Maxim	um	140						
Minim	Minimum							
Avera	ge	73						
Action I	Level	175						
Limit L	evel	260						

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filler weight (g)		0,00		Elapse Time Sampling Time		Flow (cfi		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	$(\mu g/m^3)$
04/01/2024	Sunny	19.7	1020.9	18.3215	18.5122	0.1907	2024/1/4 9:26	2024/1/5 9:26	1440	50	50	1.39	2005	95
10/01/2024	Sunny	23.2	1018.6	18.2349	18.3828	0.1479	2024/1/10 13:34	2024/1/11 13:34	1440	50	50	1.38	1991	74
16/01/2024	Cloudy	18.5	1022.1	18.3812	18.5589	0.1777	2024/1/16 13:22	2024/1/17 13:22	1440	50	50	1.40	2011	88
22/01/2024	Cloudy	14.5	1023.3	15.1555	15.3712	0.2157	2024/1/22 9:36	2024/1/23 9:36	1440	46	46	1.29	1861	116
27/01/2024	Sunny	18.4	1025.8	15.7052	15.8749	0.1697	2024/1/27 9:34	2024/1/28 9:34	1440	46	46	1.29	1851	92
												Maxi	mum	116
												Mini	mum	74

Minimum	74
Average	93
Action Level	172
Limit Level	260







		Reporting Period					
Major Construction Activities	Oct	Nov	Dec	Jan			
	2023	2023	2023	2024			
Construction works for DCS	$\checkmark$	✓	✓				
Construction Works for DCS 2A5B and 2A10				✓			
Construction of Retaining Wall Type 1 for S14	$\checkmark$	✓	✓	✓			
Construction of Pile Cap for S14	$\checkmark$	✓	✓	✓			
Construction works for SMH404 and SMH505	$\checkmark$	✓	✓	$\checkmark$			
Construction of Permanent Shaft Structure of SB-01		✓	✓	$\checkmark$			
Demolition of bearing wall of S14	$\checkmark$	✓					
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		✓	✓	$\checkmark$			
Erection of falseworks and working platform for decking of Elevated Walkway	✓	<b>√</b>	1				
LW-02	•	•	v	v			
RTBM dismantle	$\checkmark$						
RC construction for decking of Elevated Walkway LW-02	$\checkmark$	$\checkmark$	✓	$\checkmark$			
RC construction for Subway KS10 Lift and Staircase							
RC construction works for lift and staircase of LW-02	$\checkmark$	✓	✓	✓			
Renovation works for Subway KS10 Lift and Staircase	$\checkmark$	✓	✓	✓			
Renovation works for existing subways KS9, KS32 and KS10	$\checkmark$	✓	✓				
Renovation works for existing subways KS10				✓			
Road and Drain Construction works for Road L16, Commercial Street and	✓	1	1	~			
Road D1	•	<b>v</b>		v			
Road and drain construction works for Olympic Avenue	$\checkmark$	$\checkmark$	$\checkmark$	✓			

	Reporting Period					
Factors might affect the monitoring results	Oct	Nov	Dec	Jan		
	2023	2023	2023	2024		
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~		

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

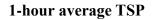
	Date	Measurement Period			1-hr TSP concentration, $\mu g/m^3$	Weather	
Location:		13:00	-	14:00	101		
AM2(A) –	04/01/2024	14:00	-	15:00	89	Sunny	
Ng Wah Catholic		15:00	-	16:00	99		
Secondary School		9:00	-	10:00	42		
Secondary School	10/01/2024	10:00	-	11:00	40	Sunny	
		11:00	-	12:00	32		
ĺ		9:00	-	10:00	45		
ĺ	16/01/2024	10:00	-	11:00	42	Cloudy	
		11:00	-	12:00	38		
	22/01/2024	13:00	-	14:00	123		
		14:00	-	15:00	141	Cloudy	
ĺ		15:00	-	16:00	135		
		9:00	-	10:00	48		
ĺ	27/01/2024	10:00	-	11:00	48	Sunny	
		11:00	-	12:00	57		
	М	aximum			141		
		linimum			32		
		Average			72		
		tion Level			302		
	L11	mit Level			500		

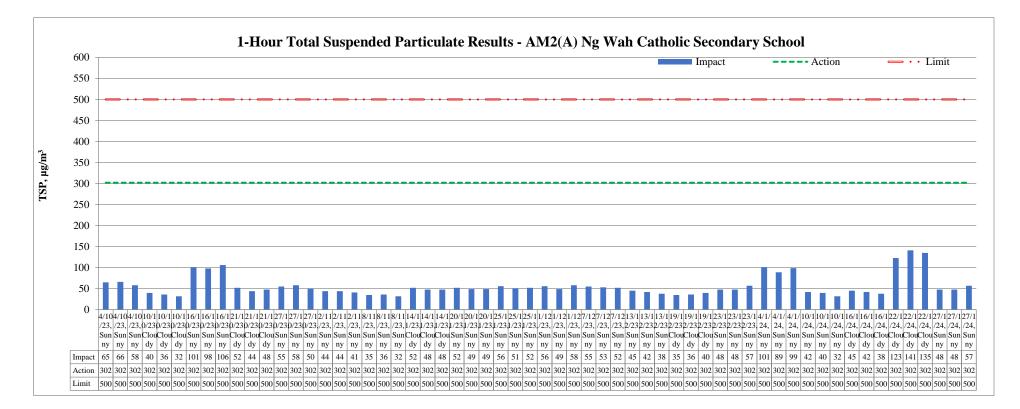
Г

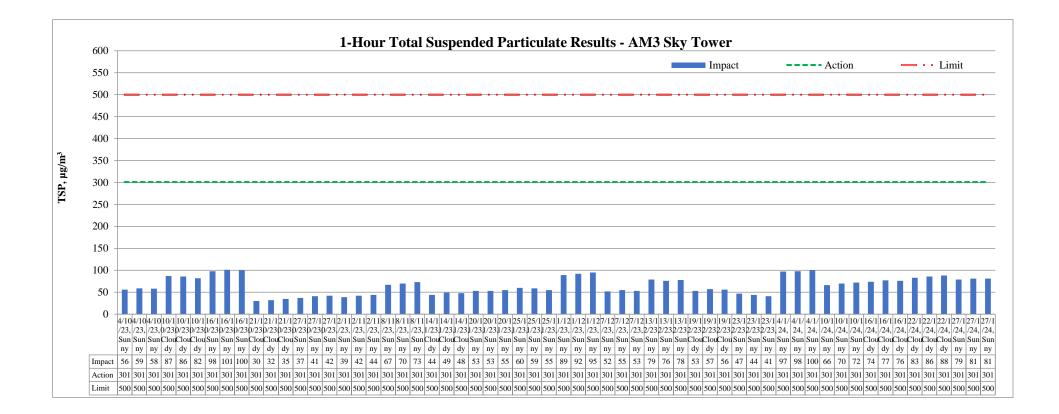
AM3 -

Sky Tower

Date	Measurement Period			1-hr TSP concentration, $\mu g/m^3$	Weather		
	9:00	-	10:00	97			
04/01/2024	10:00	-	11:00	98	Sunny		
	11:00	-	12:00	100			
	13:00	-	14:00	66			
10/01/2024	14:00	-	15:00	70	Sunny		
	15:00	-	16:00	72			
	13:00	-	14:00	74			
16/01/2024	14:00	-	15:00	77	Cloudy		
	15:00	-	16:00	76			
	9:00	-	10:00	83			
22/01/2024	10:00	-	11:00	86	Cloudy		
	11:00	-	12:00	88			
	9:00	-	10:00	79			
27/01/2024	10:00	-	11:00	81	Sunny		
	11:00	-	12:00	81			
Maximum				100			
Minimum				66			
Average				82			
	ction Leve			301			
L	imit Leve	1		500			







		Reporting Period					
Major Construction Activities	Oct	Nov	Dec	Jan			
	2023	2023	2023	2024			
Construction works for DCS	$\checkmark$	✓	✓				
Construction Works for DCS 2A5B and 2A10				✓			
Construction of Retaining Wall Type 1 for S14	✓	✓	✓	✓			
Construction of Pile Cap for S14	~	✓	$\checkmark$	~			
Construction works for SMH404 and SMH505	~	✓	$\checkmark$	~			
Construction of Permanent Shaft Structure of SB-01		✓	$\checkmark$	~			
Demolition of bearing wall of S14	~	✓					
Dismantling Falsework and Portal Frame at LW-02			$\checkmark$	~			
Modification works for Rising Main chamber WOC1, AVC2 and K1	~	✓					
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	~	1	1	1			
Walkway LW-02		•	•	•			
RTBM dismantle	$\checkmark$						
RC construction for decking of Elevated Walkway LW-02	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
RC construction for Subway KS10 Lift and Staircase							
RC construction works for lift and staircase of LW-02	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Renovation works for Subway KS10 Lift and Staircase	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Renovation works for existing subways KS9, KS32 and KS10	~	✓	$\checkmark$				
Renovation works for existing subways KS10				$\checkmark$			
Road and Drain Construction works for Road L16, Commercial Street and	~	~	~	~			
Road D1							
Road and drain construction works for Olympic Avenue	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			

	Reporting Period					
Factors might affect the monitoring results	Oct	Nov	Dec	Jan		
	2023	2023	2023	2024		
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~		

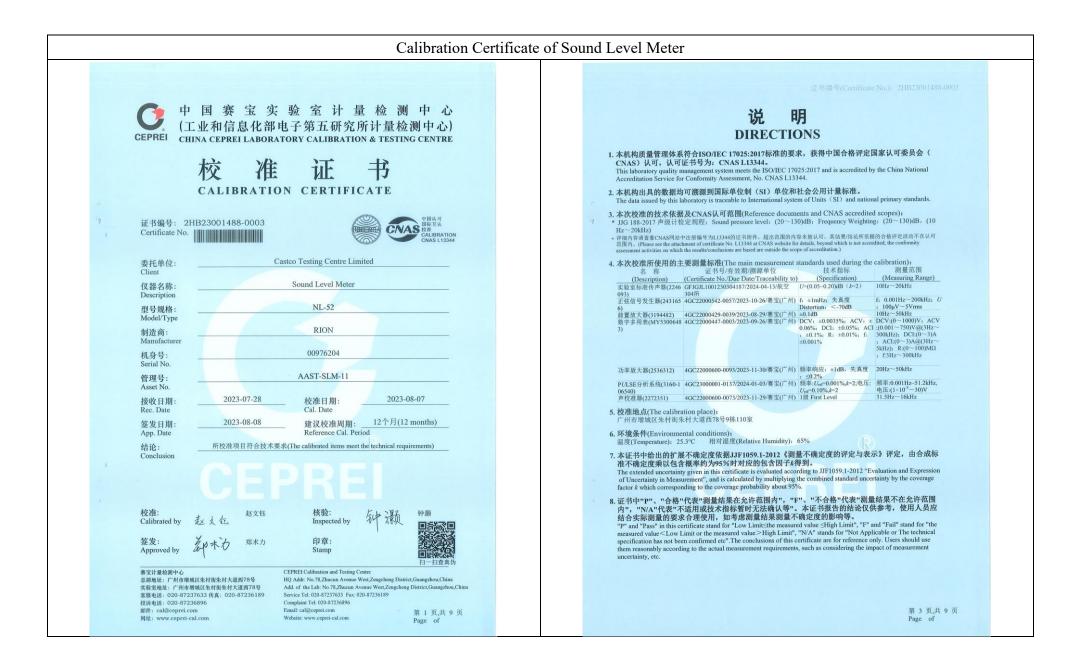
Appendix I – Event and Action Plan for air quality

<b>D</b> (		Actio	on			
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 submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. 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;	submitted by ET; 2. Check Contractor's	notification of exceedance in writing;	1. Discuss with ET and IEC on proper remedial actions;		
sampling	2. Inform Contractor, IEC and Supervisor /ER;	U i	<ol> <li>Notify Contractor;</li> <li>In consolidation with the</li> </ol>	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	<ul><li>measures to be implemented;</li><li>4. Supervise implementation</li></ul>	of notification; 3. Implement the agreed proposals;		
	5. Assess the effectiveness of Contractor's remedial actions;	measures.	<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 exceeded by one sampling	1. Identify source and investigate the causes of exceedance;	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Discuss with ET and IEC</li> </ol>		
	2. Inform Contractor, IEC, Supervisor /ER, and EPD;	working method; 2	<ol> <li>Notify Contractor;</li> <li>In consolidation with the</li> </ol>	on proper remedial actions;		
	3. Repeat measurement to confirm finding;	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		

	Action										
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 informed of the results;</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>							
	<ol> <li>If exceedance stop, cease additional monitoring.</li> </ol>										

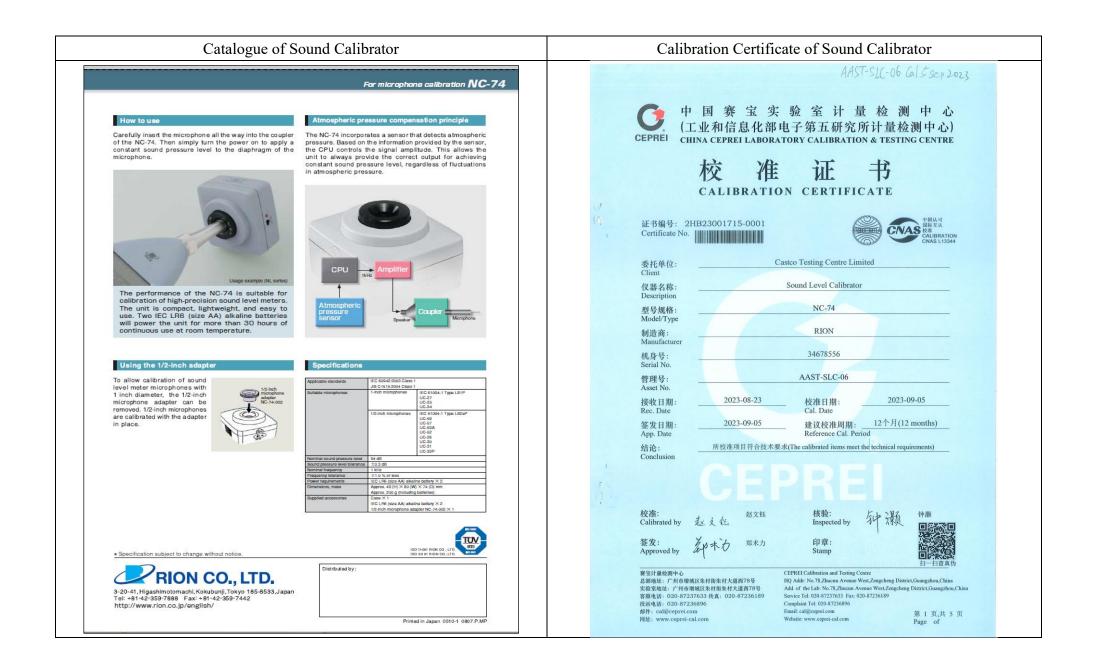
Appendix J – Calibration certificates, catalogue of noise monitoring equipment

			•						
Spec	ifications								
					recall		Allows viewing of stored data		
		NL-52	NL-42	Setup	p memor	У	Up to five setup configurations ca Start up via file settings previou	an be saved in internal memory, for later re sly stored on SD card possible	call
Аррисари	e standards	IEC 61672-1: 2002 Class 1 ANSI S1.4-1983 Type 1	TEC 61672-1: 2002 Class 2 ANSI S1.4-1983 Type 2		form recor				_
		ANSI S1.4A-1985 Type 1	ANSI S1.4A-1985 Type 2		le format ampling fre		Uncompressed waveform WAV Select 48 kHz, 24 kHz or 12 kH		_
		ANSI S1.43-1997 Type 1 JIS C 1509-1: 2005 Class 1	ANSI S1.43-1997 Type 2 JIS C 1509-1: 2005 Class 2	Da	ata lengti	h	Select 24 bit or 16 bit		
	•		C, Low Voltage Directive 2006/95/EC),	Outputs	s DC ou Out	put voltage	2.5 V, 25 mV / dB at bar graph	y weighting characteristic selected by process display full scale	sing.
Measurer	ment functions	WEEE Directives, Chinese RoHS (e Simultaneous measurement of the f			AC ou	tput	Output AC signals using a freque processing or by A, C, Z-weight	ency weighting characteristic selected by	(
Proces	sing (main ch)	weighting and frequency weighting Instantaneous sound pressure level	1.0		Out	put voltage	1 V (rms values) at bar graph d		
110003	sang (main on)	Equivalent continuous sound pressule level			Compa output			or output exceeds the set value current 60 mA, allowable dissipation 300 mN	100
		Sound exposure level: LE Maximum sound pressure level: Lm:		USB	£2 (2			computer and recognized as a removable	
		Minimum sound pressure level: Lmin		BS-2		nmunication	Allows USB to be controlled via of Allows for RS-232C communication	ommunication commands ition via use of a dedicated cable	
Proces	sing (sub ch)	Percentile sound levels: LN (0.1 to 99 Instantaneous sound pressure level	9 %, 0.1-increment steps, max. 5 values)	Data	continuo	us output *2			
	onal processing	In addition to main processing items	, one of the following can be selected	Ty		stantaneous value rocessed value	Lp Leq, Lmax, Lmin, Lpeak		$\neg$
		for simultaneous processing: C-weighted equivalent continuous s	ound level: Lceq	Ou	utput inte		100 ms		
		C-weighted peak sound level: Lcpea	k la la la la la la la la la la la la la	Print Powe	out er require	ements	Printing of measurement results Four IEC R6 (size AA) batteries (alkalin	s on dedicated printer DPU-414 e or rechargeable batteries) or external power sup	ply
		Z-weighted peak sound level: Lzpeak 1-time-weighted equivalent continuous			attery life		Alkaline battery LR6 (AA): 26 h	Ni-MH secondary battery: 25 h	
		Maximum 1-time-weighted equivalent of	ontinuous sound level: LAImax*2	AC	C adapte	r	At the maximum * Depends on NC-98C (NC-34 for previous me		$\neg$
		The power average of the maximum le The frequency weighting for the additional pro	vel of each 5 second interval: LAtm 5 cessing synchronizes with the frequency weighting	Ex	kternal po	ower voltage	5 to 7 V (rated voltage: 6 V) Approximately 90 mA (normal c	noration_rated voltage)	
		of the sub-channel, so when the sub-channel		Ambie		nsumption emperature	-10 to +50 °C	peration, rated voltage)	_
		(Lzpeak) are selectable.	d, the additional processing Lceq and Lcpeak	condit		lumidity	10 to 90 % RH (non-condensing		
Measurin Microphone		10 s, 1, 5, 10, 15, 30 m, 1, 8, 24 h, a UC-59	and manual (maximum 24 h) UC-52		proof / wa rmance *	iter-resistant 4	IP code: IP54 (except for micro See precautions regarding wate	rproofing	
	Sensitivity level	-27 dB	-33 dB		nsions, v			im(D), approx. 400 g (with batteries) -10 x 1, Windscreen fall prevention rubber x	1
Measurer	ment range	A-weighting: 25 dB to 138 dB C-weighting: 33 dB to 138 dB		Supp		330,103	Hand strap x 1, LR6 (AA) alkaline	batteries x 4, SD card 512 MB×1 (NX-42EX	
		Z-weighting: 38 dB to 138 dB					preinstalled model only)		
		C-weighting peak sound level: 55 dl Z-weighting peak sound level: 60 dl		Opti	ions				
Inherent	A-weighting	17 dB or less	19 dB or less	Exter	nded fun		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 red	cording progr	ram*2 (Inst.on 2 GB SD card)	NX-42WR	
Frequenc	y range	20 Hz to 20 kHz	20 Hz to 8 kHz				vsis program*2 (Inst.on 512 MB SD card) Inst.on 512 MB SD card)	NX-42RT NX-42FT	_
Frequence Time weig	y weighting ghting	A, C, and Z F (Fast) and S (Slow)		Data	manager	ment software	for environmental measurement	AS-60	
Level ran		Single range (Linearity range: 113 d	B)	(Inclue	ides the o	ctave and 1/3	for environmental measurement octave data management software)	AS-60RT	
	oh display range max g of bar graph display	Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB in	crements.				for environmental measurement el data management software)	AS-60∨M	
RMS dete Sampling	ection circuit	Digital processing method 20.8 µs (Lp, Leq, LE, Lmax, Lmin, Lpeat	· sampling frequency: 48 kHz)		eform an Card 512	alysis softwa MB	IFO	CAT-WAVE SD-512M	_
	-	100 ms (LN)		SD C	Card 2 GI	В	1.0	SD-2G	
Calibratio	n	Measurement Law: electrical calibration p using internally generated signals: acoust	erformed according to IEC and JIS standards, ic calibration performed with the NC-74.		ery pack	100 ∨ to 240	V)	NC-98C BP-21	
Correction	n functions	Windscreen correction:				extension cat	bles	EC-04 (from 2 m)	_
		Compliant with IEC 61672-1 and JIS C 150 Diffuse sound field correction:	9-1 standards when the windscreen is installed.		-Pin outp parator o	out code		CC-24 CC-42C	_
			stics in order to comply with standards	Printe	er er cable			DPU-414 CC-42P	_
Delay tim	e	(ANSI S1.4) in diffuse sound field. The meter can be set to start measuri	ng a specified time (OFF, 1, 3, 5 or 10 s)	RS 2	32C seri	ial 1/O cable		CC-42R	
	se function		ed or when a user-set trigger is exceeded.		cable nd calibra	ator		— NC-74	_
Dack eras	se function	When the PAUSE key is pressed to (user selectable) 0, 1, 3 or 5 s data		All-we	eather w	vindscreen		WS-15	
Display			CD display WQVGA (400 x 240 dots)			mounting ada on windscree		WS-15006 WS-16	7
			Touch Panel) sEEBar graph update frequency: 100 ms	Soun	nd level n	neter tripod		ST-80	
Store Ma	anual Number of data	Data for measurement results are stor Internal memory: max. 1000 sets	ed manually in single address increments.			vindscreen tri ly guaranteed p		ST-81 separately), *3 NX-42WR required (sold separa	atelv)
12 72		SD Card: depends on the capacity of		*4 Pro	otection	against harm	ful dust and water splashing from		
EEEAL	ito * 2	Instantaneous values (Lp mode) and stored continuously and automatica		Before	e use, vei	rify that the ru	aterproofing bber bottom cover and the battery		
	Lp sampling cycle	100 ms, 200 ms, 1 s, Leg 1s		To mai	iintain the	water and du	ust proof rating, internal packing re	placement is required every two years (at co	ost).
	Leg sampling cycle Measurement Time							Ro Moor	
			,						
		rk of Microsoft Corporation. to change without notice.						ISO 14001 RION CO., LTD. ISO 9001 RION CO., LTD.	
Distribu	ited by:								_
JISTIDU	act by.			/				0., LTD.	
				$\boldsymbol{\sub}$				U., LI D.	
						ht	tp://www.rion.co.jp/eng	glish/	
								nji, Tokyo 185-8533, Japa	an
				lel:	+81-	42-359-	7888 Fax: +81-42-	359-7442	



United State S	CEPREI		证书编号(Certific	cate No.): 2	2HB23001488	8-0003	CEPREI		证书编号	号(Certificate No.):	2HB2300148	8-0003
Calenal set of the set of t							3.2 其它级量程 (Other R	ange)		频率(Frequency): 1	000Hz	
Control control			Theck)				标准声级	指示声级	误差	允许误差	结论	U
<ul> <li>2 har jung dia dia dia dia dia dia dia dia dia dia</li></ul>							(Standard)	(Indication)	(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)
211 <th< td=""><td>There are no factor and</td><td>defect that affect the mea</td><td>surement result accuracy</td><td>of the certific</td><td>ate.</td><td></td><td>(dB)</td><td>(dB)</td><td>(dB)</td><td>(dB)</td><td>(P/F)</td><td>(dB)</td></th<>	There are no factor and	defect that affect the mea	surement result accuracy	of the certific	ate.		(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
(A P B S S)(A L B S)(A L B S)(A L B S)(A L B S)(B O S)(Microphone SY)(Prompilier Syne)(Prompilier Syne				dell also ere		NOTI-		129.9	-0.1	±0.8	Р	0.3
Microphase SN       (Promybine Type)       (P			*/r=1= 00 314			JUHZ		128.9	-0.1	±0.8	Р	0.3
Price       Price <th< td=""><td></td><td></td><td></td><td></td><td></td><td>3.)</td><td></td><td></td><td></td><td></td><td>Р</td><td></td></th<>						3.)					Р	
Pát/dia         Pát/dia <t< td=""><td></td><td></td><td></td><td>rype) (r</td><td></td><td>,</td><td></td><td></td><td></td><td></td><td>Р</td><td></td></t<>				rype) (r		,					Р	
phetagesfieldUPUPUP(Callener Type)(AB) <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>/</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Р</td> <td></td>	· · · · · · · · · · · · · · · · · · ·		/								Р	
(Lifeneror Strep) (Lifeneror Strep)(Here Calleration) (Lifeneror Strep)(Here Calleration)(Here Callerati	<b>古</b> 校准器型号	标准声压级	校准前示值	校准	后示值	U					Р	
Control       Contro       Control       Control											P	
426       910       9.3       9.3       9.2       0.0       0.00       0	(- manual sylpe)										P	
3 複製性 Level Linear(*)       19 考異量質 (Ederence Range)       近年(*)       10 * 第 (*)       10 * 1 <td< td=""><td>4226</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>P</td><td></td></td<>	4226										P	
3 Autor3 Autor1 # Autor <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>P</td><td></td></th<>											P	
1) 1 stratumentHETProducty: SUDIL-HETProducty: SUDI	3 级线性 (Level Linearity)										P	
Kape de de de de de de de de de de de de de	3.1 参考级量程 (Reference F	Range)	频率(Fre	equency): 800	00Hz						p	
(Mader)(Hardin)(Hardin)(Parl)	标准声级	指示声级	误差 疗	允许误差	结论	U					P	
(dB)(d	(Standard)	(Indication)	(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)	40.0				Р	
1300       129.8       -0.2       -0.6       P       0.3         129.0       128.8       -0.2       -0.08       P       0.3         128.0       127.8       -0.2       -0.08       P       0.3         128.0       127.8       -0.2       -0.08       P       0.3         127.0       126.8       -0.2       +0.8       P       0.3         126.0       125.9       -0.1       +0.8       P       0.3         126.0       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       10.0       +0.8       P       0.3         90.0       90.0       +0.1       +0.8       P       0.3         90.0       40.0       +0.9       +0.3       -0.3       -0.4       +0.8 </td <td>(dB)</td> <td>(dB)</td> <td>(dB)</td> <td>(dB)</td> <td>(P/F)</td> <td>(dB)</td> <td>35.0</td> <td></td> <td></td> <td></td> <td>Р</td> <td></td>	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)	35.0				Р	
1280       127,8       -0.2       +0.8       P       0.3         1270       126,8       -0.2       +0.8       P       0.3         1260       125,9       -0.1       +0.8       P       0.3         1250       124,9       -0.1       +0.8       P       0.3         1250       124,9       -0.1       +0.8       P       0.3         1200       119,9       -0.1       +0.8       P       0.3         1200       119,9       -0.1       +0.8       P       0.3         1100       10.0       0.0       +0.8       P       0.3         1000       0.0       +0.8       P       0.3         3000       90.0       -0.1       +0.8       P       0.3         3000       90.0       -0.0       +0.8       P       0.3         3000       90.0       -0.1       +0.8       P       0.3         3000       309       -0.1       +0.8       P       0.3         3000       39.9       -0.1       +0.8       P       0.3         3000       39.9       -0.1       +0.8       P       0.3         3100 </td <td>130.0</td> <td>129.8</td> <td></td> <td>±0.8</td> <td>Р</td> <td></td> <td>34.0</td> <td>33.9</td> <td>-0.1</td> <td>±0.8</td> <td>Р</td> <td></td>	130.0	129.8		±0.8	Р		34.0	33.9	-0.1	±0.8	Р	
1270       126.8       0.2       ±0.8       P       0.3         1260       125.9       0.1       ±0.8       P       0.3         1250       124.9       0.1       ±0.8       P       0.3         1200       119.9       0.1       ±0.8       P       0.3         1100       100       0.0       ±0.8       P       0.3         1000       100.0       0.0       ±0.8       P       0.3         1000       100.0       0.0       ±0.8       P       0.3         1000       100.0       0.0       ±0.8       P       0.3         1000       3.4.8       0.2       ±0.8       P       0.3         1000	129.0						33.0	32.9	-0.1	±0.8	Р	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       10.0       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         100.0       10.8       P       0.3       0.3         130.0       33.8       -0.2       ±0.8       P       0.3         130.0       30.8       -0.2       ±0.8       P       0.3         130.0       30.8       -0.2       ±0.8       P       0					-		32.0	31.9	-0.1	±0.8	Р	0.3
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       ±0.8       P       0.3         100.0       100.0       0.0       ±0.8       P       0.3         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       ±0.8       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         31.0       30.8								30.9	-0.1	±0.8	Р	0.3
12.00       12.9       0.1       4.0.8       P       0.3         110.0       100.0       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         80.0       79.9       0.1       40.8       P       0.3         60.0       60.0       10.0       40.8       P       0.3         60.0       60.0       10.0       40.8       P       0.3         50.0       49.9       -0.1       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         32.0       31.8       -0.2       40.8       P       0.3					· ·		30.0	29.9	-0.1	±0.8	Р	0.3
110.0       110.0       0.0       ±0.8       P       0.3         110.0       100.0       0.0       ±0.8       P       0.3         90.0       90.0       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         60.0       60.0       0.0       ±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         34.0       33.8       -0.2       ±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												
International       International<					10 S.							
No.       No.       No.       No.       No.       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       60.0       0.0       ±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					1							
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         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					-					(D		
And       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         60.0       39.9       -0.1       ±0.8       P       0.3         35.0       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												
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         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       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					Р							
35.034.8-0.2±0.8P0.334.033.8-0.2±0.8P0.333.032.9-0.1±0.8P0.332.031.8-0.2±0.8P0.331.030.8-0.2±0.8P0.3		39.9		±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		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	0.3						
	32.0	31.8	-0.2	$\pm 0.8$	Р							
30.0 29.8 -0.2 ±0.8 P 0.3	31.0	30.8	-0.2	$\pm 0.8$	Р							
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(Certificate No.): 2HB23001488-0003							
5 C计权特性(C-Wei										
频率	实测值	理论值	误差	允许误差	结论	U				
(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)				
(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)				
20 25	-6.6 -4.7	-6.2	-0.4	±2.0	Р	0.5				
25 31.5	-4.7	-4.4 -3.0	-0.3 0.0	+2.0 ~ -1.5	P	0.5				
40	-3.0	-3.0	0.0	±1.5 ±1.0	P P	0.5				
50	-2.0	-2.0	0.0	±1.0 ±1.0	P P	0.5 0.5				
63	-0.8	-0.8	0.0	±1.0	P	0.5				
80	-0.4	-0.5	0.1	±1.0	P	0.5				
100	-0.2	-0.3	0.1	±1.0	P	0.5				
125	-0.1	-0.2	0.1	±1.0	P	0.5				
160	0.0	-0.1	0.1	±1.0	р	0.5				
200	0.0	0.0	0.0	±1.0	Р	0.5				
250	0.0	0.0	0.0	±1.0	Р	0.5				
315	0.0	0.0	0.0	±1.0	Р	0.4				
400	0.0	0.0	0.0	±1.0	Р	0.4				
500	0.0	0.0	0.0	±1.0	Р	0.4				
630	0.0	0.0	0.0	±1.0	Р	0.4				
800	0.0	0.0	0.0	±1.0	Р	0.4				
1000(Ref.)	0.0	0.0	0.0	±0.7	Р	0.4				
1250	-0.1	0.0	-0.1	±1.0	Р	0.6				
1600	-0.2	-0.1	-0.1	±1.0	Р	0.6				
2000	-0.3	-0.2	-0.1	±1.0	Р	0.6				
2500	-0.5	-0.3	-0.2	±1.0	Р	0.6				
3150	-0.8	-0.5	-0.3	±1.0	Р	0.6				
4000	-1.1	-0.8	-0.3	±1.0	Р	0.6				
5000	-1.5	-1.3	-0.2	±1.5	Р	0.6				
6300	-2.1	-2.0	-0.1	+1.5 ~ -2.0	Р	0.6				
8000	-3.0	-3.0	0.0	+1.5 ~ -2.5	Р	0.6				
10000	-4.3	-4.4	0.1	+2.0 ~ -3.0	Р	0.6				
12500	-6.2	-6.2	0.0	+2.0 ~ -5.0	Р	1.0				
16000	-10.4	-8.5	-1.9	+2.5 ~ -16.0	Р	1.0				
20000	-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 声段准器检定规程: Sound Pressure Level: 94dB, 104dB、114dB, 124dB(63Hz~8kHz): 94dB 、104dB、114dB(31:5Hz~16Hz): Frequency: 31:5Hz~16Hz): Harmonic Distortion: 0.1%~10%。(20Hz~</li> </ol>	() (Prescribed SPL) (Measured SPL) (Absolute value of SPL) (Limit) (Pass/Fail) (k=2)
<ul> <li>109405, 11405(21.5)/2 * 106/L2); Frequency: 51.5)/2 * 106/L2; Harmonic Distribution: 0.1% 105/m (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, 超出范围的內容未被认可,其指型/论证所依据的合格评定活动不在认可 范围内, (Pease see the attachment of certificate No. L1334 # CNAS website for details, beyond which is not accredited, the conformity assessment activities on which the result/sconelusions are based are outside the scope of accreditation.)</li> </ul>	(dB)       (dB)       (dB)       (dB)         94       93.86 $0.14$ $\leq 0.25$ P $0.10$
<ol> <li>本次校准所使用的主要测量标准(The main measurement standards used during the calibration):</li> <li>名称</li></ol>	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 GFJGJL1004230400378/2024-04-02/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)
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	(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)         MHz         MHz           06540)	4 总失真+噪声 (Distortion and noise)
093) 304所 5. 校准地点(The calibration place): 广州市增城区朱村街朱村大道西78号9栋110室	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","P"、"不合格"代表"测量结果不在允许范围内","PNA"代表"不适用或技术指标暂时无法确认等"。本证书报告的结论仅供参考,使用人员应结合实际测量结果不在定详值的要求。在现代表型、结果测量不确定度的影响等。 "P" and "Pass" in this certificate stand for "Low LimitSche measured value <first "fail"="" "p"="" "the="" <="" and="" for="" limit",="" measured="" p="" stand="" value=""></first>	<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	

	w Meter (TSI TA440)	Calibration Certificate of Air Flow Meter
		Cal Lab Limited 校正實驗室有限公司 Room 2103, Technology Plaza, 29-35 Sha Tsui Road,
THERMAL ANEMOMETERS MODELS TA410, TA430 AND TA440		Tsuen Wan, NT, Hong Kong Tel: +852 25680106 Email: info@callab.com.hk
		CALIBRATION Fax: +852 30116194 Website: www.callab.com.hk "Muluin" Certifiate #3815.01 Calibration Certificate No.: CC0242312
Velocity           Range (TA410)         0 to 20 m/s (0 to 4,000 ft/min)           Range (TA430, TA440)         0 to 30 m/s (0 to 6,000 ft/min)	Time Constant (TA430, TA440) User selectable	Information provided by customer Customer: Castco Testing Centre Limited Address: 33, On Kui Street, Fanling, N.T.
Accuracy (TA430, TA440) <sup>162</sup> ±5% of reading or ±0.025 m/s (±5 ft/min), whichever is greater Accuracy (TA430, TA440) <sup>162</sup> ±3% of reading or ±0.015 m/s	<b>External Meter Dimensions</b> 8.4 cm x 17.8 cm x 4.4 cm (3.3 in. x 7.0 in. x 1.8 in.)	Equipment identification provided by customer
(±3 ft/min), whichever is greater Resolution 0.01 m/s (1 ft/min)	Meter Weight with Batteries 0.27 kg (0.6 lbs.)	Equipment Description         Manufacturer         Model No.         Serial No.         Assigned equipment N           Air Velocity Monitor         TSI         AIRFLOW TA440         TA4401232005         AAST-FLOW-02
Duct Size (TA430, TA440) Dimensions 1 to 635 cm in increments of 0.1 cm (1 to 250 inches in increments of 0.1 in.)	Meter Probe Dimensions           Probe Length         101.6 cm (40 in.)           Probe Diameter of Tip         7.0 mm (0.28 in.)	Certificate Information           Date of Receipt:         15 December 2023         Calibration Condition:         21.3°C, 56%RH, 1014hPa           Date of Calibration:         18 December 2023         Adjustment:         N/A
Volumetric Flow Rate (TA430, TA440)	Probe Diameter of Base 13.0 mm (0.51 in.)	Due Date of Calibration: N/A Appearance: Good
Range Actual range is a function of velocity, and duct size	Articulating Probe Dimensions Articulating Section 19.7 cm (7.8 in.) Length	Calibration Procedure: SOP-112 Remark: N/A
Temperature           Range (TA410, TA430)         -18 to 93°C (0 to 200°F)	Diameter of 9.5 mm (0.38 in.) Articulating Knuckle	Reference Equipment Identification         Model         Serial No.         Expiration Date           Equipment Description         Model         Serial No.         Expiration Date           Hot Wire Amenometer         9535         T95351316004         11 August 2024
Range (TA440)         -10 to 60°C (14 to 140°F)           Accuracy <sup>3</sup> ±0.3°C (±0.5°F)           Resolution         0.1°C (0.1°F)	Power Requirements Four AA-size batteries or AC adapter	Result of Calibration
Relative Humidity (TA440 only)	TA430. TA440.	Air Velocity
Range 5 to 95% RH	TA410 TA430, TA440, TA430-A TA440-A Velocity range	Reference         Measured         Error (m/s)         Uncertainty (%)         Technical         Technical           Reading (m/s)         Reading (m/s)         Reading (m/s)         Error (m/s)         Uncertainty (%)         Requirement         Reference Door
Accuracy <sup>4</sup> ±3% RH Resolution 0.1% RH	Velocity range 0 to 20.00 m/s + (0 to 4000 ft/min)	0.99 0.99 0.00 3.6 ± 5 % Mfr's Spec.
	Velocity range	2.02 2.03 0.01 3.6 ±5% Mfr's Spec.
Wet Bulb Temperature (TA440 only)	0 to 30.00 m/s + + + (0 to 6000 ft/min)	5.01 4.98 -0.03 3.6 ± 5 % Mfr's Spec.
Range         5 to 60°C (40 to 140°F)           Resolution         0.1°C (0.1°F)	Temperature + + +	7.96 8.07 0.11 3.6 ± 5 % Mfr's Spec.
	Flow + +	CTA
Dew Point (TA440 only)		all all all all all all all a
Range         -15 to 49°C (5 to 120°F)           Resolution         0.1°C (0.1°F)	dew point	JALE JALE JALE JALE JALE JALE JALE
	Probe Straight Straight or -A articulated articulated	
Instrument Temperature Range	Variable time + +	CALIBRATION
Operating (Electronics)         5 to 45°C (40 to 113°F)           Model TA410, TA430         -18 to 93°C (0 to 200°F)	Manual	UALIDRATION
Operating (Probe)	data logging	
Model TA440 -10 to 60°C (14 to 140°F) Operating (Probe)	data logging +	When JAke JAke JAke JAke JAke JAke JAke
Storage -20 to 60°C (-4 to 140°F)	Statistics + +	
Data Storage Capabilities (TA430, TA440)	Review data + +	
Range 12,700+ samples and 100 test IDs	LogDat2	
	downloading + + + software	Note1: The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in measurement" and give an internal estimated to have
Logging Interval (TA430, TA440) 1 second to 1 hour	Free Certificate + + + +	of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated. Note2: The standard (s) and instrument used in the calibration are traceable to national or international recognized standard and are calibrated on a schedule to mainta
	vi Guioration	accuracy and good condition.
Specifications subject to change without notice.	<sup>a</sup> Temperature compensated over an air temperature range of 5 to 65°C (40 to 150°F). <sup>a</sup> The accuracy statement begins at 30 ft/min through 4000 ft/min (0.15 m/s through 20 m/s).	Note3: The result reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long term stability instrument.
TSI and the TSI logo are registered trademarks, and Airflow. the Airflow logo and LogDat2 are trademarks of TSI Incorporated.	<sup>a</sup> The accuracy statement begins at 30 ft/min through 4000 ft/min (0.15 m/s through 20 m/s) for the Model TA410, and 30 ft/min through 6,000 ft/min (0.15 m/s through 30 m/s) for Models TA430 and TA440.	Note4: The result shows in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration item as received.
	<sup>3</sup> Accuracy with instrument case at 25°C (77°F), add uncertainty of 0.08°C/°C (0.05°F/°F)	Calibrated By: Checked and Approved By: Company Chop:
	for change in instrument temperature. * Accuracy with hope at 25% CT/ST/B Add uncertainty of 0.2% RH/*C (0.1% RH/*E) for change in probe temperature. Includes 1% hysteresis.	
Airflow Instruments, TSI Instruments Ltd. Visit our website at www.airflowinstruments.co.uk for more informat	tion.	Wing Cheng Warren Yeung Certificate Issue Date: 19 December 2023
	050	*** End of Certificate ***
K         Tel: +44 149 4 459200         Germany         Tel: +49 241 5230           rance         Tel: +33 491 11 87 64         Fermine         Tel: +49 241 5230		

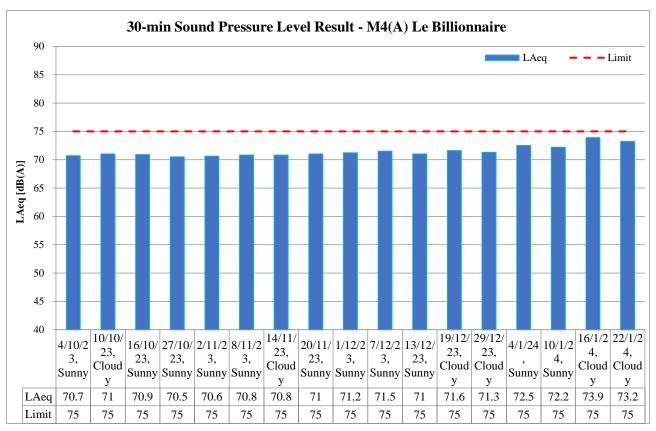
Appendix K – Noise monitoring results and graphical presentation

## M4(A) – Le Billionnaire

	Temp	Wind	Weathe			Measured	Noise Lev	el at M4(A	A), $dB(A)$		
Date	(°C)	Speed m/s	r		Гir	ne	Baseline	L <sub>Aeq</sub>	L <sub>A10</sub>	L <sub>A90</sub>	Limit
04/01/2024	19.7	1.7	Sunny	13:10	-	13:40	69.5	72.5	73.8	71.0	75
10/01/2024	23.2	1.3	Sunny	9:15	-	9:45	69.5	72.2	73.5	70.5	75
16/01/2024	18.5	2.3	Cloudy	9:16	-	9:46	69.5	73.9	75.1	72.4	75
22/01/2024	14.5	3.3	Cloudy	13:20	-	13:50	69.5	73.2	74.9	71.2	75
					]	Maximum		73.9			
						Minimum		72.2			
						Average		73.0			

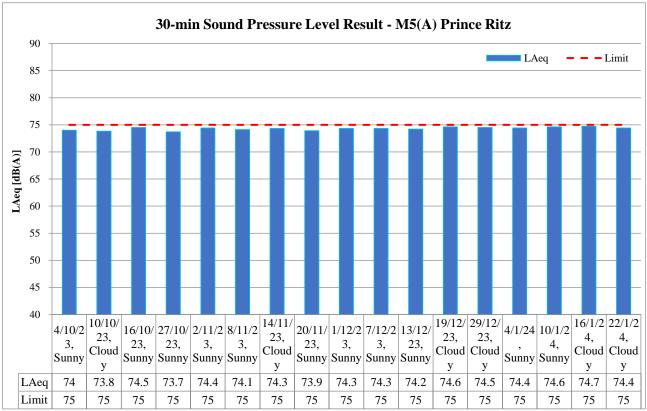
## M5(A) – Prince Ritz

_	Temp	Wind	Weathe			Measured	Noise Lev	el at M5(A	A), $dB(A)$	-	
Date	(°C)	Speed m/s	r		Гir	ne	Baseline	LAeq	L <sub>A10</sub>	L <sub>A90</sub>	Limit
04/01/2024	19.7	1.7	Sunny	14:30	-	15:00	72.5	74.4	76.0	72.3	75
10/01/2024	23.2	2.0	Sunny	10:20	-	10:50	72.5	74.6	76.3	72.4	75
16/01/2024	18.5	3.8	Cloudy	10:10 - 10:40		72.5	74.7	76.2	73.0	75	
22/01/2024	14.5	2.2	Cloudy	14:40	-	15:10	72.5	74.4	76.3	72.5	75
					]	Maximum	l	74.7			
						Minimum		74.4			
						Average		74.5			



## 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	Oct	Nov	Dec	Jan
	2023	2023	2023	2024
Construction works for DCS	$\checkmark$	✓	✓	
Construction Works for DCS 2A5B and 2A10				✓
Construction of Retaining Wall Type 1 for S14	$\checkmark$	✓	✓	✓
Construction of Pile Cap for S14	$\checkmark$	✓	✓	✓
Construction works for SMH404 and SMH505	$\checkmark$	✓	✓	$\checkmark$
Construction of Permanent Shaft Structure of SB-01		✓	✓	$\checkmark$
Demolition of bearing wall of S14	$\checkmark$	✓		
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		✓	✓	$\checkmark$
Erection of falseworks and working platform for decking of Elevated Walkway	✓	<b>√</b>	1	
LW-02	•	•	v	v
RTBM dismantle	$\checkmark$			
RC construction for decking of Elevated Walkway LW-02	$\checkmark$	$\checkmark$	✓	$\checkmark$
RC construction for Subway KS10 Lift and Staircase				
RC construction works for lift and staircase of LW-02	$\checkmark$	✓	✓	✓
Renovation works for Subway KS10 Lift and Staircase	$\checkmark$	✓	✓	✓
Renovation works for existing subways KS9, KS32 and KS10	$\checkmark$	✓	✓	
Renovation works for existing subways KS10				✓
Road and Drain Construction works for Road L16, Commercial Street and	✓	1	1	~
Road D1	•	<b>v</b>		v
Road and drain construction works for Olympic Avenue	$\checkmark$	$\checkmark$	$\checkmark$	✓

	Reporting Period					
Factors might affect the monitoring results	Oct	Nov	Dec	Jan		
	2023	2023	2023	2024		
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~		

## Appendix L – Event and Action Plan for noise

<b>F</b> 4				
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		Act	tion	
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

	А	ctual Quantitie	es of Inert C&D	Materials Ger	nerated Monthl	y	Actual Quantities of C&D Wastes Generated Mont				onthly
Month	Total Quantity Generated	Borken Concrete (4)	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 '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m <sup>3</sup> ]
JAN	0.0730	0.0000	0.0000	0.0000	0.0730	0.0000	0.0000	0.0000	0.0000	0.0000	0.0015
FEB											
MAR											
APR											
MAY											
JUNE											
SUB-	0.0730	0.0000	0.0000	0.0000	0.0730	0.0000	0.0000	0.0000	0.0000	0.0000	0.0015
TOTAL	0.0750	0.0000	0.0000	0.0000	0.0750	0.0000	0.0000	0.0000	0.0000	0.0000	0.0015
JULY											
AUG											
SEPT											
OCT											
NOV											
DEC											
TOTAL	0.0730	0.0000	0.0000	0.0000	0.0730	0.0000	0.0000	0.0000	0.0000	0.0000	0.0015

## MONTHLY SUMMARY WASTE FLOW TABLE FOR \_\_\_\_\_ 2024 (YEAR)

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

EIA Ref	Recommended Mitigation Measures	Implementation			
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 sodiment traps and adequate maintenance of drainage systems to prevent flooding and overflow	Ŋ			
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.	N			
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.				
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.	N			
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.				
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.	Ŋ			
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				
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.	Z			
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	V			
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.	Ŋ			
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.	N			
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.				
S8.8	Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.		$\checkmark$		
S8.8	Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers		$\checkmark$		
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.	N			
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.				
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.	N			
S8.8	Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	N			
S8.8	Supervisory staff should be assigned to station on site to closely supervise and monitor the works		$\checkmark$		
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.		V		
	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 strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.	V			
	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	Ŋ			
	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. Separation of chemical wastes for special handling and appropriate treatment	$\mathbf{\Sigma}$			
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 2)Training of site personnel in proper waste management and chemical waste handling		V		
	procedures 3)Provision of sufficient waste disposal points and regular collection for disposal 4)Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 5)A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites)				

EIA Ref	Recommended Mitigation Measures	In	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	<ul> <li>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&amp;D material. The mitigation measures include:</li> <li>1) Where it is unavoidable to have transient stockpiles of C&amp;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</li> <li>2) Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric</li> <li>3) Skip hoist for material transport should be totally enclosed by impervious sheeting</li> <li>4) Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site</li> <li>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</li> <li>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</li> <li>7) All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation size to maintain the dusty materials wet</li> </ul>				
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				
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.				
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.		$\mathbf{\nabla}$		

EIA Ref	Recommended Mitigation Measures	Implementation			า
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: January 2024**

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