#### 23-4-2023

By hand

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

Dear Mr. TANG,

#### Contract No. EDO 2/2020 Environmental Monitoring Works for Contract No. ED/2018/05 – Kai Tak Development – Stage 5B Infrastructure Works at the Former North Apron Area <u>Submission of Quarterly EM&A Report for November 2022 to January 2023 (Version 1.0)</u>

I refer to the Environment Permit (EP) No. EP-337/2009 and EP-445/2013/A for the captioned project.

Pursuant to Condition 3.3 of the EP-337/2009 and Condition of the 3.2 of the EP-445/2013/A, please find enclosed four hard copies and one electronic copy of Quarterly EM&A Report for November 2022 to January 2023 (Version 1.0), 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 2618 2166 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: 22 April 2023 Your ref: Our ref: PL-202304025

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

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

Dear Ms. Law,

#### Re: Agreement No. EDO 6/2019 Independent Environmental Checker for Contract No. ED/2018/05 Kai Tak Development – Stage 5B Infrastructure Works at the Former North Apron Area Verification of Quarterly EM&A Summary Report (November 2022 – January 2023)

Reference is made to the Quarterly EM&A Summary Report (November 2022 to January 2023) (Version 1.0) submitted by the Environmental Team on 19 April 2023.

Please be informed that we have no adverse comment on the captioned submission.

Thank you for your attention.

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

Kevin Li Independent Environmental Checker

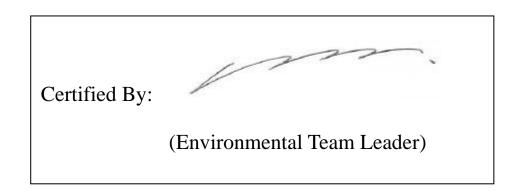
c.c. CEDD Ka Shing Attn.: Mr. Albert Tse Attn.: Mr. Chan Pang (ETL) By email By email

# Quarterly Environmental Monitoring and Audit Summary Report (November 2022 – January 2023) for Contract No. ED/2018/05 –

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

Contract No.: EDO 2/2020

(Version 1.1)



### **Table of Content**

## Page

EXECU'	TIVE SUMMARY1
	Breaches of Action and Limit Levels1
	Complaint log1
	Notifications of Summons and Successful Prosecutions1
	Report changes 1
	Major construction works in the reporting period2
1.	INTRODUCTION
	Project Background
	Project Organization
	Works Area and Construction Programme
	Construction works undertaken during reporting period
2.	SUMMARY OF EM&A REQUIREMENTS AND MONITORING RESULTS 6
	Monitoring Requirements
	Air Quality Monitoring Locations
	Air Quality Monitoring Parameters, Frequency and Duration
	Air Quality Monitoring Equipment7
	Air Quality Monitoring Methodology and QA/QC Procedure7
	Wind Data Monitoring 10
	Impact Air Quality Action and Limit Levels 10
	Impact Air Quality Monitoring results
	Noise Monitoring Locations
	Noise Monitoring Parameters, Frequency and Duration
	Noise Monitoring Equipment
	Monitoring Methodology and QA/QC Procedure
	Maintenance and Calibration
	Impact Noise Action and Limit Levels

	Impact Noise Monitoring results	14
	Comparison of EM&A Results with EIA Predictions	15
3.	LANDSCAPE AND VISUAL MONITORING	
4.	SOLID AND LIQUID WASTE MANAGEMENT	
5.	ENVIRONMENTAL SITE INSPECTION AND AUDIT	19
	Site Inspection	19
	Implementation Status of Environmental Mitigation Measures	21
6.	SUMMARY OF NON-COMPLIANCE STATUS	
	Breaches of Action and Limit Levels	
	Environmental Complaint and Non-compliance	
	Notifications of summons and successful prosecutions	23
7.	COMMENTS, RECOMMENDATIONS AND CONCLUSIONS	24
	Comments	24
	Recommendations	24
	Conclusions	

#### List of Tables

- Table I
   Major construction activities in the reporting period
- Table 1.1
   Contact information of key personnel
- Table 1.2
   Major construction activities in the reporting period
- Table 2.1
   Locations of air quality monitoring stations
- Table 2.2
   Air quality monitoring parameters, frequency and duration
- Table 2.3
   Air Quality Monitoring Equipment
- Table 2.4 Action and Limit Levels of 24-hour average TSP for construction dust monitoring
- Table 2.5
   Action and Limit Levels of 1-hour average TSP for construction dust monitoring
- Table 2.6
   Summary of 24-hour average TSP monitoring data during the reporting period
- Table 2.7 Summary of 1-hour average TSP monitoring data during the reporting period
- Table 2.8
   Locations of noise monitoring stations
- Table 2.9
   Noise monitoring parameters, frequency and duration

- Table 2.10
   Noise Monitoring Equipment
- Table 2.11
   Baseline noise level and Action and Limit Levels for construction noise monitoring
- Table 2.12 Summary of noise monitoring data during the reporting period
- Table 2.13 Comparison of 24-hour average TSP monitoring data with EIA predictions
- Table 2.14 Comparison of 1-hour average TSP monitoring data with EIA predictions
- Table 2.15 Comparison of noise monitoring data with EIA predictions
- Table 5.1
   Summary of site inspections observations during the reporting period
- Table 6.1Non-compliance record in the reporting period
- Table 6.2Summary of complaints in the reporting period
- Table 6.3 Summary of summons and successful prosecutions in the reporting period
- Table 7.1
   Summary of recommendations / reminders made in site inspections during the reporting period

#### 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 Weather information

Appendix D – Monitoring data and graphical plots

- Appendix E Event and Action Plans for Construction Dust Monitoring, Construction Noise
- and Landscape and Visual Impact
- Appendix F Waste Flow Table
- Appendix G Environmental Mitigation Implementation Schedule (EMIS)

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

## **EXECUTIVE SUMMARY**

 This is the 8<sup>th</sup> Quarterly Environmental Monitoring & Audit (EM&A) Summary Report which summarises the findings of the EM&A Programme during the reporting period from 1 November 2022 to 31 January 2023 (the "reporting period").

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

- 2. 1-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
- 3. 24-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
- 4. Construction noise monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.

#### **Complaint log**

5. No complaint was received in the reporting period.

#### Notifications of Summons and Successful Prosecutions

6. No notification of summons and successful prosecutions was received in the reporting period.

#### **Report changes**

7. There was no reporting change in the reporting period.

#### Major construction works in the reporting period

8. Major construction activities undertake during the reporting period included:

	ovember 2022		December 2022		January 2023
- Erect	tion of falseworks and	-	Erection of falseworks and	-	Erection of falseworks and
work	ting platform for		working platform for		working platform for
	ing of Elevated		decking of Elevated		decking of Elevated
	way LW-02		Walkway LW-02		Walkway LW-02
	pile construction	-	Post-piling tests and proof	-	ELS and excavation works
work	s for LW-02 lift and		drilling for LW02 lift and		for lift and staircase of
stairc	case		staircase		LW-02
- Post-	-piling tests and proof	-	ELS and excavation works	-	ELS and excavation works
drilli	ng for LW02 lift and		at Sa Po Road		at Sa Po Road
stairc	case	-	RC construction at	-	RC construction at
- Grou	ind improvement		launching shaft for		launching shaft for
work	ts at Sa Po Road		subway SB-01		subway SB-01
- RC c	construction at	-	Construction works for	-	Construction of antry
laund	ching shaft for		Pedestrian Street No. 2		footing at launching shaft
subw	ay SB-01	-	Construction works for		for subway SB-01
	struction works for		Road L16	-	Construction works for
Pede	strian Street No. 2	-	Construction works for		Road L16
	struction works for		DCS	-	Construction works for
	1 L16	-	Construction works for		DCS
	struction works for		Olympic Avenue	-	Construction works for
DCS		-	RC construction for		Olympic Avenue
	struction works for		Subway KS10 Lift and	-	RC construction for
	npic Avenue		Staircase		Subway KS10 Lift and
	construction for	-	Renovation works for		Staircase
	vay KS10 Lift and		existing subways KS9,	-	Renovation works for
Stair			KS32 and KS10		existing subways KS9,
	ovation works for	-	Pre-bored socket H-pile		KS32 and KS10
	ing subways KS9,		construction works for	-	Pre-bored socket H-pile
	2 and KS10		Slip Road S14		construction works for
	oored socket H-pile	-	Construction works for		Slip Road S14
	truction works for		additional run-in at Road	-	Construction works for
-	Road S14		L7		additional run-in at Road
	struction works for	-	Dismantling of gantry		L7
	tional run-in at Road		crane at casting yard	-	Dismantling of gantry
L7					crane at casting yard

 Table I
 Major construction activities in the reporting period

## **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.
- 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 emergency team and with respect to the EM&A programme is shown in Appendix A. Information of key personnel contact names and telephone numbers are summarized in Table 1.1.

Party	Role	Contact Person	Position	Phone No.	E-mail
Civil Engineering and Development Department (CEDD)	Project Proponent	Mr. Lam Shing Tim	Permit Holder	3842 7090	st_lam@cedd.gov.hk
AECOM Asia Co. Ltd. (AECOM)	Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual)	Mr. Vincent Lee	Supervisor's Delegate	2798 0771	sre2@ktd-stage5.com
Acuity Sustainability Consulting Limited (Acuity)	Independent Environmental Checker (IEC)	Mr. Kevin Li	IEC	9779 2247	kli@acuityhk.com
Ka Shing Management Consultant Limited (Ka Shing)	Environmental Team (ET)	Mr. Pang Chan	ET Leader	6082 2973	stage5b@ka-shing.net
Build King – STEC Joint Venture (BK- STEC)	Contractor	Mr. Rex Lau	Contractor's Representative	6282 5154	rex.lau@buildking.hk

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 period

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

	November 2022		December 2022		January 2023
-	Erection of falseworks and	-	Erection of falseworks and	-	Erection of falseworks and
	working platform for		working platform for		working platform for
	decking of Elevated		decking of Elevated		decking of Elevated
	Walkway LW-02		Walkway LW-02		Walkway LW-02
-	Mini pile construction	-	Post-piling tests and proof	-	ELS and excavation works
	works for LW-02 lift and		drilling for LW02 lift and		for lift and staircase of
	staircase		staircase		LW-02
-	Post-piling tests and proof	-	ELS and excavation works	-	ELS and excavation works
	drilling for LW02 lift and		at Sa Po Road		at Sa Po Road
	staircase	-	RC construction at	-	RC construction at
-	Ground improvement		launching shaft for		launching shaft for
	works at Sa Po Road		subway SB-01		subway SB-01
-	RC construction at	-	Construction works for	-	Construction of antry
	launching shaft for		Pedestrian Street No. 2		footing at launching shaft
	subway SB-01	-	Construction works for		for subway SB-01
-	Construction works for		Road L16	-	Construction works for
	Pedestrian Street No. 2	-	Construction works for		Road L16
-	Construction works for		DCS	-	Construction works for
	Road L16	-	Construction works for		DCS
-	Construction works for		Olympic Avenue	-	Construction works for
	DCS	-	RC construction for		Olympic Avenue
-	Construction works for		Subway KS10 Lift and	-	RC construction for
	Olympic Avenue		Staircase		Subway KS10 Lift and
-	RC construction for	-	Renovation works for		Staircase
	Subway KS10 Lift and		existing subways KS9,	-	Renovation works for
	Staircase		KS32 and KS10		existing subways KS9,
-	Renovation works for	-	Pre-bored socket H-pile		KS32 and KS10
	existing subways KS9,		construction works for	-	Pre-bored socket H-pile
	KS32 and KS10		Slip Road S14		construction works for
-	Pre-bored socket H-pile	-	Construction works for		Slip Road S14
	construction works for		additional run-in at Road	-	Construction works for
	Slip Road S14		L7		additional run-in at Road
-	Construction works for	-	Dismantling of gantry		L7
	additional run-in at Road		crane at casting yard	-	Dismantling of gantry
	L7				crane at casting yard

Table 1.2 Major construction activities in the reporting period

## 2. SUMMARY OF EM&A REQUIREMENTS AND MONITORING RESULTS

#### **Monitoring Requirements**

2.1 In accordance with EM&A Manual (EIA Register Nos. AEIAR-130/2009), impact air quality monitoring and impact noise monitoring shall be carried out during the construction phase of the Project.

#### **<u>Air Quality Monitoring Locations</u>**

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 period. 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

#### Air Quality 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 T7	- 1-hour average TSP	- 1 hour	- Three times every 6 days

Table 2.2 Air quality monitoring parameters, frequency and duration

#### Air Quality Monitoring Equipment

2.4 24-hour average TSP and 1-hour average TSP levels were measured for impact monitoring. 24-hour average TSP levels were measured by the High Volume Samplers (HVS) and 1-hour average TSP levels were measured by direct reading method to indicate short-term impacts. Wind data monitoring equipment was set up at conspicuous locations for logging wind speed and wind direction near to the dust monitoring locations. Table 2.3 summarizes the equipment to be used in the air quality monitoring.

Equipment	Model	Quantity	Calibration Interval
HVS Sampler	TE-5170 X c/w of TSP sampling inlet	2	2 months
HVS Calibrator	TISCH TE-5025A	1	1 year
1-hour TSP Dust Meter	TSI Model AM510 SidePak Personal Aerosol Monitor	3	1 year
Wind Logger and Wind Station	Davis Vantage Pro2 Weather Station	1	6 months

#### Table 2.3 Air Quality Monitoring Equipment

2.5 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).

#### Air Quality Monitoring Methodology and QA/QC Procedure

#### 24-hour TSP Monitoring

#### Operating/Analytical Procedures

- 2.6 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.
- 2.7 Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between  $1.1 \text{ m}^3/\text{min.}$  and  $1.7 \text{ m}^3/\text{min.}$ ) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.8 For TSP sampling, Glass Fiber Filter Media 8" x 10" have a collection efficiency of > 99 % for particles of 0.3 μm diameter were used.
- 2.9 The power supply was checked to ensure the sampler worked properly and then placed any filter media at the designated air monitoring station.
- 2.10 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.
- 2.11 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.
- 2.12 The shelter lid was closed and secured with the aluminium strip.
- 2.13 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).
- 2.14 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

2.15 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 with at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

#### 1-hour TSP Monitoring

#### Measurement Procedures

- 2.16 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

2.17 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 by direct reading method every 12 months throughout all stages of the air quality monitoring.

#### Wind Data Monitoring

- 2.18 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 to record wind speed and wind direction.
- 2.19 Details of weather information during the monitoring period are shown in Appendix C.

#### **Impact Air Quality Action and Limit Levels**

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

Table 2.4 Action and Limit Levels of 24-hour average TSP for construction dust monitoring

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

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**

2.21 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.

	Novemb	ber 2022	Decemb	ber 2022	Januar	y 2023		
	24-hr		24-hr		24-hr			
Air	Average		Average		Average		Action	Limit
Monitoring	TSP	Range,	TSP	Range,	TSP	Range,	Level,	Level,
Station	Concentr	$\mu g/m^3$	Concentr	$\mu g/m^3$	Concentr	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$
	ation,		ation,		ation,			
	µg/m <sup>3</sup>		µg/m <sup>3</sup>		$\mu g/m^3$			
AM2(A)	48	28 - 76	64	40 - 99	54	30 - 100	175	260
AM3	57	42 - 91	81	38 - 113	65	35 – 98	172	260

Table 2.6 Summary of 24-hour average TSP monitoring data during the reporting period

Table 2.7 Summary of 1-hour average TSP monitoring data during the reporting period

	Novemb	ber 2022	Decemb	ber 2022	Januar	y 2023		
	1-hr		1-hr		1-hr			
Air	Average		Average		Average		Action	Limit
Monitoring	TSP	Range,	TSP	Range,	TSP	Range,	Level,	Level,
Station	Concentr	µg/m <sup>3</sup>	Concentr	$\mu g/m^3$	Concentr	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$
	ation,		ation,		ation,			
	$\mu g/m^3$		$\mu g/m^3$		$\mu g/m^3$			
AM2(A)	43	20 - 74	59	35 - 91	48	28 - 85	302	500
AM3	50	25 - 89	81	30 - 114	54	31 - 85	301	500

- 2.22 There was no Action and Limit Level exceedance of 24-hour average TSP and 1-hour average TSP levels recorded during the reporting period.
- 2.23 Graphical presentation and detailed monitoring results of 24-hour average TSP and 1-hour average TSP levels are shown in Appendix D.
- 2.24 The Event and Action Plan is provided in Appendix E.
- 2.25 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

#### **Noise Monitoring Locations**

2.26 Two designated monitoring stations were selected for noise monitoring programme. Impact noise monitoring was conducted at two noise monitoring stations in the reporting period. Table 2.8 describes the noise monitoring locations, which are also depicted in Figure 6.

Table 2.8 Locations of noise monitoring stations

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

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

2.27 The noise monitoring locations and monitoring frequency are listed in Table 2.9.

Table 2.9 Noise monitoring parameters, frequency and duration

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

#### **Noise Monitoring Equipment**

2.28 As referred to in the Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO), sound level meters in compliance with the IEC 61672-1 (Type 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 2.10 ssummarizes the equipment to be used in the noise monitoring.

Table 2.10 Noise Monitoring Equipment

Equipment	Model	Quantity	Calibration Interval
Sound Level Meter	RION NL52	1	1 year
Sound Level Calibrator	RION NC 74	1	1 year
Air Flowmeter	TSI TA440 Air Velocity	1	1 year

#### Monitoring Methodology and QA/QC Procedure

- 2.29 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.
- 2.30 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.
- 2.31 Turned on the sound level meter and check the battery, if too low, change new ones.
- 2.32 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.
- 2.33 Noise level was recorded.
- 2.34 Recorded any activities that may generate noise during measurement period.

#### **Maintenance and Calibration**

- 2.35 The microphone head of the sound level meter and calibrator was cleaned with a soft cloth at quarterly intervals.
- 2.36 The sound level meter and sound calibrator were calibrated annually.
- 2.37 Calibration for sound level meter was conducted immediately prior to and following each noise measurement by using sound calibrator generating a known sound pressure level at a known frequency (1,000 Hz with 94dB). Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

#### **Impact Noise Action and Limit Levels**

2.38 The Baseline Noise Levels and Action and Limit Levels for construction noise is presented in Table 2.11.

Table 2.11 Baseline noise level and Action and Limit Levels for construction noise monitoring

Time Period	Noise Monitoring Station	Baseline Noise Levels, dB (A)	Action Level	Limit Level ^
0700 – 1900 on	M4(A)	69.5	When one documented	75 dB(A)
normal weekdays	M5(A)	72.5	complaint is received.	73  ub(A)

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**

2.39 Impact noise monitoring results at the designated noise monitoring stations are summarized in Table 2.12.

November 2022 December 2022 January 2023 Measured Measured Measured Measured Measured Measured Noise Action Limit LAeq, 30-L<sub>Aeq, 30-</sub> LAeq, 30-LAeq, 30-LAeq, 30-L<sub>Aeq, 30-</sub> Monitoring Level<sup>^</sup> Level min, min, min, min, min, min, Station Average, Range, Average, Range, Average, Range, dB(A) dB(A)dB(A) dB(A)dB(A) dB(A)69.3 -69.6 -69.4 -When one M4(A)69.6 70.0 69.8 70.1 70.3 70.1 documented 75 72.2 -72.2 -72.2 complaint is dB(A)73.0 72.7 72.7 M5(A)73.3 73.7 73.6 received

Table 2.12 Summary of noise monitoring data during the reporting period

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.

- 2.40 There were no Action Level exceedance of noise monitoring and Limit Level exceedance of L<sub>Aeq</sub>, 30min recorded during the reporting period.
- 2.41 Graphical presentation and detailed monitoring results of impact noise are shown in Appendix D.
- 2.42 The Event and Action Plan is provided in Appendix E.

2.43 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

#### **Comparison of EM&A Results with EIA Predictions**

2.44 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 Nos. AEIAR-130/2009 for Kai Tak Development (The EIA Report). The EM&A data was compared with the EIA predictions as summarized in Table 2.13 to Table 2.15.

Air Monitoring Station	ASR No. in EIA report	Maximu averag	Cumulative um 24-hr ge TSP stration 2 (Mid 2013 to Late 2016), µg/m <sup>3</sup>	Measured 24-hr average TSP in Reporting Month (November 2022) µg/m <sup>3</sup>	Measured 24-hr average TSP in Reporting Month (December 2022) µg/m <sup>3</sup>	Measured 24-hr average TSP in Reporting Month (January 2023) µg/m <sup>3</sup>
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	28 – 76	40 - 99	30 - 100
AM3 - Sky Tower	A40	106^	138^	42 - 91	38 - 113	35 - 98

Table 2.13 Comparison of 24-hour average TSP monitoring data with EIA predictions

Note:

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

Air Monitoring Station	ASR No. in EIA report	Maximu averag	Cumulative m 1-hour ge TSP stration 2 (Mid 2013 to Late 2016), µg/m <sup>3</sup>	Measured 1-hr average TSP in Reporting Month (November 2022) µg/m <sup>3</sup>	Measured 1-hr average TSP in Reporting Month (December 2022) µg/m <sup>3</sup>	Measured 1-hr average TSP in Reporting Month (January 2023) µg/m <sup>3</sup>
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	20 - 74	35 - 91	28-85
AM3 - Sky Tower	A40	217^	247^	25 - 89	30 - 114	31 - 85

Table 2.14 Comparison of 1-hour average TSP monitoring data with EIA predictions

Note:

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

Table 2.15 Comparison of noise monitoring data with EIA predictions

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 (November 2022) L <sub>Aeq, 30min</sub> , dB(A)	Measured Noise Level in Reporting Month (December 2022) L <sub>Aeq, 30min,</sub> dB(A)	Measured Noise Level in Reporting Month (January 2023) L <sub>Aeq, 30min</sub> , dB(A)
M4(A) – Le Billionnaire	NA	NA	69.3 – 70.1	69.6 - 70.3	69.4 - 70.1
M5(A) – Prince Ritz	NA	NA	72.2 - 73.7	72.2 - 73.6	72.2 - 73.3

- 2.45 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 2.46 No prediction in the EIA Report for 24-hour TSP monitoring results at AM2(A).
- 2.47 24-hour TSP monitoring results in December 2022 at AM3 was recorded higher than the prediction in Scenario 1 (Mid 2009 to Mid 2013) of 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.
- 2.48 No prediction in the EIA Report for 1-hour TSP monitoring results at AM2(A).
- 2.49 1-hour TSP monitoring results at AM3 recorded in the reporting period were recorded lower

than the prediction in the EIA Report.

2.50 No prediction in the EIA Report for noise monitoring results at M4(A) and M5(A).

## 3. LANDSCAPE AND VISUAL MONITORING

- 3.1 In accordance with EM&A Manual (EIA Register Nos. 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.
- 3.2 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.
- 3.3 No non-compliance of the landscape and visual impact was recorded in the reporting period.
- 3.4 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in Appendix E shall be performed.

## 4. SOLID AND LIQUID WASTE MANAGEMENT

- 4.1 The amount of wastes generated by the major site activities of the work contracts within the Project during the reporting period is shown in Appendix F.
- 4.2 The Contractor was registered as a chemical waste producer for the Project.
- 4.3 Mitigation measured recommended in the EIA Report were implemented by the Contractor where applicable and were considered effective in reduction the waste generation during the reporting period.
- 4.4 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.

## 5. ENVIRONMENTAL SITE INSPECTION AND AUDIT

#### Site Inspection

- 5.1 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures and given advise if applicable in the Project site.
- 5.2 All follow-up actions requested by ET and/or IEC during site inspections were undertaken by the Contractor and ET reviewed the effectiveness in the following weekly site inspection.
- 5.3 The summaries of site audits are attached in Table 5.1.

Inspection Date	Key Observations / Advice / Recommendations /	Actions	Close-out Date / Status
3 November 2022	Observation: Stockpiles should be fully covered by impermeable sheeting to reduce dust emission in SB01.	Action Taken: Stockpiles has been fully covered by impermeable sheeting to reduce dust emission in SB01.	Closed out on 10 November 2022
10 November 2022	Observation: Stockpiles should be fully covered by impermeable sheeting to reduce dust emission in LW02.	Action Taken: Stockpiles have been removed.	Closed out on 17 November 2022
17 November 2022	Observation: Some small pieces of plywood and sawdust found@ SB01 ELS shall be removed to uphold the housekeeping and minimize the dust emissions.	Action Taken: Some small pieces of plywood and sawdust found@SB01 ELS have been removed to uphold the housekeeping and minimize the dust emissions.	Closed out on 24 November 2022
24 November 2022	Observation: Secondary container shall be provided for the plastic diesel engine oil to prevent soil contamination in LW02.	Action taken: Secondary container has been removed.	Closed out on 1 December 2022
1 December 2022	Observation: Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the	Action Taken: Cement bags were removed.	Closed out on 8 December 2022

Table 5.1 Summary of site inspections observations during the reporting period

Inspection Date	Key Observations / Advice / Recommendations /	Actions	Close-out Date / Status
8 December 2022	top and the three sides. Observation: The Non-Road Mobile Machinery (NRMM) label for the digger was missing. Please ensure the label should be properly demonstrated.	Action Taken: The Non-Road Mobile Machinery (NRMM) label was display on the digger.	Closed out on 15 December 2022
15 December 2022	Observation: The vehicles should be restricted to maximum speed of 10 km per hour.	Action Taken: The vehicles had been restricted to maximum speed of 10 km per hour.	Closed out on 22 December 2022
22 December 2022	Observation: 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.	Action taken: Cement bags were removed.	Closed out on 29 December 2022
29 December 2022	Observation: Secondary container should be provided for the plastic diesel engine oil to prevent soil contamination in LW02.	Action taken: The plastic diesel engine oil was removed.	Closed out on 5 January 2023
5 January 2023	Observation: The QPME label for the generator was missing. Please ensure the label is properly demonstrated.	Action Taken: The QPME label has been display for the generator.	Closed out on 12 January 2023
12 January 2023	Observation: Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.	Action Taken: Stockpiles were fully covered by impermeable sheeting to reduce dust emission.	Closed out on 19 January 2022
19 January 2022	Observation: Opened cement shall be properly covered to prevent dust emissions KS10 subway area.	Action Taken: Every stock of more than 20 bags of cement were covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides.	Closed out on 26 January 2023
26 January 2023	Observation: Secondary container shall be provided for the plastic diesel engine oil to prevent soil contamination in LW02.	Action taken: Plastic diesel engine oil has been removed.	Closed out on 2 February 2023

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

- 5.4 The Contractor has implemented environmental mitigation measures and requirement as stated in the EIA report, the EP and the EM&A Manual. The implementation status of the mitigation measures during the reporting period is summarized in Appendix G.
- 5.5 Based on the observations from the site inspection, it would be considered that the pollution control and mitigation measures were effective and efficient in controlling the environmental impacts generated from the construction activities of the Project site.

## 6. SUMMARY OF NON-COMPLIANCE STATUS

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

- 6.1 1-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
- 6.2 24-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
- 6.3 Construction noise monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
- 6.4 Summary of the non-compliance in the reporting period for the Project is tabulated in Table 6.1.

	Deporting	No. of Ex	ceedance	Possible reasons for	
Parameter	Reporting Period	Action	Limit	non-compliance	Action Taken
	i chida	Level	Level	non-compliance	
	Nov 2022	0	0	N/A	N/A
1-hr TSP	Dec 2022	0	0	N/A	N/A
	Jan 2023	0	0	N/A	N/A
	Nov 2022	0	0	N/A	N/A
24-hr TSP	Dec 2022	0	0	N/A	N/A
	Jan 2023	0	0	N/A	N/A
Construction	Nov 2022	0	0	N/A	N/A
Construction noise	Dec 2022	0	0	N/A	N/A
noise	Jan 2023	0	0	N/A	N/A

Table 6.1 Non-compliance record in the reporting period

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

6.5 No complaint was received in the reporting period. Summary of complaints in the reporting period is tabulated in Table 6.2.

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

Table 6.2 Summary of complaints in the reporting period

6.6 Complaint log is shown in Appendix H.

#### Notifications of summons and successful prosecutions

6.7 No notification of summons and successful prosecutions was received in the reporting period.Summary of summons and successful prosecutions in the reporting period is tabulated in Table 6.3.

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

Table 6.3 Summary of summons and successful prosecutions in the reporting period

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

## 7. COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

#### **Comments**

- 7.1 Mitigation measures in the EM&A Manuals were implemented during the reporting period. The effectiveness and efficiency of the mitigation measures were reviewed during the weekly environmental site inspection and audit.
- 7.2 Environmental monitoring works (air quality and construction noise) were performed in the reporting period to monitor the environmental impacts from the Project site.
- 7.3 Based on the observations from the site inspection and reviewing the environmental monitoring results, it would be considered that the mitigation measures were effective and efficient in controlling the environmental impacts generated from the construction activities of the Project site.

#### **Recommendations**

7.4 During the weekly environmental site inspection and audit performed in the reporting period, the following recommendations were provided:

**Inspection Date Recommendations** / Reminders Stockpiles should be fully covered by impermeable sheeting to reduce dust 3 November 2022 emission in SB01. 10 November Stockpiles should be fully covered by impermeable sheeting to reduce dust emission in LW02. 2022 Some small pieces of plywood and sawdust found@ SB01 ELS shall be 17 November 2022 removed. 24 November Secondary container shall be provided for the plastic diesel engine oil to prevent soil contamination in LW02. 2022 Every stock of more than 20 bags of cement should be covered entirely by 1 December 2022 impervious sheeting placed in an area sheltered on the top and the three sides. 8 December The Non-Road Mobile Machinery (NRMM) label should be properly 2022 demonstrated on the digger. The vehicles should be restricted to maximum speed of 10 km per hour. 15 December

<u>Table 7.1 Summary of recommendations / reminders made in site inspections during the reporting</u> period

Inspection Date	Recommendations / Reminders
2022	
22 December	Every stock of more than 20 bags of cement should be covered entirely by
2022	impervious sheeting placed in an area sheltered on the top and the three sides.
29 December	Secondary container should be provided for the plastic diesel engine oil to
2022	prevent soil contamination in LW02.
5 January 2023	The QPME label should be properly demonstrated on the generator.
12 January 2023	Stockpiles should be fully covered by impermeable sheeting to reduce dust
	emission.
19 January 2023	Opened cement shall be properly covered to prevent dust emission KS10
	subway area.
26 January 2023	Secondary container should be provided for the plastic diesel engine oil to
	prevent soil contamination in LW02.

#### **Conclusions**

- 7.5 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed.
- 7.6 1-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
- 7.7 24-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
- 7.8 Construction noise monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
- 7.9 No complaint was received in the reporting period.
- 7.10 No notification of summons and successful prosecutions was received in the reporting period.

## Figure

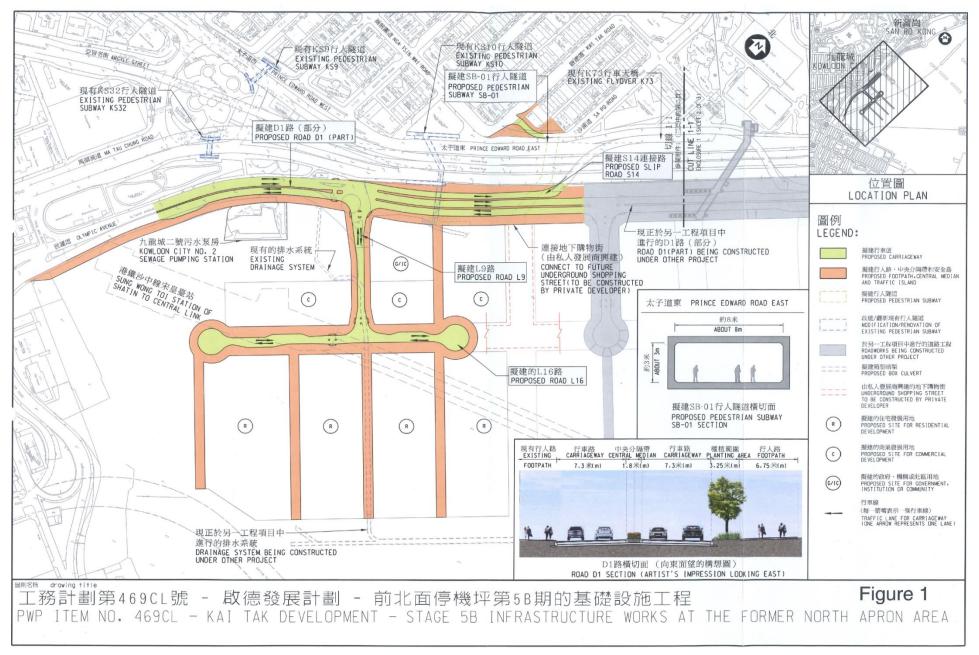


Figure 1 - Proposed works of Contract No. ED/2018/05

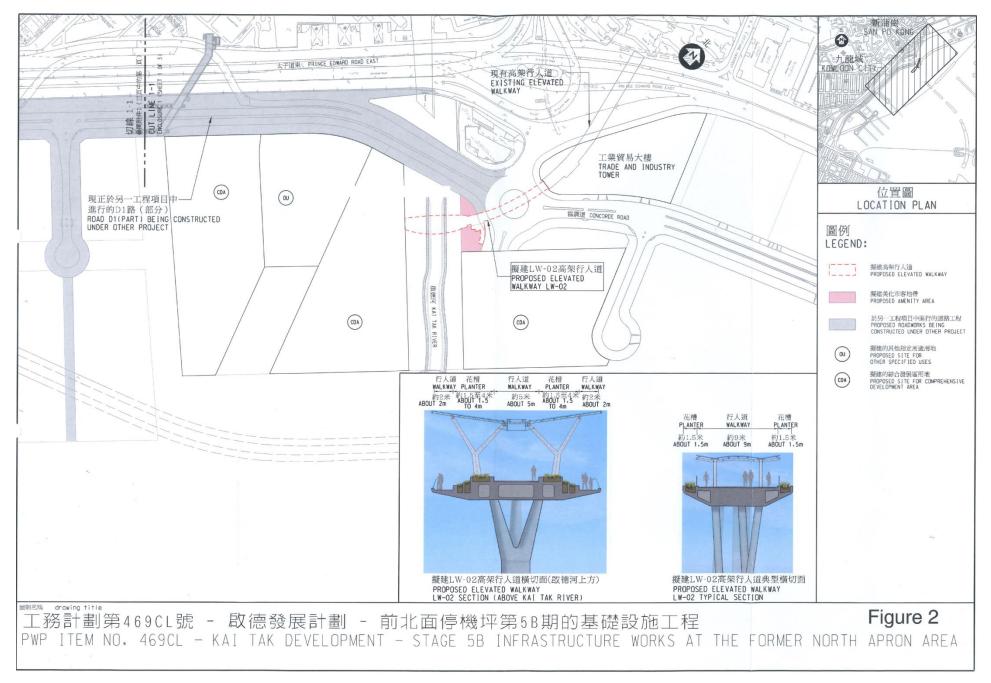


Figure 2 – Proposed works of Contract No. ED/2018/05

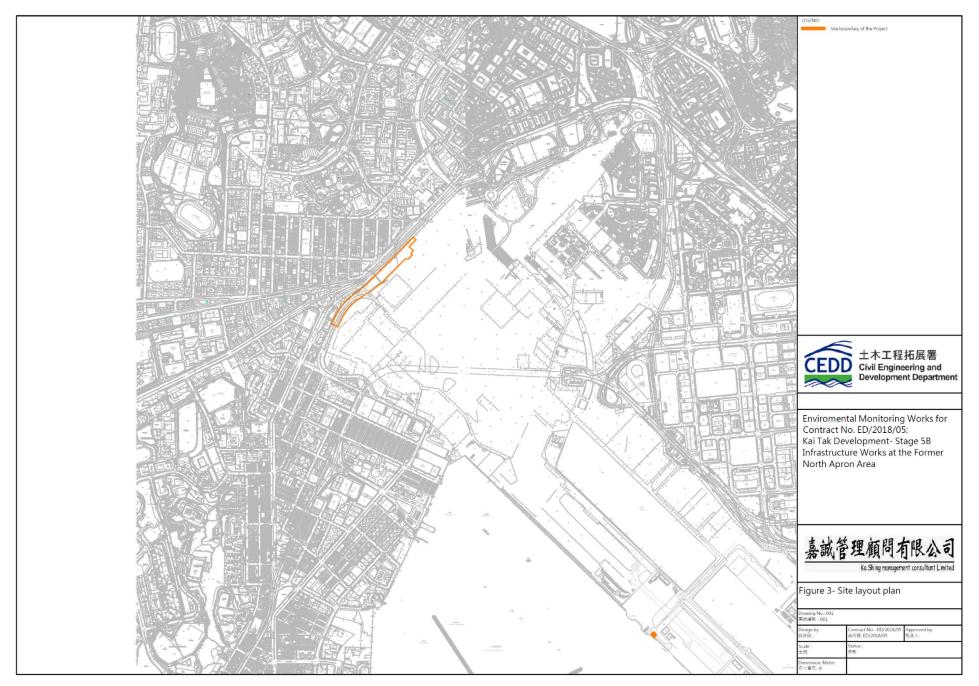


Figure 3 – D1 Road Site Layout Plan

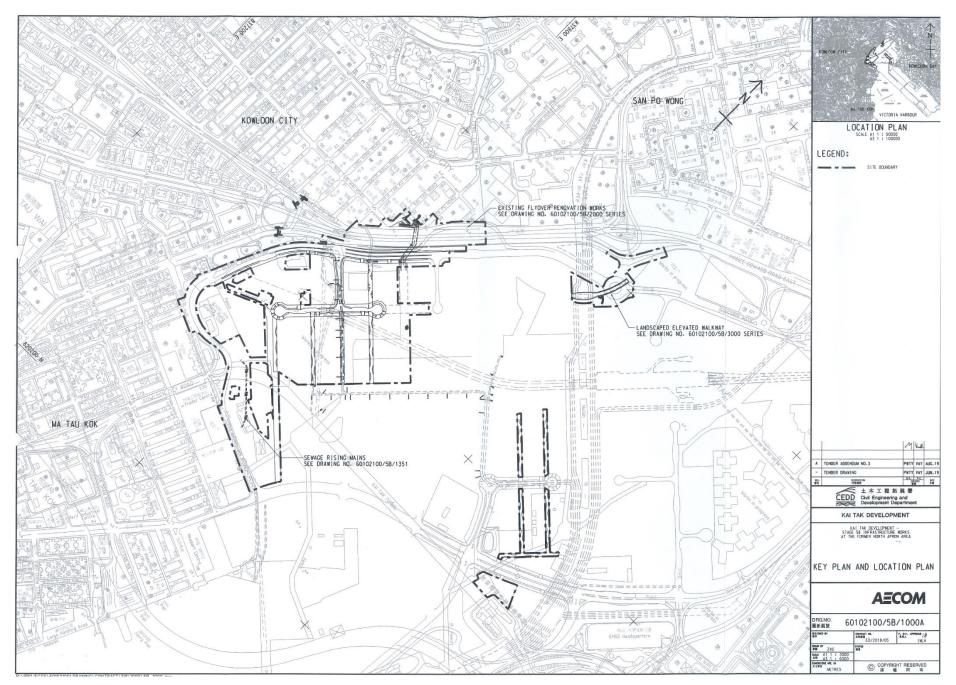


Figure 4 – Site Layout Plan

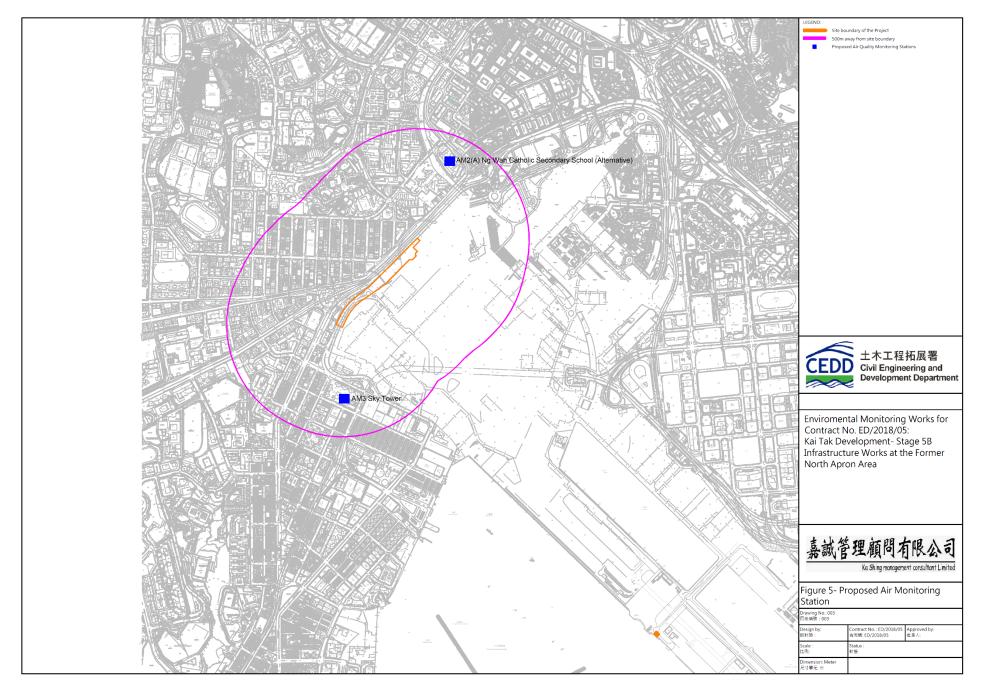


Figure 5 – Air Quality Monitoring Stations

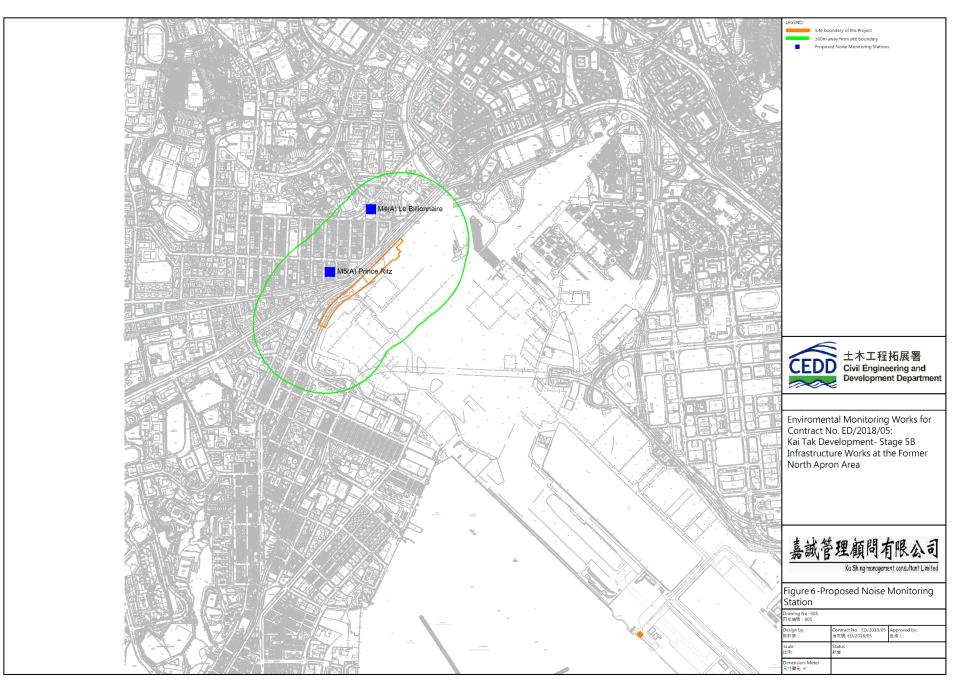
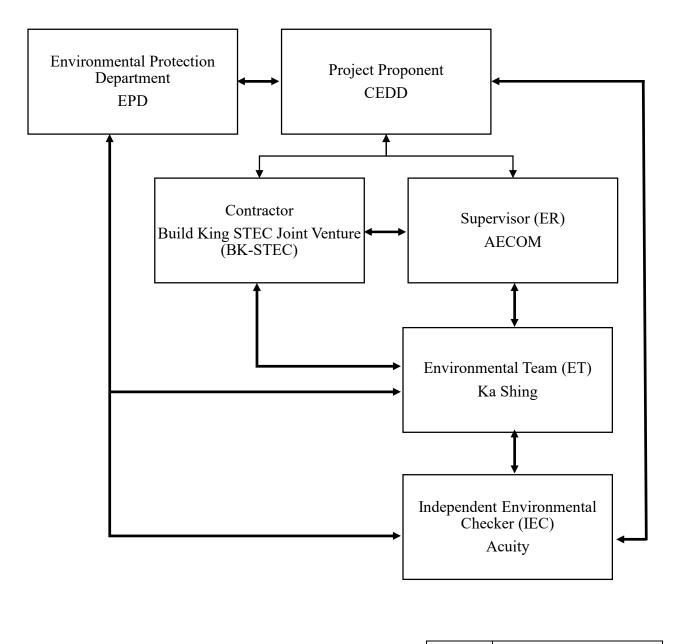
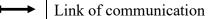


Figure 6 – Noise Monitoring Stations

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





# **Appendix B – Construction Programme**

ID	Activity Name		Ori. Dur (d)	TRA (d)	Early Start	Early Finish	Late Start	Late Finish	Total Cal Float		ASO	ND	JFN		2021 JJJ	ASO	ND.	JFM	2022 A M J J	2 J [ A [ S   O   I	NDJ	FM
I TAK DE	VELOPMENT - STAGE 5B INFRASTRUCTURE WORKS AT THE FORMER NORTH APRON AREA	2170			22-Jul-20	30-Jun-26	22-Jul-20	30-Jun-26	0				_									
DALES KD.1000	Contract date	2170 0	Od	Od	22-Jul-20 22-Jul-20	30-Jun-26	22-Jul-20 22-Jul-20	30-Jun-26		2												
.KD. 1000	Contract starting date	0	Od	0d	31-Jul-20		31-Jul-20			2												
.KD.1020	Contract completion date	0	0d	0d		30-Jun-26		30-Jun-26	0	2												
CESS DAT		1429			31-Jul-20	29-Jun-24	31-Jul-20	29-Jun-24		2												
D.KD.1030	Parts 1, 1A, 1B, 2, 3, 4, 7, 8 and 9	0	0d	0d	31-Jul-20		31-Jul-20			2			$\vdash$	+	┢┫┈	·						
KD.1040 KD.1050	Part 5 Part 6	0	Od Od	0d 0d	30-Jun-22 29-Jun-24		30-Jun-22 29-Jun-24			2												
<d.1060< td=""><td>Part 6A</td><td>0</td><td>Od</td><td>0d</td><td>30-Jun-21</td><td></td><td>30-Jun-21</td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td></d.1060<>	Part 6A	0	Od	0d	30-Jun-21		30-Jun-21			2							-					
.KD.1070	Works Areas WA1, WA2, WA3, WA4, WA5, WA6 and WA7	0	0d	0d	31-Jul-20		31-Jul-20		0	2 7												
.KD.1080	Part 10 and Works Area WA4A	0	0d	0d	29-Jan-21		29-Jan-21			2			-7							-		
D.KD.1090	Works Area WA8 SECTIONAL COMPLETION DATES	0 1826	0d	0d	31-Jul-22 30-Jun-21	30-Jun-26	31-Jul-22 30-Jun-21	30-Jun-26		2					╎╋							
.KD.1100	Section 1:Compl of all works within Parts 1 and 8 and Elevated Landscaped Walkway LW-02	0	0d	0d	J0-Juli-2 I	26-Sep-23	30-30II-2 I	26-Sep-23		2												
KD.1110	Section 2:Compl of all works within Parts 1B, 6A and 7 and remaining works of all Parts	0	Od	0d		30-Jun-25		30-Jun-25		2					<b> </b>		-					
).KD.1120	Section 3:Compl of all works within Parts 1A and 5 and drainage and sewage works within Part 6	0	0d	0d		27-Dec-23		27-Dec-23	0	2												
.KD.1130	Section 4:Compl of all UU and services within Part 4	0	0d	0d		30-Jun-21		30-Jun-21	0	2					H							
.KD.1140	Section 5:Compl of all UU and services within Part 3, rising mains diversion & demolition of ext. structures	0	0d	0d		17-Dec-21		17-Dec-21	0	2				-			-7	1				
KD.1150	Section 6:Compl of all works within Part 2 and Part 10	0	0d	0d		29-Mar-22		29-Mar-22	0	2								-	٦ İ			
KD.1160	Section 7: Compl of all works within Part 3 (Subj to excision within 416days from starting date)	0	0d	0d		25-Feb-24		25-Feb-24	0	2												
KD.1170	Section 8:Compl of all Box Culvert B1 within Parts 1 and 3 and diversion and abandon works	0	0d	0d		29-Jul-21		29-Jul-21		2					1	4						
KD.1180	Section 9:Compl of DCS works within Parts 1 and 1A (Subj to excision within 239days from starting date)	0	b0	b0		26-Sep-23		26-Sep-23		2												
KD.1190 KD.1200	Section 10:Compl of establ work for all landscape works(except Sections 14, 15 and 16) Section 11:Compl of all works within Part 4 (Subj to excision within 244days from starting date)	0	Od Od	0d 0d		26-Dec-24 25-Feb-24		26-Dec-24 25-Feb-24		2						·			+			
KD.1200	Section 12:Compl of all SB-01 within Part 1A	0	0d 0d	0d 0d		25-Sep-24		25-Sep-24		2												
KD.1220	Section 13:Compl of all works within Part 6	0	0d	0d		30-Jun-25		30-Jun-25	0	2												
.KD.1230	Section 14:Compl of estab work for landscape works within Part 3 (Subj to excision within 416days from starting date)	0	0d	0d		24-Feb-25		24-Feb-25		2												
KD.1240	Section 15:Compl of estab work for landscape works within Part 4 (Subj to excision within 244days from starting date)	0	0d	0d		24-Feb-25		24-Feb-25		2												
.KD.1250 .KD.1260	Section 16:Compl of establ work for landscape works within Part 6 Section 17:Compl of establ work for landscape works under Section 1	0	Od Od	0d 0d		30-Jun-26 25-Sep-24		30-Jun-26 25-Sep-24		2							-					
	BMISSIONS, PERMIT APPLICATION & APPROVAL	240	00	UU	22-Jul-20	18-Mar-21	22-Jul-20	23-Sep-24 24-Feb-22	· · ·	2			<b></b>	,								
.KD.1270	Prepare/submission of temporary works design	30	30d	0d	22-Jul-20	20-Aug-20	22-Jul-20	20-Aug-20	0	2												
KD.1280	Consultation/approval of temporary works design	60	60d	0d	21-Aug-20	19-Oct-20	21-Aug-20	19-Oct-20	0	2												
.KD.1290	Prepare/submit Temp Geotechnical&Structural Works to HyD/TD/CEDD/GEO and others (incl SB-01 by RTBM, etc.)	30	30d	0d	22-Jul-20	20-Aug-20	22-Jul-20	20-Aug-20		2												
KD.1300	Consult/approve Temp Geotechnical&Structural Works by HyD/TD/CEDD/GEO and others (incl SB-01 by RTBM, etc.)	120	120d	0d	21-Aug-20	18-Dec-20	21-Aug-20	18-Dec-20		2		4					-					
(D.1310 (D.1320	Prepare/submission of Temporary Drainage and Sewerage Management Plan to DSD/CEDD and others Consultation/approval of Temporary Drainage and Sewerage Management Plan by DSD/CEDD and others	29 60	29d 60d	0d 0d	22-Jul-20 20-Aug-20	19-Aug-20 18-Oct-20	23-Jul-20 21-Aug-20	20-Aug-20 19-Oct-20		-												
KD.1320	Application/approval of CNP for night works by relevant authorities and liaison with projects nearby	90	90d	0d 0d	19-Dec-20	18-Mar-21	27-Nov-21	24-Feb-22		2		4										
0.KD.1340	Application/approval of permits or other statutory submissions by relevant authorities (i.e. CEDD,HyD,WSD,XPMS & EPD)	180	180d	0d	31-Jul-20	26-Jan-21	03-Sep-20			2							-		-			
CUREM	ENT, FABRICATION AND DELIVERY	455			22-Jul-20	19-Oct-21	31-Dec-20	26-Mar-22	158	2												
.KD.1350	Design, procurement, fabrication and delivery of RTBM	365	365d	0d	22-Jul-20	21-Jul-21	31-Dec-20			2							-					
.KD.1360	Procurement, fabrication, delivery of temporary steel lining casting and pre-assembly	365	365d	0d	20-Oct-20	19-Oct-21	27-Mar-21	26-Mar-22		2	1						-					
KD.1370	TRAFFIC MANGEMENT	240	46.4	14d	31-Jul-20	27-Mar-21 28-Sep-20	12-Sep-20 21-Mar-21	29-Mar-22 19-May-21		2												
KD.1370 KD.1380	Prepare/Submit/Consult/Approval of TTA for loading/unloading at Sa Po Road and Concorde Road roundabout Prepare/Submit/Consult/Approval of TTA for working platform erection crossing Concorde Road roundabout	60 90	46d 76d	14d 14d	31-Jul-20 29-Sep-20	20-Sep-20 27-Dec-20	30-Dec-21	29-Mar-22		2	-6						-					
KD.1390	Prepare/Submit/Consult/Approval of TTA for Gl/diversion/preliminary works at PERE and Sa Po Road	90	76d	14d	31-Jul-20	28-Oct-20	12-Sep-20	10-Dec-20		2						T						
KD.1400	Prepare/Submit/Consult/Approval of TTA for 2-staged Sa Po Road and PERE W/B diversion	90	76d	14d	30-Aug-20	27-Nov-20	07-Feb-21	07-May-21	161	2	•											
KD.1410	Prepare/Submit/Consult/Approval of TTA for road and drainage works along Olympic Avenue	120	106d	14d	28-Nov-20	27-Mar-21	02-Nov-21	01-Mar-22		2		P II		•••••								
KD.2180 KD.2220	1st TMLG Meeting 2nd TMLG Meeting	0				18-Sep-20 19-Nov-20		18-Sep-20 19-Nov-20		2		Ļ										
	TION HEALTH AND SAFETY MANAGEMENT	1801			22-Jul-20	26-Jun-25	23-Jul-20	26-Jun-25		2			-									
KD.1420	Prepare/submit of Draft Safety Plan	13	13d	0d	22-Jul-20	03-Aug-20	23-Jul-20	04-Aug-20		2 1												
KD.1430	Prepare/submit Safety Plan	21	21d	0d	04-Aug-20	24-Aug-20	05-Aug-20	-		2 -	•											
KD.1440	Conduct meeting to discuss Draft Safety Plan	0	0d	0d		03-Aug-20		03-Aug-20		2												
.KD.1450	Prepare/submit Site Traffic Safety Management Plan	41	41d	b0	22-Jul-20	31-Aug-20	23-Jul-20	01-Sep-20		2	7											
KD.1460 KD.1470	Prepare/submit Construction Health and Safety Plan 1st SSMC Meeting	29	29d 1d	0d 0d	22-Jul-20 26-Aug-20	19-Aug-20 26-Aug-20	23-Jul-20 26-Aug-20	20-Aug-20 26-Aug-20		2 1 2							-					
(D.1470) (D.1480	2nd SSMC Meeting	1	1d	0d 0d	23-Sep-20	23-Sep-20	23-Sep-20	23-Sep-20		2												
(D.1490	3rd SSMC Meeting	1	1d	0d	29-Oct-20	29-Oct-20	29-Oct-20	29-Oct-20		2												
KD.1500	4th SSMC Meeting	1	1d	0d	26-Nov-20	26-Nov-20	26-Nov-20	26-Nov-20	0	2		Titt										
D.1510	5th SSMC Meeting	1	1d	0d	24-Dec-20	24-Dec-20	24-Dec-20	24-Dec-20		2												
KD.1520	6th SSMC Meeting	1	1d	0d	28-Jan-21	28-Jan-21	28-Jan-21	28-Jan-21		2		<b> </b>   .										
KD.1530	7th SSMC Meeting	1	1d	0d	25-Feb-21	25-Feb-21	25-Feb-21	25-Feb-21 24-Mar-21		2												
.KD.1540 .KD.1550	8th SSMC Meeting 9th SSMC Meeting	1	1d 1d	0d 0d	24-Mar-21 29-Apr-21	24-Mar-21 29-Apr-21	24-Mar-21 29-Apr-21	24-Mar-21 29-Apr-21		2												
KD.1560	10th SSMC Meeting	1	1d	0d	27-May-21	27-May-21	27-May-21	27-May-21		2							-					
.KD.1570	11th SSMC Meeting	1	1d	0d	24-Jun-21	24-Jun-21	24-Jun-21	24-Jun-21	0	2					1							
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▼ ▼ Critical Milestone ▼

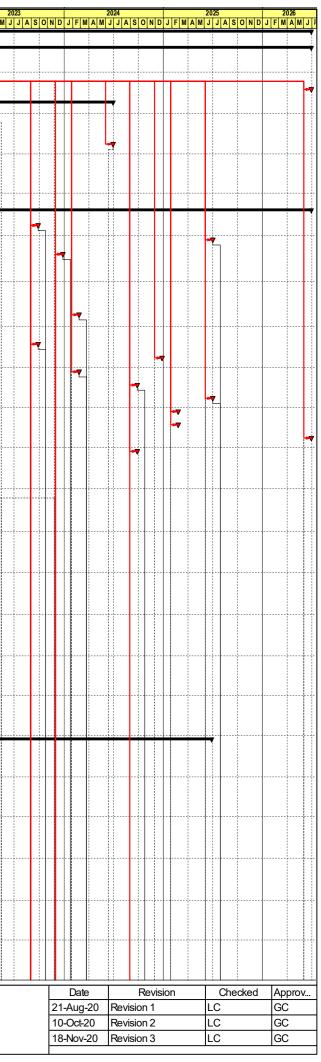
Critical Work

Summary



ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area WORKS PROGRAMME

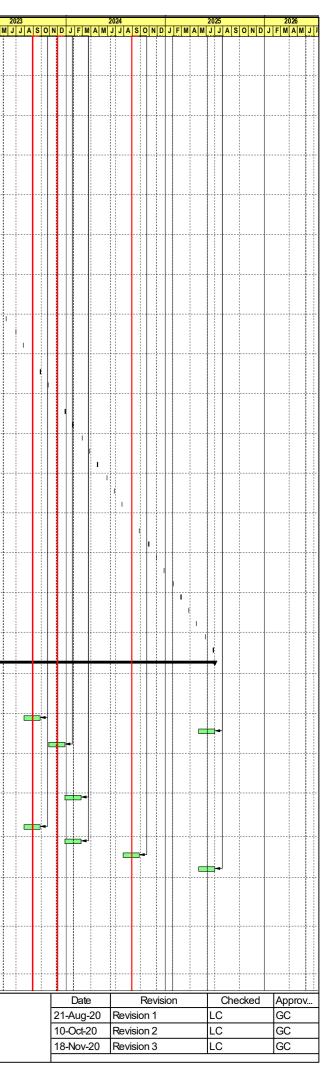
(Page 1 of 5)



KTD.KD.1590           KTD.KD.1600           KTD.KD.1610           KTD.KD.1620           KTD.KD.1630           KTD.KD.1630           KTD.KD.1640           KTD.KD.1650           KTD.KD.1660           KTD.KD.1660           KTD.KD.1660           KTD.KD.1680           KTD.KD.1690           KTD.KD.1690           KTD.KD.1690           KTD.KD.1700           KTD.KD.1710           KTD.KD.1720           KTD.KD.1720           KTD.KD.1730           KTD.KD.1740           KTD.KD.1750           KTD.KD.1780           KTD.KD.1780           KTD.KD.1790           KTD.KD.1790           KTD.KD.1790           KTD.KD.1800           KTD.KD.1800           KTD.KD.1810           KTD.KD.1820           KTD.KD.1820           KTD.KD.1840           KTD.KD.1840           KTD.KD.1840           KTD.KD.1840           KTD.KD.1850           KTD.KD.1870           KTD.KD.1870           KTD.KD.1870	3th SSMC Meeting         14th SSMC Meeting         15th SSMC Meeting         16th SSMC Meeting         17th SSMC Meeting         18th SSMC Meeting         18th SSMC Meeting         19th SSMC Meeting         19th SSMC Meeting         20th SSMC Meeting         21st SSMC Meeting         21st SSMC Meeting         22nd SSMC Meeting         21st SSMC Meeting         22nd SSMC Meeting         23rd SSMC Meeting         24th SSMC Meeting         25th SSMC Meeting <tr< th=""><th>1       1</th><th>(d)           1d           1d</th><th>(a) 0d 0d 0d 0d 0d 0d 0d 0d 0d 0d</th><th>30-Sep-21 28-Oct-21 30-Dec-21 27-Jan-22 24-Feb-22 31-Mar-22 28-Apr-22 26-May-22 30-Jun-22 28-Jul-22 25-Aug-22 29-Sep-22 27-Oct-22 24-Nov-22</th><th>26-Aug-21 30-Sep-21 28-Oct-21 25-Nov-21 30-Dec-21 27-Jan-22 24-Feb-22 31-Mar-22 26-May-22 30-Jun-22 28-Jul-22 25-Aug-22 29-Sep-22 27-Oct-22 29-Dec-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23 20-Mar-23 25-May-23</th><th>26-Aug-21 30-Sep-21 28-Oct-21 25-Nov-21 30-Dec-21 27-Jan-22 24-Feb-22 31-Mar-22 28-Apr-22 26-May-22 30-Jun-22 28-Jul-22 25-Aug-22 29-Sep-22 29-Sep-22 29-Dec-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23 27-Apr-23</th><th>26-Aug-21 30-Sep-21 28-Oct-21 25-Nov-21 30-Dec-21 27-Jan-22 24-Feb-22 31-Mar-22 26-May-22 26-May-22 26-Jau-22 25-Aug-22 25-Aug-22 29-Sep-22 29-Sep-22 24-Nov-22 29-Dec-22 26-Jan-23 30-Mar-23 27-Apr-23</th><th>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th><th>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>I A M J .</th><th>I</th><th>N D J F M /</th></tr<>	1       1	(d)           1d           1d	(a) 0d 0d 0d 0d 0d 0d 0d 0d 0d 0d	30-Sep-21 28-Oct-21 30-Dec-21 27-Jan-22 24-Feb-22 31-Mar-22 28-Apr-22 26-May-22 30-Jun-22 28-Jul-22 25-Aug-22 29-Sep-22 27-Oct-22 24-Nov-22	26-Aug-21 30-Sep-21 28-Oct-21 25-Nov-21 30-Dec-21 27-Jan-22 24-Feb-22 31-Mar-22 26-May-22 30-Jun-22 28-Jul-22 25-Aug-22 29-Sep-22 27-Oct-22 29-Dec-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23 20-Mar-23 25-May-23	26-Aug-21 30-Sep-21 28-Oct-21 25-Nov-21 30-Dec-21 27-Jan-22 24-Feb-22 31-Mar-22 28-Apr-22 26-May-22 30-Jun-22 28-Jul-22 25-Aug-22 29-Sep-22 29-Sep-22 29-Dec-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23 27-Apr-23	26-Aug-21 30-Sep-21 28-Oct-21 25-Nov-21 30-Dec-21 27-Jan-22 24-Feb-22 31-Mar-22 26-May-22 26-May-22 26-Jau-22 25-Aug-22 25-Aug-22 29-Sep-22 29-Sep-22 24-Nov-22 29-Dec-22 26-Jan-23 30-Mar-23 27-Apr-23	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2									I A M J .	I	N D J F M /
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KTD.KD.1800 KTD.KD.1810 KTD.KD.1820 KTD.KD.1830 KTD.KD.1840 KTD.KD.1850 KTD.KD.1860 KTD.KD.1860 KTD.KD.1870	34th SSMC Meeting 35th SSMC Meeting 36th SSMC Meeting 37th SSMC Meeting 38th SSMC Meeting 39th SSMC Meeting 40th SSMC Meeting	1 1 1 1 1 1 1	1d 1d 1d	Od Od	25-May-23	-	27-Apr-23		•	0			1 1		1						
KTD.KD.1810 KTD.KD.1820 KTD.KD.1830 KTD.KD.1840 KTD.KD.1850 KTD.KD.1860 KTD.KD.1870	35th SSMC Meeting         36th SSMC Meeting         37th SSMC Meeting         38th SSMC Meeting         39th SSMC Meeting         40th SSMC Meeting	1 1 1 1 1	1d 1d	0d	-	20 11109 20	25-May-23	27-Api-23 25-May-23	0	2								++			
KTD.KD.1820 KTD.KD.1830 KTD.KD.1840 KTD.KD.1850 KTD.KD.1860 KTD.KD.1870	36th SSMC Meeting         37th SSMC Meeting         38th SSMC Meeting         39th SSMC Meeting         40th SSMC Meeting	1 1 1 1	1d		23-Juli-23	29-Jun-23	29-Jun-23	29-Jun-23	0	2	-							}			
KTD.KD.1840 KTD.KD.1850 KTD.KD.1860 KTD.KD.1870	38th SSMC Meeting       39th SSMC Meeting       40th SSMC Meeting	1	1d	0d	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	0	2								}			
KTD.KD.1850 KTD.KD.1860 KTD.KD.1870	39th SSMC Meeting 40th SSMC Meeting	1		0d	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	0	2											
KTD.KD.1860 KTD.KD.1870	40th SSMC Meeting		1d	0d	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23	0	2											
KTD.KD.1870			1d	b0	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	0	2			-								
		1	1d 1d	Od Od	30-Nov-23 28-Dec-23	30-Nov-23 28-Dec-23	30-Nov-23 28-Dec-23	30-Nov-23 28-Dec-23		2	-										
	42nd SSMC Meeting	1	1d	0d 0d	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24	0	2	-										
KTD.KD.1890	43rd SSMC Meeting	1	1d	Od	29-Feb-24	29-Feb-24	29-Feb-24	29-Feb-24	0	2	1111					rttt		11-1-1-1			
KTD.KD.1900	44th SSMC Meeting	1	1d	0d	28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24	0	2											
KTD.KD.1910	45th SSMC Meeting	1	1d	0d	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	0	2											
KTD.KD.1920	46th SSMC Meeting	1	1d	0d	30-May-24	30-May-24	30-May-24	30-May-24	0	2											
KTD.KD.1930 KTD.KD.1940	47th SSMC Meeting 48th SSMC Meeting	1	1d 1d	Od Od	27-Jun-24 25-Jul-24	27-Jun-24 25-Jul-24	27-Jun-24 25-Jul-24	27-Jun-24 25-Jul-24	0	2	-										
KTD.KD. 1940	40th SSMC Meeting 49th SSMC Meeting	1	1d	0d 0d	29-Aug-24	29-Aug-24	29-Aug-24	29-Aug-24	0	2						┢╋		}			
KTD.KD.1960	50th SSMC Meeting	1	1d	0d	26-Sep-24	26-Sep-24	26-Sep-24	26-Sep-24	0	2											
KTD.KD.1970	51st SSMC Meeting	1	1d	0d	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	0	2											
KTD.KD.1980	52nd SSMC Meeting	1	1d	0d	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24	0	2											
KTD.KD.1990	53rd SSMC Meeting	1	1d	0d	26-Dec-24	26-Dec-24	26-Dec-24	26-Dec-24		2											
KTD.KD.2000 KTD.KD.2010	54th SSMC Meeting	1	1d 1d	b0	30-Jan-25 27-Feb-25	30-Jan-25	30-Jan-25 27-Feb-25	30-Jan-25	0	2											
KTD.KD.2010	55th SSMC Meeting 56th SSMC Meeting	1	1d	Od Od	27-Pe0-25 27-Mar-25	27-Feb-25 27-Mar-25	27-Peo-25 27-Mar-25	27-Feb-25 27-Mar-25	_	2	-										
KTD.KD.2030	57th SSMC Meeting	1	1d	0d	24-Apr-25	24-Apr-25	24-Apr-25	24-Apr-25	0	2											
KTD.KD.2040	58th SSMC Meeting	1	1d	0d	29-May-25	29-May-25	29-May-25	29-May-25	0	2						r ti t					
KTD.KD.2050	59th SSMC Meeting	1	1d	0d	26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25	0	2											
	DELIVERABLES	1796			31-Jul-20	30-Jun-25	01-Aug-20	30-Jun-26	365	2											
KTD.KD.2060	Prepare/submit BIM Execution Plan	29	29d	0d	31-Jul-20	28-Aug-20	01-Aug-20	29-Aug-20	1	2											
KTD.KD.2070 KTD.KD.2080	Prepare/submit Combined Services Drawings and CBWD generated from BIM Prepare/submit proposal of asset information requirement	44 364	44d 364d	Od Od	31-Jul-20 31-Jul-20	12-Sep-20 29-Jul-21	01-Aug-20 01-Aug-20	13-Sep-20 30-Jul-21	1	2											
KTD.KD.2000	Prepare/submit proposal of asset information requirement	60	60d	0d 0d	29-Jul-23	29-501-21 26-Sep-23	01-Aug-20 02-May-26	30-Jun-26	1008	2									+		
KTD.KD.2100	Prepare/submit Asset Date Deliverables for Section 1	60	60d	0d 0d	02-May-25	30-Jun-25	02-May-26	30-Jun-26		2	-										
KTD.KD.2110	Prepare/submit Asset Date Deliverables for Section 3	60	60d	0d	29-Oct-23	27-Dec-23	02-May-26	30-Jun-26		2											
KTD.KD.2120	Prepare/submit Asset Date Deliverables for Section 4	60	60d	0d	02-May-21	30-Jun-21	02-May-26	30-Jun-26	1826	2											
KTD.KD.2130	Prepare/submit Asset Date Deliverables for Section 5	60	60d	0d	19-Oct-21	17-Dec-21	02-May-26	30-Jun-26	-	2								11			
KTD.KD.2140	Prepare/submit Asset Date Deliverables for Section 6	60	60d	b0	29-Jan-22	29-Mar-22	02-May-26	30-Jun-26		2					<b>.</b>						
KTD.KD.2150	Prepare/submit Asset Date Deliverables for Section 7	60	60d	b0	28-Dec-23	25-Feb-24	02-May-26	30-Jun-26	-	2	-										
KTD.KD.2160	Prepare/submit Asset Date Deliverables for Section 8	60	60d	b0	31-May-21	29-Jul-21	02-May-26	30-Jun-26	_	2	-				Г						
KTD.KD.2170 KTD.KD.2190	Prepare/submit Asset Date Deliverables for Section 9 Prepare/submit Asset Date Deliverables for Section 11	60 60	60d 60d	Od Od	29-Jul-23 28-Dec-23	26-Sep-23 25-Feb-24	02-May-26 02-May-26	30-Jun-26 30-Jun-26		2		<b>.</b>						<u>+</u> }-			
KTD.KD.2190	Prepare/submit Asset Date Deliverables for Section 11 Prepare/submit Asset Date Deliverables for Section 12	60	60d	0d 0d	28-Jul-24	25-PeD-24 25-Sep-24	02-May-20 02-May-26	30-Jun-26	-	2	-							}			
KTD.KD.2210	Prepare/submit Asset Date Deliverables for Section 13	60	60d	0d	02-May-25	30-Jun-25	02-May-26	30-Jun-26		2								!			
	EERING SHCEME DROP-OFF SCHEDULE	833			31-Jul-20	10-Nov-22	31-Jul-20	10-Nov-22	_	2							-	+	<u></u>		<i>•</i>
KTD.VE.1000	Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01	153	96d	0d	31-Jul-20	30-Dec-20	31-Jul-20	30-Dec-20	0	2	1										
KTD.VE.1010	Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01	165	133d	0d	31-Jul-20	11-Jan-21	31-Jul-20	11-Jan-21	0	2	-		╞┊┃					}			
KTD.VE.1020	Review/prepare/submit VE scheme for piling arrangement for new pier of existing Bridge K73	431	426d	0d	01-Aug-20	05-Oct-21	01-Aug-20	05-Oct-21	0	2	-		<u> </u>								
KTD.VE.1030	Review/prepare/submit VE scheme for pilling arrangement for abutment of Slip Road S14	832	752d	0d	01-Aug-20	10-Nov-22	01-Aug-20	10-Nov-22		2	╶┼╬╧┛			_				<b>⊨</b> ∔		_	
KTD.VE.1040	Review/prepare/submit VE scheme for piling arrangement for lift shaft of KS10	627	766d	0d	01-Aug-20	19-Apr-22	01-Aug-20	19-Apr-22		2	-								<b>-</b>		
KTD.VE.1050	Review/prepare/submit VE scheme for piling arrangement for lift shaft and staircase of LW-02	677	288d		31-Jul-20	07-Jun-22	31-Jul-20	07-Jun-22	_	2	-	<b>III.</b>		_							
N. D.VL.1000		011	2000	00	01 JUI-20	01 0011-22	01-00-20	VI JUII-22		-											
	stone Planned W cal Milestone Summary cal Work With Content of Market Content of	ED/	2018/	/05 K	ai Tak E	Develop	ment - S	Stage 5 WORK						ks a	at th	le F	orm	ner M	lorth	Aproi	n Area

Build King – STEC Joint Venture

WORKS PROGRAMME (Page 2 of 5)



	Activity Name	Dur (d)	Ori. Dur (d)	r TRA (d)	Early Start	Early Finish	Late Start	Late Finish	Float	Calendar	0 J   A   S	ONDJ	J F M /	202 A M J			FMAN	2022 M J J A S	SOND	DJF
	RUCTURAL WORKS	1720			31-Jul-20	15-Apr-25	31-Jul-20	30-Jun-26												
	ID PRELIMINARY WORKS	1708			31-Jul-20	03-Apr-25	01-Aug-20	30-Jun-26	453		1									
	General and preliminary works (inclu site formation, site set-up, access, temp drain. sys, ground investigation and etc)	1200	1200d		31-Jul-20	22-Aug-24	07-Jun-21	30-Jun-25		1										
	Construction, maintenance and removal of ICA, EVA, Crowd Dispersal Route and other temporary access Prepare/submit site arrangement plan (inclu hoarding, project sign board and security arrangement)	1383	1383d 13d	0d 0d	31-Jul-20 31-Jul-20	03-Apr-25 12-Aug-20	17-Oct-20 01-Aug-20	30-Jun-25 13-Aug-20	65 1	1										
	Design/submit/approval site layout plan and Contractor's site accommodation using MiC method	44	30d	14d	13-Aug-20	25-Sep-20	14-Aug-20		1	2	Ç,									
	Construct foundation and erect Contractor's site accommodation	76	62d	14d	26-Sep-20	29-Dec-20	03-Apr-26	30-Jun-26	1630	1	-									
TD.GW.1050	Tree Survey	27	27d	0d	31-Jul-20	26-Aug-20	01-Aug-20	27-Aug-20	1	2	- <u>19</u>									
TD.GW.1055	Initial tree survey report and tree felling application	120	120d	0d	27-Aug-20	24-Dec-20	23-Dec-25	21-Apr-26	1944	2										
	Tree felling works	60	53d	7d	28-Dec-20	11-Mar-21	22-Apr-26	30-Jun-26	1572	1			-							
	Protection to retained trees and tree transplating works	234	208d	26d	27-Aug-20	17-Jun-21	25-Sep-25	30-Jun-26	1498	1	*									
	ION OF PEDESTRIAN SUBWAY SB-01	1518			31-Jul-20	25-Sep-24	11-Dec-20													
	SUBWAY SB-01 UNDER PERE AND PROPOSED ROAD D1 USING CUT AND COVER METHOD	1138	400.1		31-Jul-20	11-Sep-23	29-Dec-20	27-Dec-23		•										
	Liaison/coordinate with utility and service undertakings on diversion works (including CLP, DCS work and etc.)	180	180d 84d	0d 7d	31-Jul-20 07-Dec-20	26-Jan-21	29-Dec-20	26-Jun-21	151 115	2			-							
(TD.SB.1010 (TD.SB.1020	Expose and install protect/support system for existing underground utilities and services (incl 132kV and 400kV cables) Installation of sheet piles for South Shaft and construction of traffic deck at Proposed Road D1	89	75d	14d	12-Jan-21	01-Apr-21 07-May-21	06-May-21 12-Jan-21	23-Aug-21 07-May-21	0	1		L .								
	Construction of road diversion for PERE westbound diversion (TTA Scheme B1)	89	75d	14d	08-May-21	23-Aug-21	08-May-21		0	1			1							
	Implementation of traffic diversion for PERE westbound	0	Od	Od		23-Aug-21	,	23-Aug-21	0	1					-					
(TD.SB.1050	Installation of ELS and excavation for South Shaft at Proposed Road D1	104	132d	12d	26-May-22	28-Sep-22	26-May-22		0	1							-	-	<b>_</b>	
(TD.SB.1060	Construction of RC structure from CH114.648 to CH67	126	114d	12d	29-Sep-22	03-Mar-23	29-Sep-22	03-Mar-23	0	1								4	-	÷
KTD.SB.1070	Backfilling for South Shaft at Proposed Road D1	78	64d	14d	04-Mar-23	09-Jun-23	04-Mar-23	09-Jun-23	0	1										-
KTD.SB.1080	Installation of steelworks, ABWF, other facilities, lift and other E&M installation	156	130d	26d	04-Mar-23	11-Sep-23	21-Jun-23	27-Dec-23		1										
	SUBWAY SB-01 UNDER PERE AND SA PO ROAD USING TRENCHLESS METHOD	1428			29-Oct-20	25-Sep-24	11-Dec-20	25-Sep-24	0											
	Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carriageway and footpath)	52	46d	6d	29-Oct-20	30-Dec-20	11-Dec-20	16-Feb-21	37	1		Ē								
	Diversion of existing underground utilities and services (incl. DN1800 drain pipe, 11kV cables and etc.)	130	118d	12d	31-Dec-20	16-Jun-21	17-Feb-21	30-Jul-21	37	1		17								
(TD.SB.1110 (TD.SB.1120	Installation of partial pipe pile and sheet pile of North Shaft and traffic deck at Sa Po Road Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carriageway and footpath)	40	37d 46d	3d 6d	17-Jun-21 04-Aug-21	03-Aug-21 05-Oct-21	31-Jul-21 16-Sep-21	15-Sep-21 18-Nov-21	37 37	1					E -					
(TD.SB.1120 (TD.SB.1130	Installation of Remaining ELS and excavation of North Shaft at Sa Po Road	116	400 104d	12d	04-Aug-21 06-Oct-21	25-Feb-22	10-Sep-21 19-Nov-21	11-Apr-22		1					Ē					
	Ground improvement works at North Shaft at Sa Po Road for RTBM drive-in	26	24d	2d	26-Feb-22	28-Mar-22	12-Apr-22	17-May-22		1						]   [	-			
(TD.SB.1150	Installation of ELS and excavation for Intermediate Shaft at PERE westbound and tunneling setup	78	72d	6d	24-Aug-21	25-Nov-21	24-Aug-21	25-Nov-21	0	1										
	Ground improvement works at Intermediate Shaft at PERE westbound for break-in	27	24d	3d	27-Nov-21	30-Dec-21	27-Nov-21	30-Dec-21	0	1										
	Conduct seismic geophysical survey for PERE and other site investigation works	26	24d	2d	31-Dec-21	31-Jan-22	25-Feb-22	26-Mar-22	44	1							U I			
(TD.SB.1180	Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE westbound	70	64d	6d	31-Dec-21	26-Mar-22	31-Dec-21	26-Mar-22	0	1										
	Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH17 (38m, 1.5m/day)	60	48d	12d	27-Mar-22	25-May-22	27-Mar-22		0	2								-		
	Dismantling of RTBM and removal from Intermediate Shaft at PERE westbound	54	52d	2d	26-May-22	29-Jul-22	26-May-22	29-Jul-22	0	1										
	Installation of horizontal pipe pile and excavation from CH14 to CH17 (74nos HPP, 270m3 exca)	43	37d	6d	26-May-22	16-Jul-22	26-May-22	16-Jul-22	0	1	117-1							-		
(TD.SB.1220	Construction of RC structure at Intermediate Shaft at PERE westbound from CH57 to CH67	36	30d	6d	30-Jul-22	09-Sep-22	30-Jul-22	09-Sep-22	0	1								-		
KTD.SB.1230	Backfilling for Intermediate Shaft at PERE westbound and reinstatement of existing road at PERE westbound	48	42d	6d	13-Sep-22	09-Nov-22	13-Sep-22	09-Nov-22	0	1								╘	<b></b>	
KTD.SB.1240	Remove TTA and resume traffic at PERE westbound	0	Od	0d		09-Nov-22		09-Nov-22	0	1									7	
	Construction of RC structure at North Shaft at Sa Po Road and from CH15 to CH57	260	236d	24d	18-Jul-22	03-Jun-23	18-Jul-22	03-Jun-23	0	1								-	1	_
	Backfilling for North Shaft at Sa Po Road	52	46d	6d	05-Jun-23	05-Aug-23	05-Jun-23		0	1										
	Installation of ELS and excavation for remaining staircase and escalator trough structure	40	33d	6d	07-Aug-23	21-Sep-23				1										
	Construction of remaining staircase and escalator trough structure and backfilling Installation of steelworks, ABWF, other facilities, lift, escalator and other E&M installation	78	64d 200d	14d	22-Sep-23 28-Dec-23	27-Dec-23 25-Sep-24	22-Sep-23 28-Dec-23			1										
	Planned Completion of Pedestrian Subway SB-01 (Related to Section 12)	0	2000 0d	0d	20-Dec-23	25-Sep-24 25-Sep-24	20-060-20	25-Sep-24 25-Sep-24		1										
	ION OF ELEVATED WALKWAY LW-02	1153	00	ou	31-Jul-20	26-Sep-23	07-Nov-20	-			-			╇		<b>_</b>			4	_
IER 10		206			07-Nov-20	24-Jul-21	07-Nov-20		0	1		┝┿┥			-					
	Pre-drilling works (2 nos, 1 rig)	35	33d	2d	07-Nov-20	17-Dec-20	07-Nov-20			1				-						
	Piling works for bored piles (2nos, 2200dia x 67m, 1 rig)	80	75d	5d	18-Dec-20	31-Mar-21	18-Dec-20	31-Mar-21	0	1										
KTD.LW.1100	Installation of ELS and excavation for pile cap construction (273.5m3 exca, 1 team)	26	22d	4d	01-Apr-21	06-May-21	01-Apr-21	06-May-21	0	1			•							
KTD.LW.1110	Construction of RC structure (pile cap & pier column) (149m3, 1 team)	65	53d	12d	07-May-21	24-Jul-21	07-May-21	24-Jul-21	0	1			L. L.		<b>-</b>					
IER 9		206			20-Oct-20	07-Jul-21	07-Nov-20	24-Jul-21	15	1					[					
	Pre-drilling works (2 nos, 1 rig)	35	33d	2d	20-Oct-20	30-Nov-20	07-Nov-20	17-Dec-20	15	1										
	Piling works for bored piles (2nos, 2200dia x 67m, 1 rig)	80	75d	5d	01-Dec-20	10-Mar-21	18-Dec-20	31-Mar-21	15	1			7							
	Installation of ELS and excavation for pile cap construction (520.5m3 exca, 1 team)	26	22d	4d	11-Mar-21	17-Apr-21	01-Apr-21			1			<del>ا</del> ۲	4						
	Construction of RC structure (pile cap & pier column) (184m3, 1 team)	65	53d	12d	19-Apr-21	07-Jul-21	07-May-21		15	1										
	(PIER 9 TO PIER 10)	323			01-Apr-21	17-Feb-22	04-Jun-21	13-Sep-22									-			
	Piling works for temp. pre-bored H-piles (12 nos, 610dia x 69m, 2 rigs)	52	42d	10d	01-Apr-21	22-May-21	04-Jun-21		64	2			-							
	Installation and erecting temp, working platform	78	52d	26d	26-Jul-21	27-Oct-21	26-Jul-21	27-Oct-21	0	1	<u> </u>									
	Construction of RC bridge structure (1079m3, 4 teams) Prestressing works	65 26	50d 26d	15d 0d	28-Oct-21 15-Jan-22	14-Jan-22 17-Feb-22	28-Oct-21 12-Aug-22	14-Jan-22 13-Sep-22	0	1										
ER 11		433	200	u	31-Jul-20	06-Oct-21	27-Feb-21			1			++	╇╋┛	┢┷╫┙	,    -				
	Liaison/coordinate with adjacent project for TTA arrangement	90	90d	0d	31-Jul-20	28-Oct-20	27-Feb-21			2									-++	
	Implementation of TTA	7	7d	0d	18-Nov-20	25-Nov-20	20-May-21			1										
	Pre-drilling works (4 nos, 1 rig)	48	46d	2d	26-Nov-20	23-Jan-21	28-May-21	24-Jul-21	142	1		┣╪	1							
	Piling works for bored piles (4nos, 1800dia x 78m, 1 rig)	112	100d	12d		18-Jun-21	26-Jul-21		142	1			-	ŧ i					1	
KTD.LW.1160	Installation of ELS and excavation for pile cap construction (319.9m3 exca, 1 team)	26	22d	4d	19-Jun-21	20-Jul-21	07-Dec-21	08-Jan-22	142	1				-						
KTD.LW.1170	Construction of RC structure (pile cap & pier column) (138m3, 1 team)	65	53d	12d	21-Jul-21	06-Oct-21	10-Jan-22	29-Mar-22	142	1										
	(PIER 10 TO PIER 11)	129			07-Oct-21	14-Mar-22	30-Mar-22			1							-			
	Implementation of TTA for Concorde Road roundabout and erecting temp. working platform across carriageway	10	12d	0d	07-Oct-21	21-Oct-21	30-Mar-22	13-Apr-22	142	1				111	1 14	<u>    </u>				
	imperientation of TTA for Concorde road roundabout and electing temp. Working platform across carnageway	12	120								111				1 1					
KTD.LW.1180				-				04	<b>.</b>				 !		<u> </u>	·				•
TD.LW.1180 Mile:				-	(ai Tak	Develop	oment - S	Stage 5	B Infr	astru	ictu	re Wo	orks	at t	he F	orme	r Nor	rth Ap	oron A	Are

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Build King – STEC Joint Venture

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ctivity ID	Activity Name	Dur (d)	Ori. Dur (d)	TRA (d)	Early Start	Early Finish	Late Start	Late Finish	Total Float	Calenda			DJF	MA	2021 M J J			JFM	202	2 JAISIC		
KTD.LW.1190	Erecting temp. working platform at roadside	26	24d	2d	22-Oct-21	20-Nov-21	23-Apr-22	25-May-22	_	1			1									T
KTD.LW.1200	Construction of RC bridge structure (434m3, 2 teams)	65	65d	0d	22-Nov-21	11-Feb-22	26-May-22	11-Aug-22	147	1			-					7				
	Prestressing works	26	26d	0d	12-Feb-22	14-Mar-22	12-Aug-22	13-Sep-22	147	1												
	E (PIER 11 TO PIER 12)	122			22-Oct-21	19-Mar-22	14-Apr-22	13-Sep-22	_	1		į							<u>       </u>			Ļ
	Implementation of TTA for Concorde Road roundabout and erecting temp. working platform across carriageway	12	12d	0d	22-Oct-21	04-Nov-21	14-Apr-22	30-Apr-22	-	1												
KTD.LW.1230	Erecting temp. working platform at roadside	26	24d	2d	05-Nov-21	04-Dec-21	03-May-22	02-Jun-22		1												
KTD.LW.1240 KTD.LW.1250	Construction of RC bridge structure (311m3, 2 teams) Prestressing works and bearing installation works	58 26	58d 26d	0d 0d	06-Dec-21 18-Feb-22	17-Feb-22 19-Mar-22	04-Jun-22 12-Aug-22	11-Aug-22 13-Sep-22		1		ļ			<b>.</b>							+
	STAIR CASE, SOFT LANDSCAPING & OTHER WORKS	787	200	Uu	25-Jan-21	26-Sep-23	12-Aug-22 17-Nov-21	26-Sep-22		1			-		╇	+	╺╇╋					_
KTD.LW.1260	Pre-driling works (6 nos, 2 rig)	48	46d	2d	25-Jan-21	24-Mar-21	17-Nov-21	14-Jan-22		1												
KTD.LW.1270	Piling works for pre-bored H-piles for PC1, PC2, PC3 and PC4 (19 nos, 610dia x 70m, 2 rigs)	78	72d	6d	15-Jan-22	23-Apr-22	15-Jan-22	23-Apr-22	0	1	1					11	- [4	ł				+
KTD.LW.1280	Installation of ELS and excavation for pile caps construction (PC1, PC2, PC3 and PC4, 379.1m3 exca, 1 team)	38	34d	4d	25-Apr-22	10-Jun-22	25-Apr-22	10-Jun-22	0	1									<b>-</b>			
KTD.LW.1290	Construction of RC structures (inclu. pile caps, pier column, lift shaft, staircase, etc.)	78	64d	14d	11-Jun-22	13-Sep-22	11-Jun-22	13-Sep-22	0	1									⊧⊾≢			
KTD.LW.1300	Lift and other E&M installation, testing and commissioning	156	144d	12d	14-Sep-22	23-Mar-23	16-Nov-22	30-May-23	52	1										-		4
KTD.LW.1310	Construction of roof, planter, landscape softworks, other facilities and ABWF works for whole walkway	208	182d	26d	14-Sep-22	30-May-23	14-Sep-22	30-May-23	0	1											_	-
KTD.LW.1320	Planned Completion of Landscaped Elevated Walkway LW-02 (Related to Section 1)	0	Od	0d		30-May-23		30-May-23	0	1								ļļ.				L F
	Advance Completion of Landscaped Elevated Walkway LW-02 to Specific Contract Completion Date (Section 1)	101	101d	0d	30-May-23	26-Sep-23	30-May-23	26-Sep-23	0	1						_						T
	FION OF BOX CULVERT B1	364			31-Jul-20	29-Jul-21	20-Oct-20	29-Jul-21	0							11						
KTD.BC.1000	Prepare/submission of temporary EVA diversion scheme with SCL	60	60d	0d	31-Jul-20	28-Sep-20	02-Nov-20	31-Dec-20		2					<b>.</b>							
KTD.BC.1010	Consult/liaison/vetting/approval of temporary EVA diversion scheme with SCL RT B1 (CHB1 364.584 TO CHB1 168.00)	120 225	120d	0d	30-Aug-20 20-Oct-20	27-Dec-20 29-Jul-21	02-Dec-20 13-Nov-20	31-Mar-21 29-Jul-21	94	2												
KTD.BC. 1020	Installation of ELS and excavation for CHB1 364.584 to CHB1 348.00 (24m ELS, 523.8m3 exca, 2 team)	225	24d	2d	20-Oct-20 20-Oct-20	19-Nov-20	13-Nov-20	12-Dec-20	20	1												
KTD.BC. 1020	Installation of ELS and excavation for CHB1 348.00 to CHB1 216.00 (12718m3, 2 teams)	78	72d	20 6d	02-Nov-20	03-Feb-21	25-Nov-20	02-Mar-21	_	1						-+-+						+
KTD.BC. 1030	Construction of RC box culvert structure (1435m3, 4 teams)	78	72u 74d	2d	02-1404-20 05-Jan-21	16-Apr-21	23-140V-20 28-Jan-21	11-May-21		1			-									
KTD.BC.1050	Backfilling from CHB1 364.584 to CHB1 216.00 (10043m3, 4 teams)	78	74d	2d	25-Mar-21	06-Jul-21	26-Apr-21	29-Jul-21	20	1					<b>H</b>							
KTD.BC.1060	Excavation for CHB1 216.00 to CHB1 168.00 by ELS/open-cut/other accepted method (4600m3, 2 teams)	32	32d	7d	01-Apr-21	13-May-21	01-Apr-21	13-May-21	0	1				1	i T							
KTD.BC.1070	Construction of RC box culvert structure from CHB1 216.00 to CHB1 168.00 (370m3, 3 teams)	52	48d	4d	19-Apr-21	21-Jun-21	19-Apr-21	21-Jun-21	0	1												
KTD.BC.1080	Backfilling from CHB1 216.00 to CHB1 168.00 (3800m3, 4 teams)	52	48d	4d	28-May-21	29-Jul-21	28-May-21	29-Jul-21	0	1	1				•	4						
BOX CULVER	RT B1 (CHB1 168.00 TO CH. 89.123)	225			20-Oct-20	29-Jul-21	20-Oct-20	29-Jul-21	0	1		-				•						
KTD.BC.1090	Installation of ELS and excavation for CHB1 115.392 to CHB1 168.00 (114m ELS, 3400m3 exca, 2 teams)	51	33d	6d	20-Oct-20	18-Dec-20	20-Oct-20	18-Dec-20	0	1			•									
KTD.BC.1095	Encounter CLP cables at CHB1 143.3 to CHB1 131.125 and removal by CLP	12	12d	0d	03-Nov-20	16-Nov-20	03-Nov-20	16-Nov-20	0	1												
KTD.BC.1100	Construction of RC box culvert structure for CHB1 115.392 to CHB1 168.00 (434m3, 2 teams)	78	78d	0d	28-Nov-20	05-Mar-21	28-Nov-20	05-Mar-21	0	1												
KTD.BC.1110	Backfilling from CHB1 168.00 to CHB1 115.392 and construct temporary diversion EVA with facilities (2374m3, 2 teams)	52	46d	6d	23-Jan-21	31-Mar-21	23-Jan-21	31-Mar-21	0	1				E								
KTD.BC.1120	Traffic diversion for MTRC EVA of SCL Station and SUA	0	0d	0d		31-Mar-21		31-Mar-21	0	1	<b>.</b>			21								
KTD.BC.1130	Installation of ELS and excavation for CHB1115.392 to CHB189.123 (90m ELS, 1860m3 exca, 2 teams)	29	26d	3d	01-Apr-21	10-May-21	01-Apr-21	10-May-21	0	1				đ								
KTD.BC.1140 KTD.BC.1150	Construction of RC box culbert structure for CBB1 115.392 to CHB1 89.123 (236m3, 2 teams)	42	39d 6d	3d 1d	30-Apr-21 22-Jun-21	21-Jun-21 29-Jun-21	30-Apr-21 22-Jun-21	21-Jun-21 29-Jun-21	0	1					T.							
KTD.BC.1160	Temporary drain. diversion (inclu temporary connection works and breakthrough at upstream) Construct the remaining RC structure within existing box culvert and abandon the existing box culvert	18	18d	0d	30-Jun-21	29-Juli-21 21-Jul-21	30-Jun-21	29-Juli-21 21-Jul-21	0	1	+							+				÷
KTD.BC.1170	Permanent drain. diversion (inclu connection works at upstream)	7	6d	1d	22-Jul-21	29-Jul-21	22-Jul-21	29-Jul-21	0	1					, <b>F</b>							
KTD.BC.1180	Backfilling from CHB1 115.392 to CHB1 89.123 (1050m3, 2 teams)	49	48d	4d	01-Jun-21	29-Jul-21	01-Jun-21	29-Jul-21	0	1				l	┝╺╋	┢						
KTD.BC.1190	Planned Completion of Box Culvert B1 (Related to Section 8)	0	0d	0d		29-Jul-21		29-Jul-21	0	1						<b>Y</b>						
MODIFICATIO	ON OF EXISTING SUBWAY KS10	1129			24-Nov-20	27-Dec-23	24-Nov-20	27-Dec-23	0			•				+		$\vdash$		-		
KTD.MS.0000	Liaison/coordinate with HyD structure/HyD lighting/EMSD and other utility and service undertakings	180	180d	0d	24-Nov-20	22-May-21	24-Nov-20	22-May-21	0	2		-										
KTD.MS.1010	Pre-driling works (1 no, 1 rig)	12	10d	2d	24-May-21	05-Jun-21	24-May-21	05-Jun-21	0	1			-									
KTD.MS.1020	Piling works for pre-bored H-piles (4 nos, 610dia x 75m, 1 rig)	48	42d	6d	07-Jun-21	03-Aug-21	07-Jun-21	03-Aug-21	0	1					F	•						
KTD.MS.1030	Installation of ELS for demolition of existing str. & construction of entrance at Road D1 (77m ELS, 900m3 exca, 1 teams)	39	33d	6d	04-Aug-21	17-Sep-21	04-Aug-21	17-Sep-21	0	1				ļ		-		ļ				
KTD.MS.1035	Demolition of existing subway structures (inclu. ramp and staircase)	78	64d	14d	18-Sep-21	21-Dec-21	18-Sep-21	21-Dec-21	0	1							F					
KTD.MS.1040	Construction of RC structures (inclu. lift shaft, staircase, pump house and etc.) (365m3, 1 team)	104	92d	12d	22-Dec-21	04-May-22	22-Dec-21	04-May-22		1												
KTD.MS.1045	Backfilling of ELS to ground level	78	64	14d	05-May-22	06-Aug-22	05-May-22	06-Aug-22		1										<b>-</b>		
KTD.MS.1050 KTD.MS.1060	Lift and other E&M installation, testing and commissioning Construction of roof, steelworks, other facilities and ABWF works	156 312	156d 300d	0d 12d	08-Aug-22	16-Feb-23	17-Feb-23	26-Aug-23	156 0	1												÷
KTD.MS.1000	Planned Completion of modification of existing Subway KS10 (Related to Section 3)	0	0d	0d	08-Aug-22	26-Aug-23 26-Aug-23	08-Aug-22	26-Aug-23 26-Aug-23	-	1												
KTD.MS.1070	Advance Completion of modification of existing Subway KS10 (Nealed to Section 3)	100	178d	0d 0d	28-Aug-23	-	28-Aug-23	20-Aug-23 27-Dec-23		1	+											
	FION OF DISTRICT COOLING SYSTEM WORKS (SUBJECTED TO EXCISION)	914	1700	ou	27-Mar-21	26-Sep-23	20-Aug-23	26-Sep-23	_	1					╇╋	<del>_</del> ++	╧╋	┝─┿╴	╘	<b></b>		-
KTD.DCS.1000	Liaison/coordinate with utility and service undertakings on connection works of DCS works	180	180d	0d	27-Mar-21	22-Sep-21	22-Nov-21	20-May-22		2				╘╸╧								
KTD.DCS.1010	Installation of ELS and excavation and construction of DCS pipes from CH80 to CH145 (2 teams)	91	79d	12d	23-Sep-21	12-Jan-22	24-Apr-23	11-Aug-23		1	+							<u>_</u>				
KTD.DCS.1020	Backfilling for CH80 to CH145 (780m3, 2 teams)	39	33d	6d	13-Jan-22	02-Mar-22	12-Aug-23	26-Sep-23		1							Π	•				
KTD.DCS.1030	Installation of ELS and excavation and construction of DCS pipes from CH170 to CH334 (2 teams)	208	194d	14d	23-Sep-21	09-Jun-22	21-May-22	01-Feb-23		1						_ L⊨≟	╡	╞╤				
KTD.DCS.1040	Backfilling for CH170 to CH334 (1900m3, 2 teams)	78	72d	6d	10-Jun-22	09-Sep-22	04-Mar-23	09-Jun-23	218	1	1								-	<b></b>		
KTD.DCS.1050	Installation of ELS and excavation of temporary pits for construction of DCS works from CH145 to CH170 (1 team)	78	66d	12d	10-Jun-22	09-Sep-22	02-Feb-23	09-May-23	192	1									<b>-</b>			
KTD.DCS.1060	Construction of chilled water pipes from CH145 to CH170 by trenchless method (inclu DAV and washout pit, 1 team)	78	64d	14d	13-Sep-22	14-Dec-22	10-May-23	11-Aug-23	192	1								ļ		<b>6</b>		<u></u>
	Backfilling for temporary pits (900m3, 2 teams)	39	33d	6d	15-Dec-22	04-Feb-23	12-Aug-23	26-Sep-23	192	1											·	+
KTD.DCS.1070	Installation of ELS and excavation and construction of DCS works from CH0 to CH80 (2 teams)	52	40d	12d	10-Jun-23	11-Aug-23	10-Jun-23	11-Aug-23	0	1												
KTD.DCS.1070 KTD.DCS.1080	installation of ELS and excavation and construction of DCS works from CH0 to CH00 (2 teams)					11-Sep-23	28-Aug-23	26-Sep-23	13	- 1	1111			1		1	- <b>H</b>	1 1	1 1			1
KTD.DCS.1080 KTD.DCS.1090	T&C of the installed DCS pipes before connection to existing DCS system	26	26d	0d	12-Aug-23					1	4.4.4	<u></u>			÷÷			ļ				
KTD.DCS.1080 KTD.DCS.1090 KTD.DCS.1100	T&C of the installed DCS pipes before connection to existing DCS system Backfilling for CH0 to CH80 (960m3, 2 teams)	39	33d	6d	12-Aug-23 12-Aug-23	26-Sep-23		26-Sep-23	0	1												
KTD.DCS.1080 KTD.DCS.1090 KTD.DCS.1100 KTD.DCS.1110	T&C of the installed DCS pipes before connection to existing DCS system Backfilling for CH0 to CH80 (960m3, 2 teams) Planned Completion of DCS works within Parts 1 and 1A (Related to Section 9)	39 0			12-Aug-23	26-Sep-23 26-Sep-23	12-Aug-23	26-Sep-23 26-Sep-23	0	1												
KTD.DCS.1080 KTD.DCS.1090 KTD.DCS.1100 KTD.DCS.1110 RENOVATION	T&C of the installed DCS pipes before connection to existing DCS system Backfilling for CH0 to CH80 (960m3, 2 teams) Planned Completion of DCS works within Parts 1 and 1A (Related to Section 9) N OF EXISTING SUBWAYS KS9 AND KS32	39 0 1153	33d Od	6d Od	12-Aug-23 31-Jul-20	26-Sep-23 26-Sep-23 26-Sep-23	12-Aug-23 31-Jul-20	26-Sep-23 26-Sep-23 26-Sep-23	0 0 0	1												
KTD.DCS.1080 KTD.DCS.1090 KTD.DCS.1100 KTD.DCS.1110 <b>RENOVATION</b> KTD.RS.1000	T&C of the installed DCS pipes before connection to existing DCS system Backfilling for CH0 to CH80 (960m3, 2 teams) Planned Completion of DCS works within Parts 1 and 1A (Related to Section 9) OF EXISTING SUBWAYS KS9 AND KS32 Liasion with UAP project and relevant departments for possession approval/consent	39 0 1153 365	33d 0d 365d	6d Od Od	12-Aug-23 31-Jul-20 31-Jul-20	26-Sep-23 26-Sep-23 26-Sep-23 30-Jul-21	12-Aug-23 31-Jul-20 31-Jul-20	26-Sep-23 26-Sep-23 26-Sep-23 30-Jul-21	0 0 0 0	1 1 1 2						9						
KTD.DCS.1080 KTD.DCS.1090 KTD.DCS.1100 KTD.DCS.1110 RENOVATION	T&C of the installed DCS pipes before connection to existing DCS system Backfilling for CH0 to CH80 (960m3, 2 teams) Planned Completion of DCS works within Parts 1 and 1A (Related to Section 9) N OF EXISTING SUBWAYS KS9 AND KS32	39 0 1153	33d 0d 365d 130d	6d 0d 0d 26d	12-Aug-23 31-Jul-20	26-Sep-23 26-Sep-23 26-Sep-23 30-Jul-21 08-Feb-22	12-Aug-23 31-Jul-20	26-Sep-23 26-Sep-23 26-Sep-23	0 0 0 0 0	1 1 1 2 1						, ,						

▼ Milestone
▼ Critical Milestone

Critical Work

Planned W...

Summary



ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area WORKS PROGRAMME (Page 4 of 5)

2023 JJASO	ND.	JFMAM	2024 JJJAS		JF	M	A M	2025 JJJA	SOND	20 J F M	)26 AM	1 I I
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		Nov-20	Revisi					LC		GC		
	1											

NTD Rs 108         Parent Completion of recording Subary K33 and K32 (Robust 1)         0         0         0         0         174by 2	
KTD R0400       Advance Compation of moviming Submity SUB in Specific Contract Compation Data (Sectors 1)       406       4000       40000       20       14Mang-20       358-poil       0       1         DUPENSING       Linkow additional diseased regarithme for streamed advanced extramality advanced in streamed in advanced extramality advanced in advanced extramality advanced in advanced extramality advanced in advanced extramality advancextramality advanc	
DDM CENSING OF EXISTING REISING MAIN AND ENDUCTION OF EXISTING 3 THE COLUME 3 AT SITE 202 at 223         458         158-200	
K1D 80.00       Liaba vdt heerd dyschreit for menval of backner monol mon	
KTD M100       Revised of standards motecycles and clearance for denotion works       14       146       22       16 Alevo 30       01 - Dace 30       0       1         KTD M100       batalistic of E.S and securities and securitis and securities and securities and securiti	
KTD RN 1000       Demolston elasting structures at 15 ko 22 and 2C3       (9.44e-21       0.24e-20       (9.44e-21       0.24e-21       0.44e-21       0.24e-21         KTD RN 1000       Construction of their integrame from CH1b to CH144 (400m EL9, 4(56m) area, 2, barm)       65       55       10.14e-21       10.4e-21       0.24e-21       0.24e-21 <td></td>	
KTD RM.100       Installation of LS. and examative for construction drive insign mains mole 106 constructin drive insis assesses insign mains mole 106 constructi	
KTD RM 102       Corated or them rising main mole blas Chiffé and connect to existing sensage rising main       104       96       64       04-un-21       07-Ox21       0       1         KTD RM 1000       Panete Completion of diversion and demotion or existing sensage rising main       0       <	
KTD NN 130       Backfill gowles and abandent besiding survage mining main       52       46       66       06	
KTD RM.190       Planed Completion of dwining and denoition of exing structures at the 252 and 252 and 252 mpl 252 (Peladet D Section 5)       0	
NTDRN 1050       Ablance Completion of diversion and denoition works in Specific Contract Completion Date (Section 5)       8       8       96       00       00-20-21       17.0e-21       00-20-21       17.0e-21       00-1         CONSTRUCTION OF ROAD WORKS       11720       1544690       21.0e-283       140400       27.0e-283       140-202       27.0e-283       10       27.0e-283       10       27.0e-283       10       27.0e-283       10       10       100       11.0e-21       00-202       20-202       100-202       100-202       100-202       100-202       100       <	
ECONSTRUCTION OF EROAD WORKS         120         31-M20         15-M203         126-W203         16-W203         16-W20	
CONSTRUCTION OF SLIP ROAD 514         1245         31-Jul 20         27-Dec 23         14-Oct 20         27-Dec 23         14-Oct 20         17-Dec 24         17-Dec 24<	
KTD RW 0000       Lision/coordinate with utility and service undertakings on diversion works (including CLP, DCS work and etc.)       180       180       60       31Mr20       25Br21       14Apr21       75       2         KTD RW: 1000       Expose and install probect/support system for existing underground utilities and services (incl 132X) and 400X/ cables)       104       86       62       22Apr2.1       14Apr21       77Abr2.1       60       1         KTD RW: 1000       Pinds quoks of pre-score H-pites (14 nos, 610dia arca, 30m3 conc, 1 team)       66       62       23Apr2.1       11Apr2.1       75.       2         KTD RW: 1000       Instalation of ELS and exoxation and construction for pile cap PC1 (60m3 exca, 30m3 conc, 1 team)       66       62       23Apr2.1       11Apr2.1       75.       2       1         KTD RW: 1000       Instalation of ELS and exoxation and construction for pile cap PC2 (60m3 exca, 30m3 conc, 1 team)       26       24d       10Abr2.1       23Abr2.2       14Abr2.2       60       1         KTD RW: 1000       Instalation of ELS and exoxation and construction for pile cap PC2 (60m3 exca, 30m3 conc, 1 team)       26       24d       40       30Abr2.1       12Abr2.2       14Abr2.2       60       1         KTD RW: 1000       Instalation of ELS and exoxation and constructins pile cap PC2 (60m3 exca, 30m3 eocc, 2 team)	
KTD RW.100       Epsee and install protectiseport system for existing underground utilities and services (ind 132kV and 400kV cables)       104       9d       6d       21-0-22       25-Fi-21       02-Jap-21       11-Jap-21       60       11         KTD RW.100       Pre-drilling works for all pile cass PC1 ib PC7 (9no. 1rg)       400       30d       10d       27-Fib-21       22-Apr-21       18-May-21       06-Jul-21       23-Out-21       06-Jul-21       23-Out-21       06-Jul-21       23-Out-21       06-Jul-21       23-Out-21       06-Jul-21       23-Out-21       07-Jul-21       23-Out-21       07-Jul-21       23-Out-21       08-Jul-21       24-Out-21       11-Jul-22       02-Jul-21       23-Out-21       02-Jul-21       23-Out-21       02-Jul-21       23-Out-21       02-Jul-21       23-Out-21       02-Jul-21       23-Out-21       02-Jul-21       02-Jul-22       02-Jul-21       02-Jul-22       02-Jul-21       02-Jul-22       02-Jul-22       02-Jul-22       02-Jul-22       02-Jul-21       04-Jul-22       02-Jul-22	
KTD RW.100       Pre-driling works for all pile caps PC1 to PC7 (9 nos, 1 rg)       40       30d       10d       27-Feb-21       22-Apr-21       14Alg-21       60       1         KTD RW.1000       Primg works for all pile caps PC1 to PC7 (9 nos, 1 rg)       61       64       23-Apr-21       11-Aug-21       07-Aul-21       23-Ocl-21       60       1         KTD RW.1000       Instaltation of lesisting barding works for all pile caps PC1 (90m3 exea, 30m3 conc, 1 team)       26       24d       20       20-Ocl-21       24-Alv-21       11-Abr-22       60       1         KTD RW.1060       Instaltation of lesisting barding works for all pile caps PC1 (90m3 exea, 30m3 conc, 1 team)       26       24d       20       30-Ocl-21       24-Alv-21       14-Bar-22       60       1         KTD RW.1060       Instaltation of lesisting barding works for all pile caps PC1 (90m3 exea, 30m3 conc, 1 team)       26       24d       20       30-Ocl-21       12-Alv-22       14-Bar-22       60       1         KTD RW.1060       Instaltation of Lesisting barding dor barding works for all pile caps PC1 (90m3 exea, 30m3 conc, 1 team)       26       24d       20       30-Ocl-21       12-Alv-22       24-Alv-22       60       1         KTD RW.1060       Instaltation of Lesisting barding dor barding works for all pile caps PC1 (90m3, exea, 30m3 conc, 1 team)       26 <td></td>	
KTD RW.1020       Pling works of pre-bored H-plas (14 nos, 610dia x 70m, 1 rg)       91       85d       6d       23-Apr-21       11-Aug-21       07-Aug-21       23-Abr-23       60       1         KTD RW.1020       Instalation of ELS and accavation and construction for plic aps PC1 (60m3 acca, 30m3 conc, 1 team)       26       24d       2d       10-Sep-21       25-Abr-21       23-Abr-23       60       1         KTD RW.1050       Demotifies of existing bearing wall       26       24d       2d       30-Abr-21       12-Abr-22       60       1         KTD RW.1050       Instalation of ELS and accavation and constructures (incl columns, portal beams and eL) (169m3, 1 team)       26       24d       2d       30-Abr-21       15-Feb-22       16-Mar-22       74-Mar-22	
KTD RW.1030       Instalation of ELS and excavation and construction for pie cap PC1 (60m3 exca, 30m3 conc, 1 team)       26       24d       2d       12-Aug-21       10-Sap-21       25-Oct-21       23-Nov-21       11-Jan-22       60       1         KTD RW.1040       Construction of temporary supporting system for existing bridge K73       39       34       6d       11-Sap-21       22-Oct-21       23-Nov-21       11-Jan-22       60       1         KTD RW.1060       Instalation of ELS and excavation and construction for pie cap PC2 (60m3 exca, 30m3 conc, 1 team)       26       24d       2d       30-Nov-21       15-Fab-22       16-Mar-22       23-May-21       23-May-22       13-Mar-22       23-May-22       23-	
KTD RW 1040       Construction of texting bearing vall       Sd       11 - Sep-21       24 - Nov-21       11 - Jan-22       60       1         KTD RW 1050       Demolition of existing bearing vall       26       24d       2d       30-0ct-21       29 - Nov-21       12 - Jan-22       14 - Feb-22       60       1         KTD RW 1050       Installation of existing bearing vall       26       2dd       30-0ct-21       29 - Nov-21       12 - Jan-22       14 - Feb-22       60       1         KTD RW 1050       Construction of existing bearing vall       Construction of existing bearing vall       26       4dd       03 - Jan-22       17 - Mar-22       23 - May-22       60       1	
KTD RW.1050       Demolition of existing barling wal       26       24d       2d       30-Oct-21       29-Nov-21       12-Jan-22       14-Fab-22       60       1         KTD RW.1050       Installation of ELS and excavation and construction for pic cap PC2 (60m 3 exca, 30m 3 conc, 1 team)       52       48d       4d       03-loc-21       15-Fab-22       16-Mar-22       28-Mar-22       29-Mar-22       29-Mar	
KTD RW.1060       Installation of ELS and excavation and construction for pile cap PC2 (60m3 exca, 30m3 conc, 1 team)       26       24d       2d       30-Nov-21       15-Feb-22       16-Mar-22       06       1         KTD RW.1070       Construction of remaining foundation and pier structures (incl. columns, portal beams and etc.) (169m3, 1 team)       39       4d       6d       08-Mar-22       07-Mar-22       23-May-22       60       1         KTD RW.1090       Construction of creatinery structures (incl. columns, portal beams and etc.) (169m3, 1 team)       39       4d       6d       08-Mar-22       27-Mar-22       23-May-22       60       1         KTD RW.1090       Backfiling for pile cap (PC1 and PC2)       In-Mar-24       07-Mar-22       25-May-22       10-May-22       26-Mov-22       60       1         KTD RW.1100       Instalation of ELS and excavation for Retaining Wall S14 (Bay-5-12, 3000m3 exca, 2 team)       104       17/2       10-May-22       15-Mov-22       10-May-22       16-Mov-22       15-Mov-24       60       1         KTD RW.1100       Instalation of ELS and excavation for Retaining Wall S14 (Bay-5-12, 3000m3 exca, 2 team)       104       12d       0-May-22       21-Mov-23       0       1         KTD RW.1100       Backfiling for Retaining Wall S14 (Bay-6-12, 100m3, 2 teams)       18d       17/2       10-May-23 <td></td>	
KTD.RW.1070       Construction of remaining foundation and pier structures (incl. columns, portal beams and etc.) (169m3, 1 team)       52       48d       4d       03-Jan-22       17-Mar-22       23-May-22       60       1         KTD.RW.1080       Construction of remaining foundation and pier structures (incl. columns, portal beams and etc.) (169m3, 1 team)       39       34d       5d       08-Mar-22       26-Apr-22       24-May-22       09-Jul-22       60       1         KTD.RW.1090       Backfilling for pile caps (PC1 and PC2)       Construction of Retaining Wall S14 (Bay-512, 3600m3 exca, 2 team)       90       78d       12d       04-May-23       28-May-22       15-Jul-23       60       1         KTD.RW.1100       Installation of ELS and excavation for Retaining Wall S14 (Bay-512, 3600m3 exca, 2 team)       90       78d       12d       04-May-23       17-Jul-23       01       1         KTD.RW.1100       Installation of ELS and excavation and construction of pie caps (PC1-7).11/Um3 exca, 800m3 conc, 2 teams)       10d       116d       14d       10-Nov-22       21-Apr-23       04-In-23       0       1         KTD.RW.1130       Piling works for bored piles (20 nos, 1200ia x 70m, 2 1 segs)       10d       10-Nov-22       21-Apr-23       04-In-23       0       1         KTD.RW.1130       Construction of Retaining Wall S14 (Bay1-4, 460m3, 2 teams)	
KTD.RW.1080       Construction of catilitieves slab extended from ext. bridge K73 (150m3, 1 team)       39       34       5d       08-Mar-22       26-Apr-22       24-May-22       09-Jul-22       60       1 <td></td>	
KTD.RW.1090       Backfilling for pile caps (PC1 and PC2)       26       2d       2d       2r.Apr.22       28.May-22       11-Jul-22       09.Aug-22       60       1         KTD.RW.1100       Instalation of ELS and excavation for Retaining Wall S14 (Bay5-12, 3600m3 exca, 2 teams)       90       76d       12d       30.May-22       15-Sep-22       10-Aug-22       26-Nov-22       60       1         KTD.RW.1110       Construction of Retaining Wall S14 (Bay5-12, 3600m3, 2 teams)       184       172d       12d       16-Sep-22       30.May-22       17-Jul-23       00       1         KTD.RW.11100       Daskfilling for Retaining Wall S14 (Bay5-12, 100m3, 2 teams)       90       78d       12d       04.May-22       14-Aug-23       04       1       0         KTD.RW.11100       Backfilling for Retaining Wall S14 (Bay6-12, 1100m3, 2 teams)       100       116d       14d       04-Mov-22       21-Apr-23       04       1       0       1         KTD.RW.11100       Instalation of ELS and excavation and construction of pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)       52       48d       4d       22-Apr-23       14-Ju-23       0       1         KTD.RW.1160       Construction of Retaining Wall S14 (Bay1-4, 400m3, 2 teams)       32       26d       6d       11-Aug-23       16-Aug-23 <td< td=""><td></td></td<>	
KTD.RW.1100       Instalation of ELS and excavation for Retaining Wall S14 (Bay5-12, 3600m3 exca, 2 teams)       90       78d       12d       30-May-22       15-Sep-22       10-Aug-22       26-Nov-22       60       1         KTD.RW.1110       Construction of Retaining Wall S14 (Bay5-12, 3000m3, 2 teams)       184       172d       12d       16-Sep-22       03-May-23       28-Nov-22       15-Jul-23       60       1         KTD.RW.1100       Philing for Retaining Wall S14 (Bay5-12, 100m3, 2 teams)       90       78d       12d       04-May-23       17-Jul-23       01-Nov-23       60       1         KTD.RW.1100       Philing works for bord piles (20 nos, 1200dia x 70m, 2 rigs)       130       116d       14d       01-Nov-23       24-Apr-23       0       1         KTD.RW.1140       Instalation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)       52       48d       4d       22-Apr-23       24-Jun-23       10-Aug-23       26-Jun-23       10-Aug-23       26-Jun-23       10-Aug-23       26-Jun-23       10-Aug-23       26-Jun-23       10-Aug-23       26-Sep-23       11-Aug-23       16-Sep-23       0       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1<	
KTD.RW.1110       Construction of Retaining Wall S14 (Bays-12, 800m3, 2 teams)       184       172d       12d       16-Sep-22       03-May-23       28-Nov-22       15-Jul-23       60       1         KTD.RW.1120       Backfilling for Retaining Wall S14 (Bays-12, 100m3, 2 teams)       90       78d       12d       04-May-23       19-Aug-23       17-Jul-23       01-Nov-23       60       1         KTD.RW.1130       Piling works for bored piles (20 nos, 1200dia x 70m, 2 rigs)       130       116d       14d       10-Nov-22       21-Apr-23       24-Jun-23       0       1         KTD.RW.1140       Instalation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)       52       48d       4d       22-Apr-23       24-Jun-23       0       1         KTD.RW.1150       Construction of Retaining Wall S14 (Bay1-4, 460m3, 2 teams)       32       26d       6d       11-Aug-23       16-Sep-23       0       1         KTD.RW.1160       Construction of Bridge S14 decking structures (320m3, 1 teams)       32       26d       6d       11-Aug-23       16-Sep-23       0       1         KTD.RW.1180       Backfilling for Retaining Wall S14 (Bay1-7, 1800m3, 2 teams)       36       32d       4d       18-Sep-23       01-Nov-23       10       1         KTD.RW.	
KTD.RW.1120       Backfilling for Retaining Wall S14 (Bay8-12, 1100m3, 2 teams)       90       78d       12d       04-May-23       19-Aug-23       17-Jul-23       01-Nov-23       60       1         KTD.RW.1130       Piling works for bored piles (20 nos, 1200dia x 70m, 2 rigs)       130       116d       14d       10-Nov-22       21-Apr-23       0       1         KTD.RW.1140       Instalation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)       52       48d       4d       22-Apr-23       24-Jun-23       0       1         KTD.RW.1150       Construction of Retaining Wall S14 (Bay1-4, 460m3, 2 teams)       39       21d       2d       26-Jun-23       10-Aug-23       26-Jun-23       0       1         KTD.RW.1160       Construction of bridge S14 decking structures (320m3, 1 teams)       32       26d       6d       11-Aug-23       16-Sep-23       11-Aug-23       16-Sep-23       0       1         KTD.RW.1170       Prestressing works and bearing installation works       26       2dd       2d       18-Sep-23       01-Nov-23       0       1       1         KTD.RW.1180       Backfilling for Retaining Wall S14 (Bay1-7, 1800m3, 2 teams)       36       32d       4d       18-Sep-23       01-Nov-23       0       1         KTD.R	
KTD.RW.1130       Piling works for bored piles (20 nos, 1200dia x 70m, 2 rigs)       130       116d       14d       10-Nov-22       21-Apr-23       0       1         KTD.RW.1130       Instalation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)       52       48d       4d       22-Apr-23       24-Jun-23       0       1         KTD.RW.1140       Instalation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)       39       21d       2d       26-Jun-23       10-Aug-23       26-Jun-23       10       1	
KTD.RW.1140       Installation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)       52       48d       4d       22-Apr-23       24-Jun-23       0       1         KTD.RW.1150       Construction of Retaining Wall S14 (Bay1-4, 460m3, 2 teams)       39       21d       2d       26-Jun-23       10-Aug-23       26-Jun-23       10-Aug-23       0       1         KTD.RW.1160       Construction of bridge S14 decking structures (320m3, 1 teams)       32       26d       6d       11-Aug-23       16-Sep-23       11-Aug-23       16-Sep-23       0       1         KTD.RW.1170       Prestressing works and bearing installation works       26       24d       2d       18-Sep-23       01-Nov-23       29-Sep-23       01-Nov-23       10       11         KTD.RW.1190       Construction of road pavement, road marking, street and other facilities       36       32d       4d       18-Sep-23       01-Nov-23       27-Dec-23       0       11         KTD.RW.1190       Construction of Slip Road S14 (Related to Section 3)       0       0d       0d       0d       0d       0d       0d       0d       14       85-Sep-23       01-Nov-23       27-Dec-23       0       11         KTD.RW.1200       Planned Completion of Slip Road S14 (Related to Section 3) <t< td=""><td></td></t<>	
KTD.RW.1150       Construction of Retaining Wall S14 (Bay1-4, 460m3, 2 teams)       39       21d       2d       2d-Jun-23       10-Aug-23       2d-Jun-23       10-Aug-23       0       1	
KTD.RW.1160       Construction of bridge S14 decking structures (320m3, 1 teams)       32       26d       6d       11-Aug-23       16-Sep-23       11-Aug-23       16-Sep-23       0       1         KTD.RW.1170       Prestressing works and bearing installation works       26       24d       2d       18-Sep-23       19-Oct-23       29-Sep-23       01-Nov-23       10       1         KTD.RW.1180       Backfilling for Retaining Wall S14 (Bay 1-7, 1800m3, 2 teams)       36       32d       4d       18-Sep-23       01-Nov-23       18-Sep-23       01-Nov-23       0       1         KTD.RW.1190       Construction of road pavement, road marking, street and other facilities       46       39d       7d       02-Nov-23       27-Dec-23       0       1         KTD.RW.1200       Planned Completion of Slip Road S14 (Related to Section 3)       0       0d       0d       0d       27-Dec-23       0       1         KTD.RW.1200       Planned Completion of Slip Road S14 (Related to Section 3)       0       0d       0d       0d       0d       27-Dec-23       0       1         KTD.RW.1200       Construct roadwork, UUs/services & landscape softworks within Part 1 (incl Road L9 and part of Road L16)       1688       01-Sep-20       15-Apr-25       12-Sep-23       08       1       1       1 <td></td>	
KTD.RW.1170       Prestressing works and bearing installation works       26       24       2d       18-Sep-23       01-Nov-23       10       1         KTD.RW.1170       Prestressing works and bearing installation works       36       32d       4d       18-Sep-23       01-Nov-23       0       1         KTD.RW.1180       Backfilling for Retaining Wall S14 (Bay 1-7, 1800m3, 2 teams)       36       32d       4d       18-Sep-23       01-Nov-23       0       1         KTD.RW.1190       Construction of road pavement, road marking, street and other facilities       46       39d       7d       02-Nov-23       27-Dec-23       0       1         KTD.RW.1200       Planned Completion of Silp Road S14 (Related to Section 3)       0       0d       0d       0d       27-Dec-23       0       1         CONSTRUCTION OF ROADS D1, L9, L16, PEDESTRIAN STREETS AND OPEN SPACES       1688       01-Sep-20       15-Apr-25       12-Sep-20       30-Jun-25       76         KTD.RW.1200       Construct roadwork, UUs/services & landscape softworks within Part 1 (incl Road L9 and part of Road L16)       563       542d       21d       30-Jun-23       02-Nov-23       78       1	
KTD.RW.1180       Backfiling for Retaining Wall S14 (Bay 1-7, 1800m3, 2 teams)       36       32d       4d       18-Sep-23       01-Nov-23       0       1         KTD.RW.1190       Construction of road pavement, road marking, street and other facilities       46       39d       7d       02-Nov-23       27-Dec-23       02       1         KTD.RW.1200       Planned Completion of Slip Road S14 (Related to Section 3)       0       0d       0d       0d       0d       27-Dec-23       0       1         KTD.RW.1200       Construct roadwork, UUs/services & landscape softworks within Part 1 (incl Road L9 and part of Road L16)       1688        01-Sep-20       15-Apr-25       12-Sep-23       03-U       1        I <thi< th="">       I</thi<>	
KTD.RW.1190       Construction of road pavement, road marking, street and other facilities       46       39d       7d       02-Nov-23       27-Dec-23       0       1         KTD.RW.1200       Planned Completion of Slip Road S14 (Related to Section 3)       0       0d       0d       0d       27-Dec-23       0       1         CONSTRUCTION OF ROADS D1, L9, L16, PEDESTRIAN STREETS AND OPEN SPACES       1688       •       01-Sep-20       15-Apr-25       12-Sep-20       30-Jun-25       76       •         KTD.RW.1200       Construct roadwork, UUs/services & landscape softworks within Part 1 (incl Road L9 and part of Road L16)       563       542d       21d       30-Jul-21       26-Jun-23       02-Nov-23       78       1       •	
KTD.RW.1200       Planned Completion of Slip Road S14 (Related to Section 3)       0       0d       0d       0d       0d       27-Dec-23       0       1         CONSTRUCTION OF ROADS D1, L9, L16, PEDESTRIAN STREETS AND OPEN SPACES       1688       •       0       0d       0d       0d       0d       15-Apr-25       12-Sep-20       30-Jun-25       76       • <t< td=""><td></td></t<>	
CONSTRUCTION OF ROADS D1, L9, L16, PEDESTRIAN STREETS AND OPEN SPACES       1688       1688       15-Apr-25       12-Sep-20       30-Jun-25       76       1         KTD.RW.1220       Construct roadwork, UUs/services & landscape softworks within Part 1 (incl Road L9 and part of Road L16)       563       542       21d       30-Jul-21       26-Jun-23       22-Nov-21       26-Sep-23       78       1	
KTD.RW.1220 Construct roadwork, UUs/services & landscape softworks within Part 1 (incl Road L9 and part of Road L16) 563 542d 21d 30-Jul-21 26-Jun-23 02-Nov-21 26-Sep-23 78 1	
	·
KTD.RW.1200 Construct underground utilities/services within Parts 1B, 6A and 7 and remaining works of all Parts 1321 1300d 21d 20-Oct-20 15-Apr-25 02-Jan-21 30-Jun-25 60 1	
KTD.RW.1249 Consude and eigenvices within Parts D, over and remaining works of an Parts and Crowd Dispersal Route 122 122 0d 01 01-Sep-20 31-Dec-20 12-Sep-20 11-Jan-21 11 2	
KTD.RW.1243         Easibility of the result of the re	
KTD.RW.1200       Construct underground utilities/services within Part 3         275       254       21d       02-Jan-21       08-Dec-21       12-Jan-21       17-Dec-21       8       1	
K1D.KW.1200       Construct roadwork and landscape softworks within Part 3 (incl pedestrian streets)       342       321d       21d       09-Dec-21       08-Feb-23       29-Dec-22       24-Feb-24       310       1	
KTD:RW.1210       Construct underground utilities/services within Part 4       156       135d       21d       23-Nov-20       09-Jun-21       12-Dec-20       30-Jun-21       17       1	
KTD.RW.1290       Construct roadwork and landscape softworks within Part 4 (incl pedestrian street)       156       135d       21d       10-Jun-21       14-Dec-21       17-Aug-23       24-Feb-24       647       1	
KTD.RW.1300         Construct roadwork, underground utilities/services within Part 5         312         291         211         10-bec/21         17-bec/21         27-bec/22         28-box/23         27-bec/23         23         1	
KTD.RW.1310 Liasion with developer of the sites 2A4, 2A5(B) and 2A10 and construction of drainage and sewage works within Part 6 156 135d 21d 23-Dec-23 08-Jul-24 15-Mar-24 23-Sep-24 65 1	
KTD.RW.1320       Construct roadwork, remaining UUs/services and landscape softworks within Part 6 (incl remaining Road L16)       222       201d       21d       09-Jul-24       03-Apr-25       24-Sep-24       30-Jun-25       65       1	
PROJECT ESTABLISHMENT WORKS         1571         15-Dec-21         03-Apr-26         27-Sep-23         30-Jun-26         88         2	·
KTD.EW.1000         Establishment works for all landscape softworks (except Parts 3, 4 and 6)         365         365d         0d         12-Dec-23         10-Dec-24         28-Dec-24         16         2           KTD.EW.1010         Establishment works for landscape softworks within Part 3 (Subj to excision within 416 days)         365         365d         0d         09-Feb-23         08-Feb-24         26-Feb-25         382         2	
KTD.EW.1010       Establishment works for landscape softworks within Part 3 (Study to excision within 416 days)       365       365d       0d       09-Feb-24       26-Feb-24       24-Feb-25       803       2	
KTD.EW.1020         Establishment works for landscape softworks within Part 4 (study to excision within 244 days)         365         365d         0d         19-Det-22         20-PeD-24         24-PeD-23         003         2           KTD.EW.1030         Establishment works for landscape softworks within Part 6         365         365d         0d         04-Apr-25         03-Apr-26         01-Jul-25         30-Jun-26         88         2	
KTD.EW.1050         Planned Contract Completion Date         0         0d         0d         03-Apr-26         88         2         1	

▼ Milestone  $\nabla$ 

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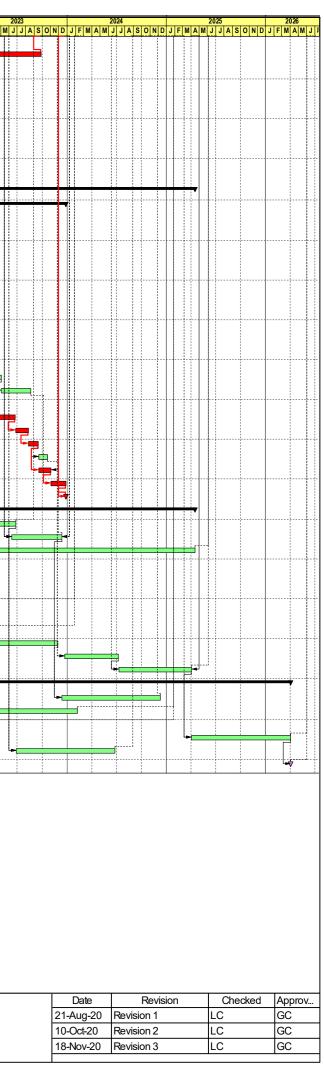
Critical Work

Critical Milestone 

Planned W...

Summary





# **Appendix C – Weather information**

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)	Mean Relative Humidity (%)	Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)	Mean Relative Humidity (%)
01/11/2022	18.9	25.3	4.5	64	01/12/2022	14.8	18.4	Trace	72
02/11/2022	18.9	21.5	23.7	86	02/12/2022	13.6	19.4	0	69
03/11/2022	20.9	23.2	58.1	93	03/12/2022	16.9	21.5	0	73
04/11/2022	21.9	24	4	87	04/12/2022	19.9	23.3	0	74
05/11/2022	20.8	22.2	Trace	79	05/12/2022	15.7	20.7	0	66
06/11/2022	19.3	22.5	6.6	84	06/12/2022	14.9	19.8	0	68
07/11/2022	19.7	23.5	1.6	85	07/12/2022	16.6	21.5	Trace	68
08/11/2022	20.6	23.7	7.7	85	08/12/2022	17.7	22.6	0	72
09/11/2022	21.6	26.7	0	77	09/12/2022	17.4	22.7	0	67
10/11/2022	23	27.9	0	78	10/12/2022	15.6	21.6	0	61
11/11/2022	23.5	28.1	0	77	11/12/2022	15.3	19.0	0	60
12/11/2022	23.3	26.8	Trace	79	12/12/2022	15.0	18.0	Trace	61
13/11/2022	22.9	28.5	0	81	13/12/2022	12.9	16.7	3.2	71
14/11/2022	23.2	25.7	0	79	14/12/2022	11.5	13.1	8.7	91
15/11/2022	23.4	26	0	78	15/12/2022	12.3	16.2	3.8	91
16/11/2022	23.2	25.8	0	80	16/12/2022	15.1	18.2	0.9	90
17/11/2022	22.9	27.2	0	80	17/12/2022	11.8	15.1	9.1	60
18/11/2022	23.1	26.9	0	80	18/12/2022	9.4	13.8	Trace	30
19/11/2022	23.7	27.6	0	77	19/12/2022	10.6	16.6	0	50
20/11/2022	23.3	27.5	0	78	20/12/2022	14.7	19.2	0	71
21/11/2022	23.1	25.3	0.5	78	21/12/2022	15.5	19.8	Trace	46
22/11/2022	22.3	24.1	2.5	86	22/12/2022	13.9	20.3	0	35
23/11/2022	22.5	24.8	3.4	91	23/12/2022	14.7	20.2	0	40
24/11/2022	21.4	22.6	9.6	93	24/12/2022	14.4	20.1	0	49
25/11/2022	21.3	23.4	4.8	92	25/12/2022	14.1	18.5	0	59
26/11/2022	21.7	23.6	0.5	88	26/12/2022	14.3	18.8	0	65
27/11/2022	22.1	23.7	1.9	90	27/12/2022	14.9	18.8	0	70
28/11/2022	23.4	28.6	1.4	88	28/12/2022	14.7	20.6	0	68
29/11/2022	24.3	27.8	0	85	29/12/2022	14.5	18.9	Trace	60
30/11/2022	18.3	26.1	0	82	30/12/2022	12.4	17.3	0	62
OTE1: The abo	ve weather informat	tion was obtained f	rom manned wea	ther station of	31/12/2022	12.0	18.7	0	65
	ans rainfall less that				NOTE1: The above Hong Kong Obser	ve weather informat vatory.	tion was obtained f	from manned wea	ther station
tps://www.hko.g	ov.hk/en/cis/dailyEx	ktract.htm?y=20228	<u>km=11</u>			ans rainfall less than			
					https://www.hko.g	ov.hk/en/cis/dailyEx	xtract htm?v=20228	km=12	

#### General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)	Mean Relative Humidity (%)
01/01/2023	14.5	19.3	0.1	65
02/01/2023	17.2	21.6	Trace	65
03/01/2023	16.1	19.2	Trace	69
04/01/2023	15.8	19.9	Trace	74
05/01/2023	16.8	21.4	0	77
06/01/2023	17	23.4	0	62
07/01/2023	17.9	21.3	0	59
08/01/2023	17	20	Trace	57
09/01/2023	18.2	21.4	0.1	72
10/01/2023	17.6	19	5.5	91
11/01/2023	17	19.1	3.2	87
12/01/2023	17.5	19.6	0.5	88
13/01/2023	18.9	23.9	4.5	93
14/01/2023	20	24.7	3.4	90
15/01/2023	13	21.6	Trace	80
16/01/2023	11.3	13.2	0	66
17/01/2023	11	15.2	0	71
18/01/2023	11.5	17.1	0	58
19/01/2023	13.3	18.7	0	63
20/01/2023	15.9	20.9	Trace	62
21/01/2023	16	18.8	Trace	79
22/01/2023	16.6	22.4	0.6	83
23/01/2023	16.9	21.1	0	86
24/01/2023	12	18.7	0.3	51
25/01/2023	10.6	14.4	0	54
26/01/2023	13	18.6	0	66
27/01/2023	12.4	17.3	0	46
28/01/2023	10.6	15.7	0	28
29/01/2023	9.8	16	0	35
30/01/2023	11.7	18.8	0	48
31/01/2023	13.8	20.1 ation of Hong Kong Ob	0	61

NOTE2: Trace means rainfall less than 0.05 mm

https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2023&m=01

### Kai Tak Runway Park Information

Date	Absolute Daily Min	Absolute Daily Max	Date	Absolute Daily Min	Absolute Daily Max
	Temperature (°C)	Temperature (°C)		Temperature (°C)	Temperature (°C)
01/11/2022	19.0	25.2	01/12/2022	14.5	19.0
02/11/2022	19.4	22.3	02/12/2022	13.4	20.6
03/11/2022	21.1	23.3	03/12/2022	16.4	23.7
04/11/2022	21.9	24.3	04/12/2022	19.9	25.5
05/11/2022	20.5	22.0	05/12/2022	15.3	20.5
06/11/2022	19.2	23.5	06/12/2022	14.6	20.8
07/11/2022	19.7	24.0	07/12/2022	16.7	22.3
08/11/2022	20.8	24.8	08/12/2022	17.8	23.4
09/11/2022	21.7	27.1	09/12/2022	17.2	24.6
10/11/2022	22.9	28.2	10/12/2022	15.2	23.6
11/11/2022	23.4	28.4	11/12/2022	15.0	19.4
12/11/2022	22.9	27.4	12/12/2022	14.9	19.0
13/11/2022	22.4	27.6	13/12/2022	12.7	17.3
14/11/2022	23.0	25.1	14/12/2022	11.6	13.8
15/11/2022	23.4	25.7	15/12/2022	12.7	16.8
16/11/2022	22.8	25.8	16/12/2022	15.5	18.6
17/11/2022	22.6	27.4	17/12/2022	12.2	15.5
18/11/2022	23.0	27.3	18/12/2022	9.2	15.0
19/11/2022	23.4	27.7	19/12/2022	10.6	17.7
20/11/2022	22.9	27.5	20/12/2022	14.6	20.3
21/11/2022	22.8	24.9	21/12/2022	16.2	21.1
22/11/2022	22.3	24.7	22/12/2022	13.9	21.9
23/11/2022	22.3	24.4	23/12/2022	14.7	21.2
24/11/2022	21.4	22.6	24/12/2022	14.4	21.6
25/11/2022	21.2	23.2	25/12/2022	13.6	18.7
26/11/2022	21.6	23.7	26/12/2022	13.8	18.7
27/11/2022	22.0	23.4	27/12/2022	14.4	19.1
28/11/2022	23.2	28.7	28/12/2022	14.4	21.9
29/11/2022	23.8	27.4	29/12/2022	14.2	20.0
30/11/2022	18.6	28.3	30/12/2022	12.0	18.6
	er information was obtained fro		31/12/2022	11.4	20.2
ai Tak Runway Park.				r information was obtained fro	om manned weather station
-	history chart.php?date=2022-1	1-01&chart_type=DG_TEMP	Kai Tak Runway Park.		
100.111 TOHO.IIK/IIK W CAULCI/	instory_chart.php:tdate -2022-1	i orcentart_type DO_TEMI		istory chart.php?date=2022-1	2-01&chart type=DG TEM

### Kai Tak Runway Park Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)
01/01/2023	14.6	20.2
02/01/2023	17.5	21.8
03/01/2023	16.2	19.6
04/01/2023	15.9	20.1
05/01/2023	16.6	20.8
06/01/2023	16.8	25.4
07/01/2023	18.1	21.4
08/01/2023	16.2	19.8
09/01/2023	18.0	21.4
10/01/2023	17.4	18.7
11/01/2023	16.9	19.2
12/01/2023	17.5	19.4
13/01/2023	18.6	23.7
14/01/2023	19.0	26.1
15/01/2023	12.7	22.3
16/01/2023	11.3	13.5
17/01/2023	11.0	15.5
18/01/2023	11.5	19.0
19/01/2023	13.3	20.0
20/01/2023	15.8	22.0
21/01/2023	15.8	18.0
22/01/2023	16.5	20.9
23/01/2023	16.6	21.1
24/01/2023	11.9	18.8
25/01/2023	10.0	14.2
26/01/2023	12.6	18.4
27/01/2023	12.2	17.4
28/01/2023	10.5	16.3
29/01/2023	9.4	16.8
30/01/2023	11.4	18.6
31/01/2023	13.6	20.2

NOTE1: The above weather information was obtained from manned weather station of Kai Tak Runway Park. https://i-lens.hk/hkweather/history\_chart.php?date=2023-01-01&ch24art\_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
01/11/2022	0:00	1.3	112.5	02/11/2022	0:00	1.3	11.5	03/11/2022	0:00	0.4	112.5	04/11/2022	0:00	1.3	112.5
01/11/2022	1:00	1.3	112.5	02/11/2022	1:00	0.9	112.5	03/11/2022	1:00	0.9	45	04/11/2022	1:00	1.8	90
01/11/2022	2:00	1.8	45	02/11/2022	2:00	0.9	45	03/11/2022	2:00	0.9	90	04/11/2022	2:00	1.3	90
01/11/2022	3:00	1.3	157.5	02/11/2022	3:00	1.3	112.5	03/11/2022	3:00	1.3	112.5	04/11/2022	3:00	2.2	45
01/11/2022	4:00	1.8	90	02/11/2022	4:00	0.9	90	03/11/2022	4:00	0.9	112.5	04/11/2022	4:00	1.3	45
01/11/2022	5:00	1.8	90	02/11/2022	5:00	1.3	45	03/11/2022	5:00	0.9	90	04/11/2022	5:00	2.2	45
01/11/2022	6:00	2.2	45	02/11/2022	6:00	0.9	112.5	03/11/2022	6:00	1.3	135	04/11/2022	6:00	1.3	112.5
01/11/2022	7:00	1.3	112.5	02/11/2022	7:00	1.3	112.5	03/11/2022	7:00	0.4	112.5	04/11/2022	7:00	1.8	112.5
01/11/2022	8:00	1.3	112.5	02/11/2022	8:00	1.3	45	03/11/2022	8:00	0.4	90	04/11/2022	8:00	1.3	135
01/11/2022	9:00	0.9	90	02/11/2022	9:00	1.8	45	03/11/2022	9:00	0.4	112.5	04/11/2022	9:00	2.2	135
01/11/2022	10:00	0.9	112.5	02/11/2022	10:00	0.9	45	03/11/2022	10:00	0.9	90	04/11/2022	10:00	1.8	135
01/11/2022	11:00	0.9	337.5	02/11/2022	11:00	0.9	45	03/11/2022	11:00	0.9	112.5	04/11/2022	11:00	2.2	112.5
01/11/2022	12:00	1.3	45	02/11/2022	12:00	1.3	90	03/11/2022	12:00	0.4	90	04/11/2022	12:00	1.3	112.5
01/11/2022	13:00	0.9	67.5	02/11/2022	13:00	0.9	112.5	03/11/2022	13:00	0.9	112.5	04/11/2022	13:00	1.3	90
01/11/2022	14:00	0.0	112.5	02/11/2022	14:00	0.9	112.5	03/11/2022	14:00	0.4	112.5	04/11/2022	14:00	1.8	45
01/11/2022	15:00	1.3	90	02/11/2022	15:00	1.8	45	03/11/2022	15:00	0.4	90	04/11/2022	15:00	0.9	112.5
01/11/2022	16:00	1.8	112.5	02/11/2022	16:00	1.3	112.5	03/11/2022	16:00	0.4	112.5	04/11/2022	16:00	1.3	112.5
01/11/2022	17:00	1.3	112.5	02/11/2022	17:00	45	90	03/11/2022	17:00	0.4	90	04/11/2022	17:00	0.9	135
01/11/2022	18:00	0.9	90	02/11/2022	18:00	1.3	112.5	03/11/2022	18:00	0.4	45	04/11/2022	18:00	1.8	135
01/11/2022	19:00	0.0	90	02/11/2022	19:00	0.0	112.5	03/11/2022	19:00	0.9	112.5	04/11/2022	19:00	0.9	135
01/11/2022	20:00	1.3	90	02/11/2022	20:00	1.3	90	03/11/2022	20:00	0.9	45	04/11/2022	20:00	0.9	112.5
01/11/2022	21:00	0.9	112.5	02/11/2022	21:00	0.9	112.5	03/11/2022	21:00	0.4	45	04/11/2022	21:00	1.3	112.5
01/11/2022	22:00	1.3	112.5	02/11/2022	22:00	1.8	90	03/11/2022	22:00	1.3	90	04/11/2022	22:00	1.3	90
01/11/2022	23:00	0.9	112.5	02/11/2022	23:00	1.3	112.5	03/11/2022	23:00	1.3	112.5	04/11/2022	23:00	1.3	45

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
05/11/2022	0:00	0.4	112.5	06/11/2022	0:00	0.9	135	07/11/2022	0:00	0.9	292.5	08/11/2022	0:00	0.9	1125
05/11/2022	1:00	0.9	112.5	06/11/2022	1:00	1.3	135	07/11/2022	1:00	0.9	112.5	08/11/2022	1:00	1.3	112.5
05/11/2022	2:00	0.4	112.5	06/11/2022	2:00	0.9	112.5	07/11/2022	2:00	0.9	135	08/11/2022	2:00	1.3	90
05/11/2022	3:00	0.9	90	06/11/2022	3:00	0.9	135	07/11/2022	3:00	0.9	135	08/11/2022	3:00	1.8	90
05/11/2022	4:00	0.4	112.5	06/11/2022	4:00	1.3	202.5	07/11/2022	4:00	1.3	135	08/11/2022	4:00	1.3	112.5
05/11/2022	5:00	0.9	90	06/11/2022	5:00	0.9	112.5	07/11/2022	5:00	0.9	315	08/11/2022	5:00	0.9	112.5
05/11/2022	6:00	0.9	112.5	06/11/2022	6:00	0.9	90	07/11/2022	6:00	1.3	112.5	08/11/2022	6:00	0.9	112.5
05/11/2022	7:00	0.9	112.5	06/11/2022	7:00	0.9	112.5	07/11/2022	7:00	0.9	135	08/11/2022	7:00	1.3	112.5
05/11/2022	8:00	1.8	112.5	06/11/2022	8:00	0.9	45	07/11/2022	8:00	0.4	45	08/11/2022	8:00	1.3	112.5
05/11/2022	9:00	1.3	135	06/11/2022	9:00	0.9	67.5	07/11/2022	9:00	1.3	337.5	08/11/2022	9:00	0.9	90
05/11/2022	10:00	0.4	45	06/11/2022	10:00	0.9	112.5	07/11/2022	10:00	1.3	135	08/11/2022	10:00	0.9	135
05/11/2022	11:00	0.9	45	06/11/2022	11:00	1.3	135	07/11/2022	11:00	1.3	22.5	08/11/2022	11:00	0.9	135
05/11/2022	12:00	1.3	112.5	06/11/2022	12:00	0.4	135	07/11/2022	12:00	1.3	22.5	08/11/2022	12:00	0.9	112.5
05/11/2022	13:00	0.9	45	06/11/2022	13:00	0.9	135	07/11/2022	13:00	0.9	112.5	08/11/2022	13:00	0.4	135
05/11/2022	14:00	0.4	202.5	06/11/2022	14:00	0.9	135	07/11/2022	14:00	0.9	112.5	08/11/2022	14:00	0.4	180
05/11/2022	15:00	0.4	45	06/11/2022	15:00	0.9	112.5	07/11/2022	15:00	0.9	90	08/11/2022	15:00	0.4	292.5
05/11/2022	16:00	0.4	292.5	06/11/2022	16:00	0.9	67.5	07/11/2022	16:00	0.9	112.5	08/11/2022	16:00	0.9	112.5
05/11/2022	17:00	0.4	112.5	06/11/2022	17:00	0.4	135	07/11/2022	17:00	1.3	90	08/11/2022	17:00	0.4	22.5
05/11/2022	18:00	0.4	45	06/11/2022	18:00	0.9	22.5	07/11/2022	18:00	1.3	112.5	08/11/2022	18:00	0.4	22.5
05/11/2022	19:00	0.4	45	06/11/2022	19:00	0.9	135	07/11/2022	19:00	1.3	90	08/11/2022	19:00	0.4	112.5
05/11/2022	20:00	0.4	135	06/11/2022	20:00	1.3	135	07/11/2022	20:00	1.8	202.5	08/11/2022	20:00	0.4	112.5
05/11/2022	21:00	0.4	135	06/11/2022	21:00	1.3	45	07/11/2022	21:00	1.3	112.5	08/11/2022	21:00	0.4	45
05/11/2022	22:00	0.4	135	06/11/2022	22:00	1.3	337.5	07/11/2022	22:00	1.8	112.5	08/11/2022	22:00	0.9	22.5
05/11/2022	23:00	0.9	67.5	06/11/2022	23:00	0.9	247.5	07/11/2022	23:00	1.8	112.5	08/11/2022	23:00	0.9	22.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
09/11/2022	0:00	0.4	135	10/11/2022	0:00	0.9	157.5	11/11/2022	0:00	0.4	135	12/11/2022	0:00	0.4	22.5
09/11/2022	1:00	0.9	112.5	10/11/2022	1:00	1.3	135	11/11/2022	1:00	0.4	270	12/11/2022	1:00	0.4	22.5
09/11/2022	2:00	0.4	112.5	10/11/2022	2:00	1.3	112.5	11/11/2022	2:00	0.4	270	12/11/2022	2:00	0.4	112.5
09/11/2022	3:00	0.9	22.5	10/11/2022	3:00	1.8	112.5	11/11/2022	3:00	0.4	270	12/11/2022	3:00	0.9	112.5
09/11/2022	4:00	0.4	337.5	10/11/2022	4:00	0.9	90	11/11/2022	4:00	0.9	225	12/11/2022	4:00	0.9	135
09/11/2022	5:00	0.4	315	10/11/2022	5:00	0.9	135	11/11/2022	5:00	0.9	225	12/11/2022	5:00	0.9	112.5
09/11/2022	6:00	0.9	22.5	10/11/2022	6:00	0.9	135	11/11/2022	6:00	1.3	202.5	12/11/2022	6:00	0.9	112.5
09/11/2022	7:00	0.9	22.5	10/11/2022	7:00	0.9	112.5	11/11/2022	7:00	1.3	247.5	12/11/2022	7:00	0.9	112.5
09/11/2022	8:00	1.3	112.5	10/11/2022	8:00	1.3	135	11/11/2022	8:00	1.3	270	12/11/2022	8:00	0.9	112.5
09/11/2022	9:00	1.3	112.5	10/11/2022	9:00	1.3	112.5	11/11/2022	9:00	1.3	247.5	12/11/2022	9:00	0.9	112.5
09/11/2022	10:00	1.3	135	10/11/2022	10:00	1.3	112.5	11/11/2022	10:00	0.4	247.5	12/11/2022	10:00	0.9	112.5
09/11/2022	11:00	0.9	112.5	10/11/2022	11:00	1.3	45	11/11/2022	11:00	0.9	247.5	12/11/2022	11:00	0.9	112.5
09/11/2022	12:00	1.3	22.5	10/11/2022	12:00	0.9	157.5	11/11/2022	12:00	0.4	225	12/11/2022	12:00	0.4	112.5
09/11/2022	13:00	0.9	112.5	10/11/2022	13:00	0.4	22.5	11/11/2022	13:00	0.9	22.5	12/11/2022	13:00	0.4	90
09/11/2022	14:00	0.9	90	10/11/2022	14:00	0.4	22.5	11/11/2022	14:00	0.9	90	12/11/2022	14:00	0.9	112.5
09/11/2022	15:00	1.3	112.5	10/11/2022	15:00	0.4	112.5	11/11/2022	15:00	0.9	135	12/11/2022	15:00	1.3	112.5
09/11/2022	16:00	0.4	22.5	10/11/2022	16:00	0.9	90	11/11/2022	16:00	1.3	112.5	12/11/2022	16:00	1.8	45
09/11/2022	17:00	0.4	22.5	10/11/2022	17:00	0.4	112.5	11/11/2022	17:00	1.3	112.5	12/11/2022	17:00	1.3	112.5
09/11/2022	18:00	0.4	112.5	10/11/2022	18:00	0.4	112.5	11/11/2022	18:00	0.9	112.5	12/11/2022	18:00	0.4	112.5
09/11/2022	19:00	0.4	22.5	10/11/2022	19:00	1.3	112.5	11/11/2022	19:00	1.3	112.5	12/11/2022	19:00	1.3	112.5
09/11/2022	20:00	0.4	112.5	10/11/2022	20:00	0.4	180	11/11/2022	20:00	0.9	67.5	12/11/2022	20:00	0.4	90
09/11/2022	21:00	0.4	112.5	10/11/2022	21:00	0.4	112.5	11/11/2022	21:00	0.9	90	12/11/2022	21:00	0.9	112.5
09/11/2022	22:00	0.4	112.5	10/11/2022	22:00	0.4	270	11/11/2022	22:00	1.3	135	12/11/2022	22:00	0.4	45
09/11/2022	23:00	0.4	112.5	10/11/2022	23:00	0.4	112.5	11/11/2022	23:00	0.4	135	12/11/2022	23:00	0.4	112.5

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

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
13/11/2022	0:00	1.3	112.5	14/11/2022	0:00	0.9	112.5	15/11/2022	0:00	1.3	90	16/11/2022	0:00	0.4	112.5
13/11/2022	1:00	0.9	90	14/11/2022	1:00	0.9	90	15/11/2022	1:00	0.9	90	16/11/2022	1:00	0.4	112.5
13/11/2022	2:00	1.3	135	14/11/2022	2:00	0.4	135	15/11/2022	2:00	0.4	90	16/11/2022	2:00	0.4	112.5
13/11/2022	3:00	1.8	90	14/11/2022	3:00	0.4	90	15/11/2022	3:00	0.4	90	16/11/2022	3:00	0.9	112.5
13/11/2022	4:00	1.3	90	14/11/2022	4:00	0.9	135	15/11/2022	4:00	0.9	112.5	16/11/2022	4:00	0.4	112.5
13/11/2022	5:00	1.8	112.5	14/11/2022	5:00	0.9	90	15/11/2022	5:00	1.3	112.5	16/11/2022	5:00	0.9	112.5
13/11/2022	6:00	1.3	112.5	14/11/2022	6:00	0.4	90	15/11/2022	6:00	1.3	112.5	16/11/2022	6:00	0.4	90
13/11/2022	7:00	1.8	112.5	14/11/2022	7:00	0.9	90	15/11/2022	7:00	1.3	90	16/11/2022	7:00	0.4	90
13/11/2022	8:00	2.2	112.5	14/11/2022	8:00	0.9	90	15/11/2022	8:00	1.3	90	16/11/2022	8:00	0.4	112.5
13/11/2022	9:00	1.3	90	14/11/2022	9:00	0.9	112.5	15/11/2022	9:00	0.4	112.5	16/11/2022	9:00	0.9	112.5
13/11/2022	10:00	1.3	90	14/11/2022	10:00	0.9	112.5	15/11/2022	10:00	1.3	135	16/11/2022	10:00	0.4	90
13/11/2022	11:00	0.9	112.5	14/11/2022	11:00	0.9	112.5	15/11/2022	11:00	0.9	45	16/11/2022	11:00	0.9	202.5
13/11/2022	12:00	0.9	112.5	14/11/2022	12:00	0.9	112.5	15/11/2022	12:00	0.4	45	16/11/2022	12:00	0.9	202.5
13/11/2022	13:00	1.3	112.5	14/11/2022	13:00	0.9	112.5	15/11/2022	13:00	1.3	112.5	16/11/2022	13:00	0.4	45
13/11/2022	14:00	0.4	112.5	14/11/2022	14:00	0.9	112.5	15/11/2022	14:00	0.9	90	16/11/2022	14:00	0.9	112.5
13/11/2022	15:00	0.4	135	14/11/2022	15:00	0.4	112.5	15/11/2022	15:00	1.3	112.5	16/11/2022	15:00	0.4	112.5
13/11/2022	16:00	0.4	135	14/11/2022	16:00	0.4	112.5	15/11/2022	16:00	0.9	90	16/11/2022	16:00	0.4	112.5
13/11/2022	17:00	0.4	135	14/11/2022	17:00	0.4	112.5	15/11/2022	17:00	0.4	90	16/11/2022	17:00	0.9	112.5
13/11/2022	18:00	0.9	112.5	14/11/2022	18:00	0.4	112.5	15/11/2022	18:00	0.9	112.5	16/11/2022	18:00	0.4	112.5
13/11/2022	19:00	0.9	202.5	14/11/2022	19:00	0.9	112.5	15/11/2022	19:00	0.4	112.5	16/11/2022	19:00	0.9	112.5
13/11/2022	20:00	1.3	202.5	14/11/2022	20:00	0.9	45	15/11/2022	20:00	0.9	90	16/11/2022	20:00	0.4	90
13/11/2022	21:00	1.3	247.5	14/11/2022	21:00	1.3	45	15/11/2022	21:00	45	90	16/11/2022	21:00	0.4	90
13/11/2022	22:00	1.3	270	14/11/2022	22:00	1.3	45	15/11/2022	22:00	45	90	16/11/2022	22:00	0.4	112.5
13/11/2022	23:00	0.4	135	14/11/2022	23:00	0.4	112.5	15/11/2022	23:00	0.9	112.5	16/11/2022	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
17/11/2022	0:00	0.9	112.5	18/11/2022	0:00	0.9	112.5	19/11/2022	0:00	0.4	90	20/11/2022	0:00	0.9	45
17/11/2022	1:00	0.9	90	18/11/2022	1:00	0.9	112.5	19/11/2022	1:00	0.4	90	20/11/2022	1:00	0.9	135
17/11/2022	2:00	1.3	112.5	18/11/2022	2:00	0.4	90	19/11/2022	2:00	0.9	90	20/11/2022	2:00	0.9	90
17/11/2022	3:00	0.9	112.5	18/11/2022	3:00	0.4	112.5	19/11/2022	3:00	0.4	112.5	20/11/2022	3:00	0.4	112.5
17/11/2022	4:00	1.3	112.5	18/11/2022	4:00	0.9	112.5	19/11/2022	4:00	0.4	90	20/11/2022	4:00	0.9	90
17/11/2022	5:00	1.3	90	18/11/2022	5:00	0.9	112.5	19/11/2022	5:00	0.9	112.5	20/11/2022	5:00	0.4	112.5
17/11/2022	6:00	0.9	112.5	18/11/2022	6:00	0.4	112.5	19/11/2022	6:00	0.9	90	20/11/2022	6:00	0.9	90
17/11/2022	7:00	0.9	135	18/11/2022	7:00	0.4	112.5	19/11/2022	7:00	1.3	90	20/11/2022	7:00	0.4	135
17/11/2022	8:00	0.9	112.5	18/11/2022	8:00	0.4	112.5	19/11/2022	8:00	1.3	90	20/11/2022	8:00	0.4	45
17/11/2022	9:00	0.9	112.5	18/11/2022	9:00	0.4	90	19/11/2022	9:00	0.9	112.5	20/11/2022	9:00	0.9	112.5
17/11/2022	10:00	1.3	112.5	18/11/2022	10:00	0.4	90	19/11/2022	10:00	0.4	180	20/11/2022	10:00	0.4	45
17/11/2022	11:00	0.9	112.5	18/11/2022	11:00	0.4	90	19/11/2022	11:00	0.9	90	20/11/2022	11:00	0.4	90
17/11/2022	12:00	1.3	90	18/11/2022	12:00	0.4	180	19/11/2022	12:00	0.4	90	20/11/2022	12:00	1.8	45
17/11/2022	13:00	0.9	112.5	18/11/2022	13:00	0.4	112.5	19/11/2022	13:00	1.3	90	20/11/2022	13:00	0.9	202.5
17/11/2022	14:00	1.3	112.5	18/11/2022	14:00	0.9	90	19/11/2022	14:00	0.9	112.5	20/11/2022	14:00	0.9	90
17/11/2022	15:00	0.9	112.5	18/11/2022	15:00	0.9	112.5	19/11/2022	15:00	0.4	90	20/11/2022	15:00	0.4	112.5
17/11/2022	16:00	1.3	112.5	18/11/2022	16:00	0.4	112.5	19/11/2022	16:00	0.9	112.5	20/11/2022	16:00	0.9	90
17/11/2022	17:00	1.3	90	18/11/2022	17:00	1.3	90	19/11/2022	17:00	0.9	45	20/11/2022	17:00	0.4	112.5
17/11/2022	18:00	0.9	112.5	18/11/2022	18:00	0.4	112.5	19/11/2022	18:00	1.3	45	20/11/2022	18:00	0.9	90
17/11/2022	19:00	0.9	135	18/11/2022	19:00	0.4	112.5	19/11/2022	19:00	1.3	112.5	20/11/2022	19:00	0.4	135
17/11/2022	20:00	0.9	112.5	18/11/2022	20:00	0.9	112.5	19/11/2022	20:00	0.9	112.5	20/11/2022	20:00	0.4	45
17/11/2022	21:00	0.9	112.5	18/11/2022	21:00	0.9	90	19/11/2022	21:00	0.4	180	20/11/2022	21:00	0.9	112.5
17/11/2022	22:00	1.3	112.5	18/11/2022	22:00	0.4	45	19/11/2022	22:00	0.9	90	20/11/2022	22:00	0.4	45
17/11/2022	23:00	0.9	112.5	18/11/2022	23:00	0.4	45	19/11/2022	23:00	0.4	112.5	20/11/2022	23:00	0.4	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
21/11/2022	0:00	0.9	22.5	22/11/2022	0:00	0.9	45	23/11/2022	0:00	0.9	90	24/11/2022	0:00	0.9	90
21/11/2022	1:00	0.9	22.5	22/11/2022	1:00	0.9	135	23/11/2022	1:00	0.9	90	24/11/2022	1:00	0.4	90
21/11/2022	2:00	0.9	135	22/11/2022	2:00	0.9	90	23/11/2022	2:00	0.9	90	24/11/2022	2:00	0.9	112.5
21/11/2022	3:00	0.9	45	22/11/2022	3:00	0.4	45	23/11/2022	3:00	0.9	90	24/11/2022	3:00	0.4	292.5
21/11/2022	4:00	0.4	45	22/11/2022	4:00	0.9	90	23/11/2022	4:00	1.3	112.5	24/11/2022	4:00	0.4	112.5
21/11/2022	5:00	0.4	22.5	22/11/2022	5:00	0.4	112.5	23/11/2022	5:00	0.9	90	24/11/2022	5:00	0.4	90
21/11/2022	6:00	0.9	22.5	22/11/2022	6:00	0.9	90	23/11/2022	6:00	0.9	135	24/11/2022	6:00	0.4	90
21/11/2022	7:00	0.9	22.5	22/11/2022	7:00	0.4	112.5	23/11/2022	7:00	0.9	112.5	24/11/2022	7:00	0.9	112.5
21/11/2022	8:00	0.4	112.5	22/11/2022	8:00	0.4	45	23/11/2022	8:00	0.9	112.5	24/11/2022	8:00	1.3	90
21/11/2022	9:00	0.4	22.5	22/11/2022	9:00	0.9	112.5	23/11/2022	9:00	0.9	225	24/11/2022	9:00	0.9	90
21/11/2022	10:00	0.4	315	22/11/2022	10:00	0.4	90	23/11/2022	10:00	0.4	180	24/11/2022	10:00	0.4	90
21/11/2022	11:00	0.9	22.5	22/11/2022	11:00	0.4	90	23/11/2022	11:00	0.9	180	24/11/2022	11:00	0.9	112.5
21/11/2022	12:00	0.9	22.5	22/11/2022	12:00	1.8	45	23/11/2022	12:00	0.4	112.5	24/11/2022	12:00	0.9	112.5
21/11/2022	13:00	1.3	112.5	22/11/2022	13:00	0.9	45	23/11/2022	13:00	0.9	90	24/11/2022	13:00	0.9	135
21/11/2022	14:00	0.4	90	22/11/2022	14:00	0.9	90	23/11/2022	14:00	0.9	90	24/11/2022	14:00	0.9	112.5
21/11/2022	15:00	112.5	45	22/11/2022	15:00	0.4	45	23/11/2022	15:00	0.9	90	24/11/2022	15:00	0.9	90
21/11/2022	16:00	0.9	90	22/11/2022	16:00	0.9	90	23/11/2022	16:00	1.3	112.5	24/11/2022	16:00	0.4	90
21/11/2022	17:00	1.3	112.5	22/11/2022	17:00	0.4	112.5	23/11/2022	17:00	0.9	90	24/11/2022	17:00	0.9	112.5
21/11/2022	18:00	0.9	90	22/11/2022	18:00	0.9	90	23/11/2022	18:00	0.9	135	24/11/2022	18:00	0.4	112.5
21/11/2022	19:00	45	22.5	22/11/2022	19:00	0.4	112.5	23/11/2022	19:00	0.9	112.5	24/11/2022	19:00	0.4	112.5
21/11/2022	20:00	0.4	112.5	22/11/2022	20:00	0.4	45	23/11/2022	20:00	0.9	112.5	24/11/2022	20:00	0.4	90
21/11/2022	21:00	0.9	90	22/11/2022	21:00	0.9	112.5	23/11/2022	21:00	0.9	225	24/11/2022	21:00	0.4	90
21/11/2022	22:00	0.4	112.5	22/11/2022	22:00	0.4	90	23/11/2022	22:00	0.4	180	24/11/2022	22:00	0.9	112.5
21/11/2022	23:00	1.3	112.5	22/11/2022	23:00	0.4	90	23/11/2022	23:00	0.9	180	24/11/2022	23:00	1.3	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
25/11/2022	0:00	0.9	112.5	26/11/2022	0:00	0.9	90	27/11/2022	0:00	1.3	157.5	28/11/2022	0:00	0.9	22.5
25/11/2022	1:00	0.9	135	26/11/2022	1:00	0.9	90	27/11/2022	1:00	1.3	67.5	28/11/2022	1:00	0.4	22.5
25/11/2022	2:00	0.9	135	26/11/2022	2:00	1.3	112.5	27/11/2022	2:00	0.9	45	28/11/2022	2:00	0.4	22.5
25/11/2022	3:00	0.9	112.5	26/11/2022	3:00	1.3	67.5	27/11/2022	3:00	0.9	67.5	28/11/2022	3:00	0.9	22.5
25/11/2022	4:00	1.3	112.5	26/11/2022	4:00	1.3	67.5	27/11/2022	4:00	0.4	90	28/11/2022	4:00	0.4	135
25/11/2022	5:00	1.3	112.5	26/11/2022	5:00	1.3	67.5	27/11/2022	5:00	0.9	112.5	28/11/2022	5:00	0.9	135
25/11/2022	6:00	0.9	112.5	26/11/2022	6:00	1.3	45	27/11/2022	6:00	0.4	112.5	28/11/2022	6:00	0.9	90
25/11/2022	7:00	1.3	90	26/11/2022	7:00	1.8	112.5	27/11/2022	7:00	0.4	112.5	28/11/2022	7:00	0.9	270
25/11/2022	8:00	1.3	112.5	26/11/2022	8:00	0.9	337.5	27/11/2022	8:00	0.4	337.5	28/11/2022	8:00	0.4	247.5
25/11/2022	9:00	1.8	135	26/11/2022	9:00	0.9	112.5	27/11/2022	9:00	1.3	22.5	28/11/2022	9:00	0.4	112.5
25/11/2022	10:00	1.3	112.5	26/11/2022	10:00	1.3	90	27/11/2022	10:00	1.3	315	28/11/2022	10:00	1.3	45
25/11/2022	11:00	1.8	90	26/11/2022	11:00	1.3	112.5	27/11/2022	11:00	1.3	22.5	28/11/2022	11:00	1.3	112.5
25/11/2022	12:00	1.8	135	26/11/2022	12:00	1.3	112.5	27/11/2022	12:00	0.9	225	28/11/2022	12:00	1.3	90
25/11/2022	13:00	0.4	112.5	26/11/2022	13:00	1.3	157.5	27/11/2022	13:00	0.9	90	28/11/2022	13:00	1.3	67.5
25/11/2022	14:00	0.9	90	26/11/2022	14:00	0.9	112.5	27/11/2022	14:00	0.9	90	28/11/2022	14:00	1.3	135
25/11/2022	15:00	0.4	135	26/11/2022	15:00	0.9	135	27/11/2022	15:00	0.9	90	28/11/2022	15:00	0.9	90
25/11/2022	16:00	0.9	112.5	26/11/2022	16:00	0.4	135	27/11/2022	16:00	0.9	90	28/11/2022	16:00	0.9	45
25/11/2022	17:00	0.9	112.5	26/11/2022	17:00	1.3	112.5	27/11/2022	17:00	1.3	112.5	28/11/2022	17:00	1.3	67.5
25/11/2022	18:00	0.4	135	26/11/2022	18:00	0.4	135	27/11/2022	18:00	0.9	90	28/11/2022	18:00	0.9	112.5
25/11/2022	19:00	0.4	135	26/11/2022	19:00	0.9	135	27/11/2022	19:00	0.9	135	28/11/2022	19:00	0.9	90
25/11/2022	20:00	0.4	135	26/11/2022	20:00	0.4	135	27/11/2022	20:00	0.9	112.5	28/11/2022	20:00	1.3	112.5
25/11/2022	21:00	0.9	225	26/11/2022	21:00	0.4	90	27/11/2022	21:00	0.9	112.5	28/11/2022	21:00	1.8	135
25/11/2022	22:00	0.9	112.5	26/11/2022	22:00	0.4	112.5	27/11/2022	22:00	0.9	225	28/11/2022	22:00	1.8	337.5
25/11/2022	23:00	0.4	112.5	26/11/2022	23:00	0.4	112.5	27/11/2022	23:00	0.4	180	28/11/2022	23:00	1.3	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
29/11/2022	0:00	0.9	112.5	30/11/2022	0:00	0.9	112.5								
29/11/2022	1:00	1.8	67.5	30/11/2022	1:00	0.9	90								
29/11/2022	2:00	1.3	90	30/11/2022	2:00	0.9	67.5								
29/11/2022	3:00	1.3	45	30/11/2022	3:00	1.3	135								
29/11/2022	4:00	0.4	135	30/11/2022	4:00	0.9	135								
29/11/2022	5:00	0.4	67.5	30/11/2022	5:00	0.9	135								
29/11/2022	6:00	0.9	90	30/11/2022	6:00	0.4	135								
29/11/2022	7:00	1.3	90	30/11/2022	7:00	0.9	135								
29/11/2022	8:00	1.3	90	30/11/2022	8:00	0.4	112.5								
29/11/2022	9:00	1.3	112.5	30/11/2022	9:00	0.4	90								
29/11/2022	10:00	1.3	135	30/11/2022	10:00	0.4	112.5								
29/11/2022	11:00	0.9	90	30/11/2022	11:00	0.4	112.5								
29/11/2022	12:00	0.4	45	30/11/2022	12:00	0.4	112.5								
29/11/2022	13:00	0.9	67.5	30/11/2022	13:00	0.4	112.5								
29/11/2022	14:00	0.9	22.5	30/11/2022	14:00	0.9	90								
29/11/2022	15:00	0.9	67.5	30/11/2022	15:00	0.4	90								
29/11/2022	16:00	0.9	292.5	30/11/2022	16:00	0.4	90								
29/11/2022	17:00	0.9	180	30/11/2022	17:00	0.9	90								
29/11/2022	18:00	0.9	337.5	30/11/2022	18:00	0.9	90								
29/11/2022	19:00	1.3	112.5	30/11/2022	19:00	0.4	90								
29/11/2022	20:00	1.3	292.5	30/11/2022	20:00	0.9	112.5								
29/11/2022	21:00	1.3	292.5	30/11/2022	21:00	1.3	90								
29/11/2022	22:00	0.9	112.5	30/11/2022	22:00	0.9	112.5								
29/11/2022	23:00	0.9	157.5	30/11/2022	23:00	1.3	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
01/12/2022	0:00	0.9	112.5	02/12/2022	0:00	0.9	90	03/12/2022	0:00	1.3	112.5	04/12/2022	0:00	0.4	67.5
01/12/2022	1:00	1.3	90	02/12/2022	1:00	0.4	112.5	03/12/2022	1:00	0.9	112.5	04/12/2022	1:00	0.4	90
01/12/2022	2:00	0.9	112.5	02/12/2022	2:00	0.4	112.5	03/12/2022	2:00	1.3	112.5	04/12/2022	2:00	0.9	112.5
01/12/2022	3:00	0.9	112.5	02/12/2022	3:00	0.9	45	03/12/2022	3:00	1.3	315	04/12/2022	3:00	0.4	135
01/12/2022	4:00	1.8	90	02/12/2022	4:00	0.9	90	03/12/2022	4:00	0.9	247.5	04/12/2022	4:00	0.4	90
01/12/2022	5:00	1.3	90	02/12/2022	5:00	1.3	157.5	03/12/2022	5:00	0.9	22.5	04/12/2022	5:00	0.9	135
01/12/2022	6:00	0.4	112.5	02/12/2022	6:00	0.9	157.5	03/12/2022	6:00	0.9	45	04/12/2022	6:00	0.4	135
01/12/2022	7:00	0.4	112.5	02/12/2022	7:00	0.4	112.5	03/12/2022	7:00	0.4	67.5	04/12/2022	7:00	0.4	135
01/12/2022	8:00	90	112.5	02/12/2022	8:00	0.9	112.5	03/12/2022	8:00	0.9	112.5	04/12/2022	8:00	0.9	112.5
01/12/2022	9:00	1.3	90	02/12/2022	9:00	1.3	45	03/12/2022	9:00	0.4	112.5	04/12/2022	9:00	0.4	112.5
01/12/2022	10:00	0.9	45	02/12/2022	10:00	1.3	45	03/12/2022	10:00	0.9	45	04/12/2022	10:00	0.4	112.5
01/12/2022	11:00	1.3	45	02/12/2022	11:00	0.9	112.5	03/12/2022	11:00	1.3	45	04/12/2022	11:00	0.4	112.5
01/12/2022	12:00	1.8	112.5	02/12/2022	12:00	0.4	90	03/12/2022	12:00	0.4	135	04/12/2022	12:00	0.4	180
01/12/2022	13:00	1.3	90	02/12/2022	13:00	0.4	90	03/12/2022	13:00	0.4	135	04/12/2022	13:00	0.4	112.5
01/12/2022	14:00	0.9	90	02/12/2022	14:00	1.3	45	03/12/2022	14:00	0.9	112.5	04/12/2022	14:00	0.9	112.5
01/12/2022	15:00	0.4	112.5	02/12/2022	15:00	0.4	112.5	03/12/2022	15:00	0.9	135	04/12/2022	15:00	1.3	90
01/12/2022	16:00	0.4	112.5	02/12/2022	16:00	0.9	45	03/12/2022	16:00	0.4	292.5	04/12/2022	16:00	0.4	90
01/12/2022	17:00	0.9	90	02/12/2022	17:00	1.3	90	03/12/2022	17:00	0.9	112.5	04/12/2022	17:00	0.9	22.5
01/12/2022	18:00	1.3	112.5	02/12/2022	18:00	0.9	90	03/12/2022	18:00	1.3	112.5	04/12/2022	18:00	0.9	112.5
01/12/2022	19:00	0.4	45	02/12/2022	19:00	0.4	112.5	03/12/2022	19:00	0.9	157.5	04/12/2022	19:00	0.4	112.5
01/12/2022	20:00	0.9	45	02/12/2022	20:00	1.3	90	03/12/2022	20:00	0.4	157.5	04/12/2022	20:00	0.4	112.5
01/12/2022	21:00	1.3	112.5	02/12/2022	21:00	0.9	112.5	03/12/2022	21:00	0.9	112.5	04/12/2022	21:00	1.3	135
01/12/2022	22:00	0.4	112.5	02/12/2022	22:00	0.9	112.5	03/12/2022	22:00	0.9	112.5	04/12/2022	22:00	0.4	135
01/12/2022	23:00	0.4	90	02/12/2022	23:00	0.4	90	03/12/2022	23:00	0.4	270	04/12/2022	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
05/12/2022	0:00	0.9	135	06/12/2022	0:00	1.3	112.5	07/12/2022	0:00	0.9	135	08/12/2022	0:00	0.9	135
05/12/2022	1:00	1.3	315	06/12/2022	1:00	1.3	112.5	07/12/2022	1:00	0.9	157.5	08/12/2022	1:00	0.9	135
05/12/2022	2:00	1.8	202.5	06/12/2022	2:00	0.9	90	07/12/2022	2:00	0.9	135	08/12/2022	2:00	0.9	135
05/12/2022	3:00	0.9	135	06/12/2022	3:00	0.9	112.5	07/12/2022	3:00	0.9	112.5	08/12/2022	3:00	0.9	157.5
05/12/2022	4:00	1.8	157.5	06/12/2022	4:00	0.9	112.5	07/12/2022	4:00	0.9	135	08/12/2022	4:00	0.9	135
05/12/2022	5:00	1.3	135	06/12/2022	5:00	0.9	180	07/12/2022	5:00	0.9	135	08/12/2022	5:00	0.9	112.5
05/12/2022	6:00	1.3	202.5	06/12/2022	6:00	1.3	45	07/12/2022	6:00	0.9	112.5	08/12/2022	6:00	0.9	112.5
05/12/2022	7:00	2.2	135	06/12/2022	7:00	0.9	112.5	07/12/2022	7:00	0.9	135	08/12/2022	7:00	0.9	112.5
05/12/2022	8:00	1.3	112.5	06/12/2022	8:00	1.3	112.5	07/12/2022	8:00	0.9	135	08/12/2022	8:00	0.9	157.5
05/12/2022	9:00	0.9	112.5	06/12/2022	9:00	0.9	292.5	07/12/2022	9:00	1.3	112.5	08/12/2022	9:00	1.3	135
05/12/2022	10:00	0.9	112.5	06/12/2022	10:00	0.9	112.5	07/12/2022	10:00	1.8	112.5	08/12/2022	10:00	0.9	112.5
05/12/2022	11:00	1.3	112.5	06/12/2022	11:00	1.3	45	07/12/2022	11:00	1.3	112.5	08/12/2022	11:00	0.9	225
05/12/2022	12:00	1.3	202.5	06/12/2022	12:00	1.3	135	07/12/2022	12:00	1.3	112.5	08/12/2022	12:00	0.4	112.5
05/12/2022	13:00	1.3	45	06/12/2022	13:00	1.3	112.5	07/12/2022	13:00	0.4	22.5	08/12/2022	13:00	0.4	112.5
05/12/2022	14:00	1.3	90	06/12/2022	14:00	1.3	45	07/12/2022	14:00	0.4	135	08/12/2022	14:00	1.3	90
05/12/2022	15:00	0.9	135	06/12/2022	15:00	0.9	90	07/12/2022	15:00	0.9	112.5	08/12/2022	15:00	1.8	90
05/12/2022	16:00	0.9	270	06/12/2022	16:00	1.3	67.5	07/12/2022	16:00	0.9	135	08/12/2022	16:00	1.8	90
05/12/2022	17:00	0.9	247.5	06/12/2022	17:00	1.3	67.5	07/12/2022	17:00	0.4	135	08/12/2022	17:00	1.8	90
05/12/2022	18:00	0.9	202.5	06/12/2022	18:00	1.8	67.5	07/12/2022	18:00	0.9	225	08/12/2022	18:00	0.4	112.5
05/12/2022	19:00	1.3	270	06/12/2022	19:00	1.8	67.5	07/12/2022	19:00	1.3	135	08/12/2022	19:00	0.4	157.5
05/12/2022	20:00	1.3	247.5	06/12/2022	20:00	2.2	135	07/12/2022	20:00	0.9	135	08/12/2022	20:00	0.4	45
05/12/2022	21:00	1.3	247.5	06/12/2022	21:00	1.3	112.5	07/12/2022	21:00	1.3	112.5	08/12/2022	21:00	0.9	112.5
05/12/2022	22:00	1.3	45	06/12/2022	22:00	1.3	45	07/12/2022	22:00	1.3	135	08/12/2022	22:00	0.9	45
05/12/2022	23:00	1.3	90	06/12/2022	23:00	0.9	90	07/12/2022	23:00	1.3	135	08/12/2022	23:00	0.4	22.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
09/12/2022	0:00	1.3	112.5	10/12/2022	0:00	1.3	45	11/12/2022	0:00	1.3	45	12/12/2022	0:00	0.9	112.5
09/12/2022	1:00	0.9	112.5	10/12/2022	1:00	1.8	45	11/12/2022	1:00	1.8	45	12/12/2022	1:00	0.9	112.5
09/12/2022	2:00	1.3	112.5	10/12/2022	2:00	1.3	225	11/12/2022	2:00	1.3	225	12/12/2022	2:00	0.4	112.5
09/12/2022	3:00	1.8	90	10/12/2022	3:00	0.9	202.5	11/12/2022	3:00	0.9	202.5	12/12/2022	3:00	0.4	112.5
09/12/2022	4:00	1.3	112.5	10/12/2022	4:00	0.9	157.5	11/12/2022	4:00	0.9	157.5	12/12/2022	4:00	0.4	112.5
09/12/2022	5:00	0.9	90	10/12/2022	5:00	1.3	90	11/12/2022	5:00	1.3	90	12/12/2022	5:00	0.4	112.5
09/12/2022	6:00	1.3	112.5	10/12/2022	6:00	2.2	90	11/12/2022	6:00	2.2	90	12/12/2022	6:00	0.9	112.5
09/12/2022	7:00	1.3	90	10/12/2022	7:00	1.3	22.5	11/12/2022	7:00	1.3	22.5	12/12/2022	7:00	0.9	45
09/12/2022	8:00	1.8	112.5	10/12/2022	8:00	1.3	112.5	11/12/2022	8:00	1.3	112.5	12/12/2022	8:00	1.3	45
09/12/2022	9:00	1.3	135	10/12/2022	9:00	1.3	67.5	11/12/2022	9:00	1.3	67.5	12/12/2022	9:00	0.9	112.5
09/12/2022	10:00	1.8	45	10/12/2022	10:00	1.8	67.5	11/12/2022	10:00	1.8	67.5	12/12/2022	10:00	0.9	112.5
09/12/2022	11:00	1.3	135	10/12/2022	11:00	1.3	45	11/12/2022	11:00	1.3	45	12/12/2022	11:00	0.4	112.5
09/12/2022	12:00	1.8	67.5	10/12/2022	12:00	1.3	270	11/12/2022	12:00	1.3	270	12/12/2022	12:00	0.4	112.5
09/12/2022	13:00	1.8	112.5	10/12/2022	13:00	1.3	112.5	11/12/2022	13:00	1.3	112.5	12/12/2022	13:00	1.3	90
09/12/2022	14:00	1.3	45	10/12/2022	14:00	2.2	90	11/12/2022	14:00	2.2	90	12/12/2022	14:00	1.3	90
09/12/2022	15:00	1.8	112.5	10/12/2022	15:00	0.9	67.5	11/12/2022	15:00	0.9	67.5	12/12/2022	15:00	0.9	112.5
09/12/2022	16:00	1.8	90	10/12/2022	16:00	0.9	90	11/12/2022	16:00	0.9	90	12/12/2022	16:00	0.4	180
09/12/2022	17:00	1.8	135	10/12/2022	17:00	0.4	270	11/12/2022	17:00	0.4	270	12/12/2022	17:00	0.9	90
09/12/2022	18:00	1.3	135	10/12/2022	18:00	0.4	225	11/12/2022	18:00	0.4	225	12/12/2022	18:00	0.4	90
09/12/2022	19:00	1.3	112.5	10/12/2022	19:00	0.9	270	11/12/2022	19:00	0.9	270	12/12/2022	19:00	1.3	90
09/12/2022	20:00	1.8	135	10/12/2022	20:00	0.4	247.5	11/12/2022	20:00	0.4	247.5	12/12/2022	20:00	0.9	112.5
09/12/2022	21:00	1.3	180	10/12/2022	21:00	0.4	247.5	11/12/2022	21:00	0.4	247.5	12/12/2022	21:00	0.4	90
09/12/2022	22:00	1.3	135	10/12/2022	22:00	0.4	270	11/12/2022	22:00	0.4	270	12/12/2022	22:00	0.9	112.5
09/12/2022	23:00	1.8	112.5	10/12/2022	23:00	0.9	67.5	11/12/2022	23:00	0.9	67.5	12/12/2022	23:00	0.9	45

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
13/12/2022	0:00	0.4	22.5	14/12/2022	0:00	0.9	112.5	15/12/2022	0:00	0.4	112.5	16/12/2022	0:00	0.9	90
13/12/2022	1:00	0.9	22.5	14/12/2022	1:00	0.9	112.5	15/12/2022	1:00	0.4	90	16/12/2022	1:00	1.3	135
13/12/2022	2:00	0.9	22.5	14/12/2022	2:00	0.9	135	15/12/2022	2:00	0.4	112.5	16/12/2022	2:00	0.4	112.5
13/12/2022	3:00	0.4	112.5	14/12/2022	3:00	0.9	112.5	15/12/2022	3:00	0.4	112.5	16/12/2022	3:00	0.4	90
13/12/2022	4:00	0.4	22.5	14/12/2022	4:00	0.9	90	15/12/2022	4:00	0.4	112.5	16/12/2022	4:00	0.4	112.5
13/12/2022	5:00	0.4	315	14/12/2022	5:00	0.4	90	15/12/2022	5:00	0.4	112.5	16/12/2022	5:00	0.9	90
13/12/2022	6:00	0.9	22.5	14/12/2022	6:00	0.9	112.5	15/12/2022	6:00	0.9	90	16/12/2022	6:00	0.9	112.5
13/12/2022	7:00	0.9	22.5	14/12/2022	7:00	0.4	112.5	15/12/2022	7:00	0.4	90	16/12/2022	7:00	0.4	90
13/12/2022	8:00	1.3	112.5	14/12/2022	8:00	0.4	112.5	15/12/2022	8:00	0.4	90	16/12/2022	8:00	0.9	112.5
13/12/2022	9:00	0.4	90	14/12/2022	9:00	0.4	90	15/12/2022	9:00	0.9	90	16/12/2022	9:00	0.4	112.5
13/12/2022	10:00	112.5	45	14/12/2022	10:00	0.4	90	15/12/2022	10:00	0.9	90	16/12/2022	10:00	0.4	90
13/12/2022	11:00	0.9	90	14/12/2022	11:00	0.9	112.5	15/12/2022	11:00	0.4	90	16/12/2022	11:00	0.4	112.5
13/12/2022	12:00	0.9	112.5	14/12/2022	12:00	1.3	90	15/12/2022	12:00	0.9	112.5	16/12/2022	12:00	0.4	90
13/12/2022	13:00	0.4	90	14/12/2022	13:00	0.9	270	15/12/2022	13:00	0.4	112.5	16/12/2022	13:00	0.4	45
13/12/2022	14:00	0.4	90	14/12/2022	14:00	0.4	247.5	15/12/2022	14:00	1.8	67.5	16/12/2022	14:00	0.9	112.5
13/12/2022	15:00	1.8	45	14/12/2022	15:00	0.4	112.5	15/12/2022	15:00	1.3	90	16/12/2022	15:00	0.9	135
13/12/2022	16:00	0.9	45	14/12/2022	16:00	1.3	45	15/12/2022	16:00	1.3	45	16/12/2022	16:00	0.4	45
13/12/2022	17:00	0.9	90	14/12/2022	17:00	1.3	112.5	15/12/2022	17:00	0.4	135	16/12/2022	17:00	1.3	337.5
13/12/2022	18:00	0.4	45	14/12/2022	18:00	1.3	90	15/12/2022	18:00	0.4	67.5	16/12/2022	18:00	1.3	135
13/12/2022	19:00	0.9	90	14/12/2022	19:00	1.3	67.5	15/12/2022	19:00	0.9	90	16/12/2022	19:00	1.3	22.5
13/12/2022	20:00	0.4	112.5	14/12/2022	20:00	1.3	135	15/12/2022	20:00	1.3	90	16/12/2022	20:00	1.3	22.5
13/12/2022	21:00	0.9	112.5	14/12/2022	21:00	0.9	90	15/12/2022	21:00	1.3	90	16/12/2022	21:00	0.9	112.5
13/12/2022	22:00	0.4	90	14/12/2022	22:00	0.9	45	15/12/2022	22:00	1.3	112.5	16/12/2022	22:00	0.9	112.5
13/12/2022	23:00	0.4	90	14/12/2022	23:00	1.3	67.5	15/12/2022	23:00	1.3	135	16/12/2022	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
17/12/2022	0:00	0.4	135	18/12/2022	0:00	0.9	135	19/12/2022	0:00	1.3	112.5	20/12/2022	0:00	0.9	67.5
17/12/2022	1:00	0.9	135	18/12/2022	1:00	0.9	112.5	19/12/2022	1:00	0.9	135	20/12/2022	1:00	1.3	45
17/12/2022	2:00	0.9	135	18/12/2022	2:00	0.9	90	19/12/2022	2:00	0.9	112.5	20/12/2022	2:00	1.3	45
17/12/2022	3:00	0.9	135	18/12/2022	3:00	0.9	90	19/12/2022	3:00	1.3	112.5	20/12/2022	3:00	0.9	67.5
17/12/2022	4:00	0.9	135	18/12/2022	4:00	0.9	90	19/12/2022	4:00	0.9	135	20/12/2022	4:00	0.4	45
17/12/2022	5:00	0.9	157.5	18/12/2022	5:00	0.4	112.5	19/12/2022	5:00	0.9	90	20/12/2022	5:00	1.3	67.5
17/12/2022	6:00	0.9	135	18/12/2022	6:00	0.4	90	19/12/2022	6:00	1.3	112.5	20/12/2022	6:00	1.3	67.5
17/12/2022	7:00	0.9	112.5	18/12/2022	7:00	0.4	135	19/12/2022	7:00	1.3	112.5	20/12/2022	7:00	0.4	22.5
17/12/2022	8:00	0.9	112.5	18/12/2022	8:00	0.9	90	19/12/2022	8:00	1.3	135	20/12/2022	8:00	0.9	135
17/12/2022	9:00	0.9	112.5	18/12/2022	9:00	0.9	157.5	19/12/2022	9:00	1.3	135	20/12/2022	9:00	0.9	90
17/12/2022	10:00	0.4	135	18/12/2022	10:00	0.4	112.5	19/12/2022	10:00	1.8	112.5	20/12/2022	10:00	1.3	112.5
17/12/2022	11:00	0.4	135	18/12/2022	11:00	0.9	112.5	19/12/2022	11:00	0.9	90	20/12/2022	11:00	1.3	135
17/12/2022	12:00	0.9	45	18/12/2022	12:00	0.9	112.5	19/12/2022	12:00	1.3	135	20/12/2022	12:00	0.4	112.5
17/12/2022	13:00	0.4	90	18/12/2022	13:00	0.9	112.5	19/12/2022	13:00	0.4	112.5	20/12/2022	13:00	0.9	67.5
17/12/2022	14:00	0.9	112.5	18/12/2022	14:00	0.9	112.5	19/12/2022	14:00	0.4	90	20/12/2022	14:00	1.3	45
17/12/2022	15:00	0.9	135	18/12/2022	15:00	1.3	112.5	19/12/2022	15:00	0.9	90	20/12/2022	15:00	1.3	45
17/12/2022	16:00	0.9	135	18/12/2022	16:00	0.9	112.5	19/12/2022	16:00	0.9	90	20/12/2022	16:00	0.9	67.5
17/12/2022	17:00	0.9	112.5	18/12/2022	17:00	1.3	90	19/12/2022	17:00	1.3	112.5	20/12/2022	17:00	0.4	45
17/12/2022	18:00	0.9	135	18/12/2022	18:00	0.9	90	19/12/2022	18:00	1.3	135	20/12/2022	18:00	1.3	67.5
17/12/2022	19:00	0.9	135	18/12/2022	19:00	1.3	112.5	19/12/2022	19:00	0.9	112.5	20/12/2022	19:00	1.3	67.5
17/12/2022	20:00	0.9	112.5	18/12/2022	20:00	0.9	112.5	19/12/2022	20:00	0.4	112.5	20/12/2022	20:00	0.4	22.5
17/12/2022	21:00	0.4	135	18/12/2022	21:00	0.4	112.5	19/12/2022	21:00	0.4	112.5	20/12/2022	21:00	0.9	135
17/12/2022	22:00	0.9	135	18/12/2022	22:00	0.4	112.5	19/12/2022	22:00	1.3	112.5	20/12/2022	22:00	0.9	90
17/12/2022	23:00	0.4	22.5	18/12/2022	23:00	0.9	112.5	19/12/2022	23:00	1.8	112.5	20/12/2022	23:00	1.3	112.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
21/12/2022	0:00	0.9	45	22/12/2022	0:00	0.9	135	23/12/2022	0:00	0.4	112.5	24/12/2022	0:00	0.4	45
21/12/2022	1:00	0.9	90	22/12/2022	1:00	0.4	135	23/12/2022	1:00	0.4	180	24/12/2022	1:00	0.4	67.5
21/12/2022	2:00	1.3	90	22/12/2022	2:00	0.4	90	23/12/2022	2:00	0.4	112.5	24/12/2022	2:00	0.9	112.5
21/12/2022	3:00	1.3	90	22/12/2022	3:00	1.3	135	23/12/2022	3:00	0.4	270	24/12/2022	3:00	0.9	135
21/12/2022	4:00	1.3	45	22/12/2022	4:00	1.3	135	23/12/2022	4:00	0.9	112.5	24/12/2022	4:00	0.4	112.5
21/12/2022	5:00	0.9	67.5	22/12/2022	5:00	0.4	135	23/12/2022	5:00	0.4	112.5	24/12/2022	5:00	0.4	292.5
21/12/2022	6:00	1.3	45	22/12/2022	6:00	0.9	45	23/12/2022	6:00	0.9	90	24/12/2022	6:00	0.9	112.5
21/12/2022	7:00	1.3	22.5	22/12/2022	7:00	1.3	45	23/12/2022	7:00	0.9	90	24/12/2022	7:00	0.4	225
21/12/2022	8:00	1.3	22.5	22/12/2022	8:00	1.3	292.5	23/12/2022	8:00	0.4	90	24/12/2022	8:00	0.4	315
21/12/2022	9:00	0.9	22.5	22/12/2022	9:00	0.4	292.5	23/12/2022	9:00	0.9	67.5	24/12/2022	9:00	0.4	112.5
21/12/2022	10:00	0.9	247.5	22/12/2022	10:00	1.3	112.5	23/12/2022	10:00	0.4	112.5	24/12/2022	10:00	0.4	112.5
21/12/2022	11:00	0.9	45	22/12/2022	11:00	0.9	90	23/12/2022	11:00	0.4	90	24/12/2022	11:00	0.9	45
21/12/2022	12:00	1.3	45	22/12/2022	12:00	1.3	112.5	23/12/2022	12:00	0.9	90	24/12/2022	12:00	0.4	67.5
21/12/2022	13:00	0.9	45	22/12/2022	13:00	1.3	112.5	23/12/2022	13:00	0.9	90	24/12/2022	13:00	0.4	45
21/12/2022	14:00	0.9	90	22/12/2022	14:00	1.3	112.5	23/12/2022	14:00	0.4	90	24/12/2022	14:00	0.4	67.5
21/12/2022	15:00	1.3	90	22/12/2022	15:00	0.4	112.5	23/12/2022	15:00	0.4	157.5	24/12/2022	15:00	0.9	112.5
21/12/2022	16:00	0.4	112.5	22/12/2022	16:00	0.4	112.5	23/12/2022	16:00	0.9	112.5	24/12/2022	16:00	0.9	135
21/12/2022	17:00	0.4	112.5	22/12/2022	17:00	0.4	112.5	23/12/2022	17:00	0.4	112.5	24/12/2022	17:00	0.4	112.5
21/12/2022	18:00	0.9	90	22/12/2022	18:00	0.4	112.5	23/12/2022	18:00	0.4	90	24/12/2022	18:00	0.4	292.5
21/12/2022	19:00	1.3	90	22/12/2022	19:00	0.4	112.5	23/12/2022	19:00	0.4	112.5	24/12/2022	19:00	0.9	112.5
21/12/2022	20:00	0.4	90	22/12/2022	20:00	0.9	112.5	23/12/2022	20:00	0.9	135	24/12/2022	20:00	0.4	225
21/12/2022	21:00	0.4	112.5	22/12/2022	21:00	0.9	112.5	23/12/2022	21:00	1.3	157.5	24/12/2022	21:00	0.4	315
21/12/2022	22:00	0.9	112.5	22/12/2022	22:00	1.3	112.5	23/12/2022	22:00	1.3	112.5	24/12/2022	22:00	0.4	112.5
21/12/2022	23:00	1.3	112.5	22/12/2022	23:00	1.8	112.5	23/12/2022	23:00	1.3	112.5	24/12/2022	23:00	0.4	112.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
25/12/2022	0:00	0.4	22.5	26/12/2022	0:00	0.4	22.5	27/12/2022	0:00	1.3	112.5	28/12/2022	0:00	0	90
25/12/2022	1:00	0.4	112.5	26/12/2022	1:00	0.4	112.5	27/12/2022	1:00	0.9	112.5	28/12/2022	1:00	0.4	22.5
25/12/2022	2:00	0.4	112.5	26/12/2022	2:00	0.4	112.5	27/12/2022	2:00	0.9	112.5	28/12/2022	2:00	0.4	112.5
25/12/2022	3:00	0.4	135	26/12/2022	3:00	0.4	135	27/12/2022	3:00	0.9	112.5	28/12/2022	3:00	0.4	112.5
25/12/2022	4:00	0	112.5	26/12/2022	4:00	0	112.5	27/12/2022	4:00	0.9	135	28/12/2022	4:00	0.4	135
25/12/2022	5:00	0.4	112.5	26/12/2022	5:00	0.4	112.5	27/12/2022	5:00	0.4	112.5	28/12/2022	5:00	0	112.5
25/12/2022	6:00	0.4	112.5	26/12/2022	6:00	0.4	112.5	27/12/2022	6:00	0.4	112.5	28/12/2022	6:00	0.4	112.5
25/12/2022	7:00	0.4	112.5	26/12/2022	7:00	0.4	112.5	27/12/2022	7:00	0	112.5	28/12/2022	7:00	0.4	112.5
25/12/2022	8:00	0.9	112.5	26/12/2022	8:00	0.9	112.5	27/12/2022	8:00	0.4	112.5	28/12/2022	8:00	0.4	112.5
25/12/2022	9:00	0.9	112.5	26/12/2022	9:00	0.9	112.5	27/12/2022	9:00	0.9	135	28/12/2022	9:00	0.9	112.5
25/12/2022	10:00	1.3	112.5	26/12/2022	10:00	1.3	112.5	27/12/2022	10:00	0.4	112.5	28/12/2022	10:00	0.9	112.5
25/12/2022	11:00	0.9	112.5	26/12/2022	11:00	0.9	112.5	27/12/2022	11:00	0	112.5	28/12/2022	11:00	1.3	112.5
25/12/2022	12:00	0.9	247.5	26/12/2022	12:00	0.9	247.5	27/12/2022	12:00	0.4	135	28/12/2022	12:00	0	90
25/12/2022	13:00	0.9	112.5	26/12/2022	13:00	0.9	112.5	27/12/2022	13:00	1.3	112.5	28/12/2022	13:00	0.4	22.5
25/12/2022	14:00	0.4	135	26/12/2022	14:00	0.4	135	27/12/2022	14:00	0.9	112.5	28/12/2022	14:00	0.4	112.5
25/12/2022	15:00	0.4	135	26/12/2022	15:00	0.4	135	27/12/2022	15:00	0.9	112.5	28/12/2022	15:00	0.4	135
25/12/2022	16:00	0.4	112.5	26/12/2022	16:00	0.4	112.5	27/12/2022	16:00	0.9	135	28/12/2022	16:00	0.9	270
25/12/2022	17:00	0.4	112.5	26/12/2022	17:00	0.4	112.5	27/12/2022	17:00	0.4	112.5	28/12/2022	17:00	0.9	225
25/12/2022	18:00	1.3	112.5	26/12/2022	18:00	1.3	112.5	27/12/2022	18:00	0.9	112.5	28/12/2022	18:00	0.4	225
25/12/2022	19:00	0.4	112.5	26/12/2022	19:00	0.4	112.5	27/12/2022	19:00	0.4	90	28/12/2022	19:00	0.4	225
25/12/2022	20:00	0.4	135	26/12/2022	20:00	0.4	135	27/12/2022	20:00	0.9	45	28/12/2022	20:00	0.9	135
25/12/2022	21:00	0.9	112.5	26/12/2022	21:00	0.9	112.5	27/12/2022	21:00	0.9	90	28/12/2022	21:00	0	270
25/12/2022	22:00	0.4	112.5	26/12/2022	22:00	0.4	112.5	27/12/2022	22:00	0.9	112.5	28/12/2022	22:00	0.4	225
25/12/2022	23:00	0	180	26/12/2022	23:00	0	180	27/12/2022	23:00	0.4	135	28/12/2022	23:00	0.4	247.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/12/2022	0:00	0.4	67.5	30/12/2022	0:00	0.4	135	31/12/2022	0:00	0.4					
29/12/2022	1:00	0.9	112.5	30/12/2022	1:00	0.4	157.5	31/12/2022	1:00	0.9					
29/12/2022	2:00	1.3	90	30/12/2022	2:00	0.4	90	31/12/2022	2:00	0.9					
29/12/2022	3:00	0.9	112.5	30/12/2022	3:00	0.4	315	31/12/2022	3:00	1.3					
29/12/2022	4:00	0.9	90	30/12/2022	4:00	0.9	22.5	31/12/2022	4:00	0.9					
29/12/2022	5:00	0.9	90	30/12/2022	5:00	1.3	0	31/12/2022	5:00	1.3					
29/12/2022	6:00	0.9	67.5	30/12/2022	6:00	1.3	0	31/12/2022	6:00	1.3					
29/12/2022	7:00	0.4	112.5	30/12/2022	7:00	0.9	337.5	31/12/2022	7:00	0.9					
29/12/2022	8:00	0.4	135	30/12/2022	8:00	1.3	337.5	31/12/2022	8:00	0.4					
29/12/2022	9:00	0.4	112.5	30/12/2022	9:00	0.9	22.5	31/12/2022	9:00	0.9					
29/12/2022	10:00	0.9	112.5	30/12/2022	10:00	0.4	90	31/12/2022	12:00	1.3					
29/12/2022	11:00	0.9	112.5	30/12/2022	11:00	0.4	112.5	31/12/2022	12:00	1.3					
29/12/2022	12:00	0.9	90	30/12/2022	12:00	0.4	135	31/12/2022	12:00	0.4					
29/12/2022	13:00	0.9	112.5	30/12/2022	13:00	0.9	67.5	31/12/2022	13:00	0.9					
29/12/2022	14:00	0.4	112.5	30/12/2022	14:00	0.9	90	31/12/2022	14:00	0.4					
29/12/2022	15:00	0.4	45	30/12/2022	15:00	0.9	45	31/12/2022	15:00	0.4					
29/12/2022	16:00	0.4	67.5	30/12/2022	16:00	0.9	90	31/12/2022	16:00	0.4					
29/12/2022	17:00	0.4	67.5	30/12/2022	17:00	0.9	67.5	31/12/2022	17:00	0.4					
29/12/2022	18:00	0.9	112.5	30/12/2022	18:00	0.9	90	31/12/2022	18:00	1.3					
29/12/2022	19:00	1.3	90	30/12/2022	19:00	0.9	90	31/12/2022	19:00	1.3					
29/12/2022	20:00	0.9	112.5	30/12/2022	20:00	0.9	90	31/12/2022	20:00	0.9					
29/12/2022	21:00	0.9	90	30/12/2022	21:00	0.9	90	31/12/2022	21:00	0.4					
29/12/2022	22:00	0.9	90	30/12/2022	22:00	0.9	45	31/12/2022	22:00	0.4					
29/12/2022	23:00	0.9	67.5	30/12/2022	23:00	0.9	67.5	31/12/2022	23:00	0.4					

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
01/01/2023	0:00	1.3	90	02/01/2023	0:00	0.9	45	03/01/2023	0:00	1.3	22.5	04/01/2023	0:00	1.3	22.5
01/01/2023	1:00	1.3	112.5	02/01/2023	1:00	0.9	22.5	03/01/2023	1:00	1.3	135	04/01/2023	1:00	1.3	112.5
01/01/2023	2:00	1.3	135	02/01/2023	2:00	0.9	247.5	03/01/2023	2:00	1.3	90	04/01/2023	2:00	1.3	135
01/01/2023	3:00	1.3	90	02/01/2023	3:00	0.9	22.5	03/01/2023	3:00	1.8	112.5	04/01/2023	3:00	0.4	135
01/01/2023	4:00	0.9	67.5	02/01/2023	4:00	1.3	0	03/01/2023	4:00	1.3	90	04/01/2023	4:00	0.4	112.5
01/01/2023	5:00	1.3	112.5	02/01/2023	5:00	0.4	45	03/01/2023	5:00	1.3	112.5	04/01/2023	5:00	0.9	90
01/01/2023	6:00	0.9	90	02/01/2023	6:00	1.3	247.5	03/01/2023	6:00	0.4	112.5	04/01/2023	6:00	1.8	45
01/01/2023	7:00	0.9	90	02/01/2023	7:00	1.3	0	03/01/2023	7:00	0.4	112.5	04/01/2023	7:00	1.8	112.5
01/01/2023	8:00	1.3	135	02/01/2023	8:00	0.9	112.5	03/01/2023	8:00	0.4	247.5	04/01/2023	8:00	1.3	90
01/01/2023	9:00	0.9	112.5	02/01/2023	9:00	0.9	337.5	03/01/2023	9:00	0.9	247.5	04/01/2023	9:00	0.9	90
01/01/2023	10:00	0.9	112.5	02/01/2023	10:00	1.3	22.5	03/01/2023	10:00	0.9	180	04/01/2023	10:00	1.8	112.5
01/01/2023	11:00	0.9	90	02/01/2023	11:00	1.3	22.5	03/01/2023	11:00	0.9	247.5	04/01/2023	11:00	0.9	135
01/01/2023	12:00	0.9	90	02/01/2023	12:00	0.9	22.5	03/01/2023	12:00	1.3	270	04/01/2023	12:00	0.9	90
01/01/2023	13:00	0.4	112.5	02/01/2023	13:00	1.3	112.5	03/01/2023	13:00	1.3	247.5	04/01/2023	13:00	0.4	135
01/01/2023	14:00	0.4	112.5	02/01/2023	14:00	0.9	112.5	03/01/2023	14:00	0.9	67.5	04/01/2023	14:00	0.4	90
01/01/2023	15:00	0.4	112.5	02/01/2023	15:00	0.9	112.5	03/01/2023	15:00	0.9	90	04/01/2023	15:00	0.9	22.5
01/01/2023	16:00	0.4	112.5	02/01/2023	16:00	0.4	112.5	03/01/2023	16:00	0.9	90	04/01/2023	16:00	0.4	292.5
01/01/2023	17:00	0.9	90	02/01/2023	17:00	0.4	135	03/01/2023	17:00	1.3	45	04/01/2023	17:00	0.4	157.5
01/01/2023	18:00	0.4	90	02/01/2023	18:00	0.9	112.5	03/01/2023	18:00	0.9	67.5	04/01/2023	18:00	0.9	112.5
01/01/2023	19:00	0.9	90	02/01/2023	19:00	0.9	112.5	03/01/2023	19:00	0.4	22.5	04/01/2023	19:00	1.3	90
01/01/2023	20:00	0.9	112.5	02/01/2023	20:00	0.4	135	03/01/2023	20:00	1.3	292.5	04/01/2023	20:00	0.4	90
01/01/2023	21:00	0.9	90	02/01/2023	21:00	0.4	90	03/01/2023	21:00	0.9	337.5	04/01/2023	21:00	0.9	67.5
01/01/2023	22:00	0.9	90	02/01/2023	22:00	0.9	112.5	03/01/2023	22:00	1.3	337.5	04/01/2023	22:00	0.9	90
01/01/2023	23:00	0.9	90	02/01/2023	23:00	0.4	90	03/01/2023	23:00	0.4	247.5	04/01/2023	23:00	0.9	22.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
05/01/2023	0:00	0.4	22.5	06/01/2023	0:00	0.9	112.5	07/01/2023	0:00	1.3	135	08/01/2023	0:00	0.9	90
05/01/2023	1:00	0.4	337.5	06/01/2023	1:00	0.4	112.5	07/01/2023	1:00	0.9	135	08/01/2023	1:00	0.9	135
05/01/2023	2:00	0.9	225	06/01/2023	2:00	0.9	112.5	07/01/2023	2:00	1.3	135	08/01/2023	2:00	0.9	90
05/01/2023	3:00	0.4	22.5	06/01/2023	3:00	0.9	112.5	07/01/2023	3:00	1.3	112.5	08/01/2023	3:00	0.9	45
05/01/2023	4:00	0.4	22.5	06/01/2023	4:00	0.4	45	07/01/2023	4:00	1.3	112.5	08/01/2023	4:00	1.3	112.5
05/01/2023	5:00	0.4	202.5	06/01/2023	5:00	1.3	202.5	07/01/2023	5:00	0.9	112.5	08/01/2023	5:00	1.3	45
05/01/2023	6:00	0.4	202.5	06/01/2023	6:00	1.3	90	07/01/2023	6:00	0.9	112.5	08/01/2023	6:00	0.9	90
05/01/2023	7:00	0.4	112.5	06/01/2023	7:00	0.9	90	07/01/2023	7:00	1.3	202.5	08/01/2023	7:00	0.4	112.5
05/01/2023	8:00	0.4	90	06/01/2023	8:00	1.8	22.5	07/01/2023	8:00	1.3	112.5	08/01/2023	8:00	0.9	90
05/01/2023	9:00	0.9	22.5	06/01/2023	9:00	0.9	45	07/01/2023	9:00	1.3	112.5	08/01/2023	9:00	1.3	90
05/01/2023	10:00	0.9	112.5	06/01/2023	10:00	0.4	112.5	07/01/2023	10:00	0.9	67.5	08/01/2023	10:00	0.9	90
05/01/2023	11:00	0.4	112.5	06/01/2023	11:00	0.9	45	07/01/2023	11:00	0.9	112.5	08/01/2023	11:00	0.9	135
05/01/2023	12:00	0.4	112.5	06/01/2023	12:00	1.3	22.5	07/01/2023	12:00	1.8	112.5	08/01/2023	12:00	0.9	90
05/01/2023	13:00	1.3	135	06/01/2023	13:00	1.3	270	07/01/2023	13:00	1.3	90	08/01/2023	13:00	0.4	45
05/01/2023	14:00	0.4	135	06/01/2023	14:00	0.9	202.5	07/01/2023	14:00	1.3	90	08/01/2023	14:00	0.4	22.5
05/01/2023	15:00	0.4	112.5	06/01/2023	15:00	2.2	202.5	07/01/2023	15:00	0.9	67.5	08/01/2023	15:00	0.9	45
05/01/2023	16:00	0.4	112.5	06/01/2023	16:00	1.8	135	07/01/2023	16:00	1.3	90	08/01/2023	16:00	1.3	22.5
05/01/2023	17:00	0.9	112.5	06/01/2023	17:00	1.8	135	07/01/2023	17:00	1.8	112.5	08/01/2023	17:00	0.9	202.5
05/01/2023	18:00	0.4	112.5	06/01/2023	18:00	2.2	112.5	07/01/2023	18:00	2.2	112.5	08/01/2023	18:00	0.9	292.5
05/01/2023	19:00	0.4	112.5	06/01/2023	19:00	2.2	112.5	07/01/2023	19:00	1.3	112.5	08/01/2023	19:00	0.9	337.5
05/01/2023	20:00	0.4	202.5	06/01/2023	20:00	1.3	135	07/01/2023	20:00	1.3	112.5	08/01/2023	20:00	0.9	90
05/01/2023	21:00	0.4	112.5	06/01/2023	21:00	0.9	112.5	07/01/2023	21:00	1.3	202.5	08/01/2023	21:00	0.4	45
05/01/2023	22:00	0.4	135	06/01/2023	22:00	1.8	202.5	07/01/2023	22:00	1.3	45	08/01/2023	22:00	0.4	45
05/01/2023	23:00	0.9	112.5	06/01/2023	23:00	1.3	202.5	07/01/2023	23:00	1.3	90	08/01/2023	23:00	0.4	22.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
09/01/2023	0:00	1.3	135	10/01/2023	0:00	1.3	135	11/01/2023	0:00	0.9	112.5	12/01/2023	0:00	1.3	112.5
09/01/2023	1:00	0.9	45	10/01/2023	1:00	0.9	45	11/01/2023	1:00	0.9	67.5	12/01/2023	1:00	1.8	90
09/01/2023	2:00	1.3	45	10/01/2023	2:00	1.3	45	11/01/2023	2:00	0.9	112.5	12/01/2023	2:00	1.8	90
09/01/2023	3:00	0.9	45	10/01/2023	3:00	0.9	45	11/01/2023	3:00	1.3	112.5	12/01/2023	3:00	1.3	112.5
09/01/2023	4:00	0.9	135	10/01/2023	4:00	0.9	135	11/01/2023	4:00	1.3	67.5	12/01/2023	4:00	0.9	112.5
09/01/2023	5:00	0.4	112.5	10/01/2023	5:00	0.4	112.5	11/01/2023	5:00	0.9	67.5	12/01/2023	5:00	1.3	112.5
09/01/2023	6:00	0.4	90	10/01/2023	6:00	0.4	90	11/01/2023	6:00	0.9	90	12/01/2023	6:00	1.8	112.5
09/01/2023	7:00	0.9	112.5	10/01/2023	7:00	0.9	112.5	11/01/2023	7:00	0.4	180	12/01/2023	7:00	0.9	90
09/01/2023	8:00	0.4	292.5	10/01/2023	8:00	0.4	292.5	11/01/2023	8:00	0.4	180	2/01/2023	8:00	1.3	90
09/01/2023	9:00	0.4	292.5	10/01/2023	9:00	0.4	292.5	11/01/2023	9:00	0.9	112.5	12/01/2023	9:00	1.3	112.5
09/01/2023	10:00	0.9	180	10/01/2023	10:00	0.9	180	11/01/2023	10:00	0.4	202.5	12/01/2023	10:00	0.9	112.5
09/01/2023	11:00	0.9	180	10/01/2023	11:00	0.9	180	11/01/2023	11:00	0.4	112.5	12/01/2023	11:00	1.3	112.5
09/01/2023	12:00	1.3	22.5	10/01/2023	12:00	1.3	22.5	11/01/2023	12:00	0.4	180	12/01/2023	12:00	0.9	112.5
09/01/2023	13:00	0.9	112.5	10/01/2023	13:00	0.9	112.5	11/01/2023	13:00	0.4	112.5	12/01/2023	13:00	1.3	112.5
09/01/2023	14:00	0.4	90	10/01/2023	14:00	0.4	90	11/01/2023	14:00	0.4	112.5	12/01/2023	14:00	1.8	22.5
09/01/2023	15:00	0.4	112.5	10/01/2023	15:00	0.4	112.5	11/01/2023	15:00	0.4	112.5	12/01/2023	15:00	2.7	135
09/01/2023	16:00	0.9	135	10/01/2023	16:00	0.9	135	11/01/2023	16:00	0.9	90	12/01/2023	16:00	0.4	180
09/01/2023	17:00	0.9	135	10/01/2023	17:00	0.9	135	11/01/2023	17:00	1.3	112.5	12/01/2023	17:00	0.9	337.5
09/01/2023	18:00	1.3	112.5	10/01/2023	18:00	1.3	112.5	11/01/2023	18:00	1.3	90	12/01/2023	18:00	1.3	22.5
09/01/2023	19:00	1.3	135	10/01/2023	19:00	1.3	135	11/01/2023	19:00	1.8	90	12/01/2023	19:00	1.3	67.5
09/01/2023	20:00	1.3	90	10/01/2023	20:00	1.3	90	11/01/2023	20:00	1.8	90	12/01/2023	20:00	1.3	337.5
09/01/2023	21:00	0.9	90	10/01/2023	21:00	0.9	90	11/01/2023	21:00	1.8	90	12/01/2023	21:00	0.9	22.5
09/01/2023	22:00	0.9	112.5	10/01/2023	22:00	0.9	112.5	11/01/2023	22:00	0.4	112.5	12/01/2023	22:00	2.2	22.5
09/01/2023	23:00	1.3	1	10/01/2023	23:00	1.3	1	11/01/2023	23:00	0.4	157.5	12/01/2023	23:00	1.8	22.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
13/01/2023	0:00	0.4	67.5	14/01/2023	0:00	0.9	112.5	15/01/2023	0:00	1.3	90	16/01/2023	0:00	0.9	112.5
13/01/2023	1:00	0.9	45	14/01/2023	1:00	0.9	135	15/01/2023	1:00	1.3	135	16/01/2023	1:00	1.3	90
13/01/2023	2:00	0.4	67.5	14/01/2023	2:00	0.9	112.5	15/01/2023	2:00	0.9	112.5	16/01/2023	2:00	1.3	112.5
13/01/2023	3:00	0.4	67.5	14/01/2023	3:00	0.9	135	15/01/2023	3:00	1.3	112.5	16/01/2023	3:00	1.3	112.5
13/01/2023	4:00	0.4	67.5	14/01/2023	4:00	0.9	112.5	15/01/2023	4:00	1.3	112.5	16/01/2023	4:00	0.9	112.5
13/01/2023	5:00	0.9	90	14/01/2023	5:00	0.9	90	15/01/2023	5:00	1.3	90	16/01/2023	5:00	0.9	112.5
13/01/2023	6:00	0.9	112.5	14/01/2023	6:00	0.4	135	15/01/2023	6:00	1.3	90	16/01/2023	6:00	1.3	112.5
13/01/2023	7:00	1.3	90	14/01/2023	7:00	0.4	90	15/01/2023	7:00	0.9	90	16/01/2023	7:00	1.3	135
13/01/2023	8:00	1.3	67.5	14/01/2023	8:00	0.9	135	15/01/2023	8:00	0.9	135	16/01/2023	8:00	0.9	112.5
13/01/2023	9:00	0.4	67.5	14/01/2023	9:00	0.9	90	15/01/2023	9:00	0.9	135	16/01/2023	9:00	0.9	112.5
13/01/2023	10:00	0.4	67.5	14/01/2023	10:00	0.4	135	15/01/2023	10:00	0.9	22.5	16/01/2023	10:00	1.3	112.5
13/01/2023	11:00	0.4	45	14/01/2023	11:00	0.9	90	15/01/2023	11:00	0.4	157.5	16/01/2023	11:00	0.9	112.5
13/01/2023	12:00	1.3	112.5	14/01/2023	12:00	0.9	90	15/01/2023	12:00	0.4	67.5	16/01/2023	12:00	0.9	135
13/01/2023	13:00	1.3	112.5	14/01/2023	13:00	0.4	112.5	15/01/2023	13:00	0.9	112.5	16/01/2023	13:00	0.9	112.5
13/01/2023	14:00	0.4	135	14/01/2023	14:00	0.9	112.5	15/01/2023	14:00	0.9	112.5	16/01/2023	14:00	0.4	135
13/01/2023	15:00	0.4	135	14/01/2023	15:00	0.9	135	15/01/2023	15:00	0.9	112.5	16/01/2023	15:00	0.9	90
13/01/2023	16:00	0.9	112.5	14/01/2023	16:00	0.9	112.5	15/01/2023	16:00	0.9	112.5	16/01/2023	16:00	0.9	157.5
13/01/2023	17:00	0.9	112.5	14/01/2023	17:00	0.9	112.5	15/01/2023	17:00	1.3	90	16/01/2023	17:00	0.4	135
13/01/2023	18:00	0.4	112.5	14/01/2023	18:00	0.9	112.5	15/01/2023	18:00	0.9	135	16/01/2023	18:00	0.4	112.5
13/01/2023	19:00	0.9	90	14/01/2023	19:00	0.9	112.5	15/01/2023	19:00	0.9	135	16/01/2023	19:00	0.9	135
13/01/2023	20:00	0.9	112.5	14/01/2023	20:00	0.9	112.5	15/01/2023	20:00	0.9	112.5	16/01/2023	20:00	0.9	112.5
13/01/2023	21:00	0.9	90	14/01/2023	21:00	0.9	112.5	15/01/2023	21:00	0.4	112.5	16/01/2023	21:00	0.9	90
13/01/2023	22:00	0.9	112.5	14/01/2023	22:00	0.9	112.5	15/01/2023	22:00	0.9	112.5	16/01/2023	22:00	0.9	135
13/01/2023	23:00	0.9	180	14/01/2023	23:00	0.4	112.5	15/01/2023	23:00	0.4	112.5	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	0.9	112.5	18/01/2023	0:00	0.9	225	19/01/2023	0:00	0.9	247.5	20/01/2023	0:00	1.3	112.5
17/01/2023	1:00	1.3	90	18/01/2023	1:00	0.9	180	19/01/2023	1:00	0.9	270	20/01/2023	1:00	1.3	112.5
17/01/2023	2:00	1.3	90	18/01/2023	2:00	1.3	202.5	19/01/2023	2:00	0.9	270	20/01/2023	2:00	1.3	135
17/01/2023	3:00	0.9	112.5	18/01/2023	3:00	0.9	202.5	19/01/2023	3:00	0.4	247.5	20/01/2023	3:00	0.9	112.5
17/01/2023	4:00	0.9	90	18/01/2023	4:00	0.4	225	19/01/2023	4:00	0.9	247.5	20/01/2023	4:00	0.9	90
17/01/2023	5:00	0.9	112.5	18/01/2023	5:00	0.9	247.5	19/01/2023	5:00	0.9	247.5	20/01/2023	5:00	1.3	112.5
17/01/2023	6:00	1.3	90	18/01/2023	6:00	0.9	270	19/01/2023	6:00	0.9	135	20/01/2023	6:00	0.9	112.5
17/01/2023	7:00	1.3	67.5	18/01/2023	7:00	0.9	315	19/01/2023	7:00	0.9	112.5	20/01/2023	7:00	1.3	112.5
17/01/2023	8:00	1.8	135	18/01/2023	8:00	0.9	67.5	19/01/2023	8:00	0.9	112.5	20/01/2023	8:00	1.3	90
17/01/2023	9:00	1.8	135	18/01/2023	9:00	0.9	67.5	19/01/2023	9:00	1.3	112.5	20/01/2023	9:00	0.9	112.5
17/01/2023	10:00	1.8	90	18/01/2023	10:00	0.9	67.5	19/01/2023	10:00	1.3	112.5	20/01/2023	10:00	0.9	135
17/01/2023	11:00	2.2	135	18/01/2023	11:00	0.4	112.5	19/01/2023	11:00	0.4	90	20/01/2023	11:00	0.9	112.5
17/01/2023	12:00	1.8	135	18/01/2023	12:00	0.9	112.5	19/01/2023	12:00	0.4	112.5	20/01/2023	12:00	0.9	112.5
17/01/2023	13:00	0.9	135	18/01/2023	13:00	0.9	112.5	19/01/2023	13:00	0.4	112.5	20/01/2023	13:00	1.3	112.5
17/01/2023	14:00	0.9	90	18/01/2023	14:00	1.3	157.5	19/01/2023	14:00	0.9	247.5	20/01/2023	14:00	0.9	112.5
17/01/2023	15:00	1.3	180	18/01/2023	15:00	1.3	135	19/01/2023	15:00	1.3	270	20/01/2023	15:00	1.3	112.5
17/01/2023	16:00	1.3	157.5	18/01/2023	16:00	1.3	90	19/01/2023	16:00	0.9	270	20/01/2023	16:00	1.3	112.5
17/01/2023	17:00	1.3	90	18/01/2023	17:00	1.3	112.5	19/01/2023	17:00	0.9	225	20/01/2023	17:00	0.4	112.5
17/01/2023	18:00	1.3	90	18/01/2023	18:00	1.3	112.5	19/01/2023	18:00	0.4	112.5	20/01/2023	18:00	0.4	112.5
17/01/2023	19:00	1.3	135	18/01/2023	19:00	0.4	135	19/01/2023	19:00	0.9	112.5	20/01/2023	19:00	0.4	112.5
17/01/2023	20:00	1.3	112.5	18/01/2023	20:00	0.4	112.5	19/01/2023	20:00	0.4	112.5	20/01/2023	20:00	0.4	112.5
17/01/2023	21:00	1.3	112.5	18/01/2023	21:00	0.4	112.5	19/01/2023	21:00	0.9	135	20/01/2023	21:00	0.4	112.5
17/01/2023	22:00	0.9	112.5	18/01/2023	22:00	0.4	90	19/01/2023	22:00	0.4	135	20/01/2023	22:00	0.4	112.5
17/01/2023	23:00	0.9	135	18/01/2023	23:00	0.9	112.5	19/01/2023	23:00	0.9	247.5	20/01/2023	23:00	0.4	112.5

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

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	0.4	135	22/01/2023	0:00	0.4	22.5	23/01/2023	0:00	0.4	22.5	24/01/2023	0:00	0.9	112.5
21/01/2023	1:00	0.4	90	22/01/2023	1:00	0.4	270	23/01/2023	1:00	0	135	24/01/2023	1:00	0.4	135
21/01/2023	2:00	0.4	135	22/01/2023	2:00	0.9	45	23/01/2023	2:00	0.4	292.5	24/01/2023	2:00	0.9	135
21/01/2023	3:00	0.4	135	22/01/2023	3:00	0.9	157.5	23/01/2023	3:00	0	90	24/01/2023	3:00	0.4	112.5
21/01/2023	4:00	0.9	90	22/01/2023	4:00	0.4	67.5	23/01/2023	4:00	0.4	112.5	24/01/2023	4:00	0.9	90
21/01/2023	5:00	0.9	135	22/01/2023	5:00	0.9	67.5	23/01/2023	5:00	0.9	112.5	24/01/2023	5:00	0.9	90
21/01/2023	6:00	1.3	90	22/01/2023	6:00	0.9	22.5	23/01/2023	6:00	0.9	135	24/01/2023	6:00	0.9	67.5
21/01/2023	7:00	1.3	22.5	22/01/2023	7:00	0.9	67.5	23/01/2023	7:00	0.9	90	24/01/2023	7:00	0.9	67.5
21/01/2023	8:00	1.3	112.5	22/01/2023	8:00	0.4	112.5	23/01/2023	8:00	0.9	45	24/01/2023	8:00	0.4	135
21/01/2023	9:00	0.9	90	22/01/2023	9:00	0.9	292.5	23/01/2023	9:00	0.9	45	24/01/2023	9:00	0.9	90
21/01/2023	10:00	1.3	112.5	22/01/2023	10:00	0.4	112.5	23/01/2023	10:00	0.4	135	24/01/2023	10:00	0.9	112.5
21/01/2023	11:00	1.3	112.5	22/01/2023	11:00	0.4	135	23/01/2023	11:00	0.9	135	24/01/2023	11:00	0.9	135
21/01/2023	12:00	1.3	112.5	22/01/2023	12:00	0.9	270	23/01/2023	12:00	0.4	112.5	24/01/2023	12:00	0.4	112.5
21/01/2023	13:00	0.9	112.5	22/01/2023	13:00	0.9	225	23/01/2023	13:00	0.9	112.5	24/01/2023	13:00	0.4	135
21/01/2023	14:00	0.9	90	22/01/2023	14:00	1.8	135	23/01/2023	14:00	0.4	90	24/01/2023	14:00	0.9	112.5
21/01/2023	15:00	0.4	90	22/01/2023	15:00	0.9	112.5	23/01/2023	15:00	1.3	112.5	24/01/2023	15:00	1.3	67.5
21/01/2023	16:00	0.9	22.5	22/01/2023	16:00	1.3	67.5	23/01/2023	16:00	1.3	112.5	24/01/2023	16:00	1.3	225
21/01/2023	17:00	0.9	45	22/01/2023	17:00	1.3	90	23/01/2023	17:00	1.3	135	24/01/2023	17:00	0.9	90
21/01/2023	18:00	0.9	67.5	22/01/2023	18:00	0.9	90	23/01/2023	18:00	1.3	112.5	24/01/2023	18:00	1.8	112.5
21/01/2023	19:00	0.9	112.5	22/01/2023	19:00	1.3	45	23/01/2023	19:00	1.3	112.5	24/01/2023	19:00	1.8	90
21/01/2023	20:00	1.3	112.5	22/01/2023	20:00	1.3	135	23/01/2023	20:00	0.9	135	24/01/2023	20:00	0.9	112.5
21/01/2023	21:00	0.4	90	22/01/2023	21:00	1.3	135	23/01/2023	21:00	0.9	112.5	24/01/2023	21:00	0.9	22.5
21/01/2023	22:00	1.3	90	22/01/2023	22:00	1.8	90	23/01/2023	22:00	1.3	112.5	24/01/2023	22:00	1.3	90
21/01/2023	23:00	0.9	90	22/01/2023	23:00	1.8	135	23/01/2023	23:00	0.9	135	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	1.3	112.5	26/01/2023	0:00	0.9	112.5	27/01/2023	0:00	0.9	22.5	28/01/2023	0:00	0.9	112.5
25/01/2023	1:00	1.3	112.5	26/01/2023	1:00	0.4	135	27/01/2023	1:00	0.9	0	28/01/2023	1:00	0.9	135
25/01/2023	2:00	1.3	135	26/01/2023	2:00	0.9	135	27/01/2023	2:00	0.9	45	28/01/2023	2:00	1.3	67.5
25/01/2023	3:00	1.3	112.5	26/01/2023	3:00	0.4	112.5	27/01/2023	3:00	0.9	45	28/01/2023	3:00	0.9	90
25/01/2023	4:00	1.3	112.5	26/01/2023	4:00	0.9	90	27/01/2023	4:00	1.3	112.5	28/01/2023	4:00	0.9	112.5
25/01/2023	5:00	0.9	135	26/01/2023	5:00	0.9	90	27/01/2023	5:00	0.9	112.5	28/01/2023	5:00	1.3	112.5
25/01/2023	6:00	0.9	112.5	26/01/2023	6:00	0.9	67.5	27/01/2023	6:00	0.9	112.5	28/01/2023	6:00	0.9	112.5
25/01/2023	7:00	1.3	112.5	26/01/2023	7:00	0.9	67.5	27/01/2023	7:00	0.4	67.5	28/01/2023	7:00	1.8	90
25/01/2023	8:00	0.9	135	26/01/2023	8:00	0.4	135	27/01/2023	8:00	0.4	22.5	28/01/2023	8:00	1.3	112.5
25/01/2023	9:00	0.9	90	26/01/2023	9:00	0.9	90	27/01/2023	9:00	0.9	67.5	28/01/2023	9:00	1.8	90
25/01/2023	10:00	1.3	112.5	26/01/2023	10:00	0.9	112.5	27/01/2023	10:00	0.9	22.5	28/01/2023	10:00	1.8	90
25/01/2023	11:00	1.3	112.5	26/01/2023	11:00	0.9	135	27/01/2023	11:00	0.4	45	28/01/2023	11:00	1.3	90
25/01/2023	12:00	1.3	135	26/01/2023	12:00	0.4	112.5	27/01/2023	12:00	0.4	67.5	28/01/2023	12:00	1.3	112.5
25/01/2023	13:00	1.8	135	26/01/2023	13:00	0.9	112.5	27/01/2023	13:00	0.4	67.5	28/01/2023	13:00	1.3	112.5
25/01/2023	14:00	0.4	112.5	26/01/2023	14:00	0.4	112.5	27/01/2023	14:00	0.4	90	28/01/2023	14:00	0.9	112.5
25/01/2023	15:00	0.4	112.5	26/01/2023	15:00	1.3	135	27/01/2023	15:00	0.4	270	28/01/2023	15:00	0.9	90
25/01/2023	16:00	0.4	112.5	26/01/2023	16:00	0.9	90	27/01/2023	16:00	0.9	112.5	28/01/2023	16:00	0.9	90
25/01/2023	17:00	0.9	112.5	26/01/2023	17:00	0.9	112.5	27/01/2023	17:00	0.4	112.5	28/01/2023	17:00	0.9	180
25/01/2023	18:00	0.4	90	26/01/2023	18:00	0.9	112.5	27/01/2023	18:00	0.4	112.5	28/01/2023	18:00	0.4	45
25/01/2023	19:00	0.4	112.5	26/01/2023	19:00	0.9	112.5	27/01/2023	19:00	0.4	90	28/01/2023	19:00	0.9	22.5
25/01/2023	20:00	0.4	112.5	26/01/2023	20:00	0.9	90	27/01/2023	20:00	1.3	112.5	28/01/2023	20:00	0.9	67.5
25/01/2023	21:00	0.4	90	26/01/2023	21:00	1.3	112.5	27/01/2023	21:00	1.3	112.5	28/01/2023	21:00	0.4	45
25/01/2023	22:00	0.9	90	26/01/2023	22:00	0.9	90	27/01/2023	22:00	0.9	112.5	28/01/2023	22:00	0.4	112.5
25/01/2023	23:00	0.9	112.5	26/01/2023	23:00	0.9	90	27/01/2023	23:00	0.9	112.5	28/01/2023	23:00	0.4	112.5

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

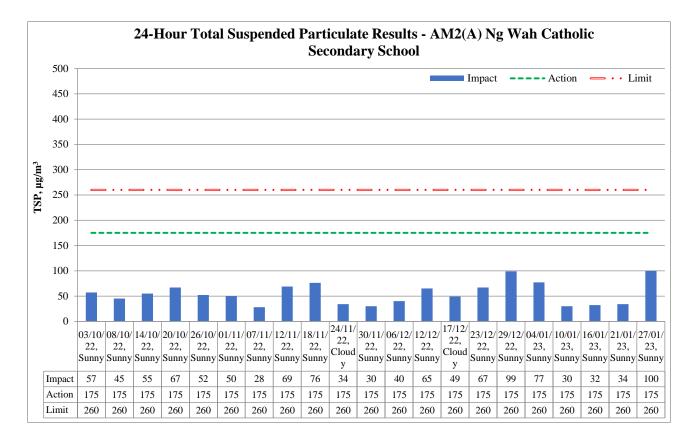
Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/01/2023	0:00	0.4	112.5	30/01/2023	0:00	0.4	225	31/01/2023	0:00	0.4	112.5				
29/01/2023	1:00	0.4	90	30/01/2023	1:00	0.4	112.5	31/01/2023	1:00	0.4	112.5				
29/01/2023	2:00	0.9	112.5	30/01/2023	2:00	0.4	90	31/01/2023	2:00	0.4	90				
29/01/2023	3:00	0.4	90	30/01/2023	3:00	0.9	112.5	31/01/2023	3:00	0.4	135				
29/01/2023	4:00	0.4	112.5	30/01/2023	4:00	0.4	90	31/01/2023	4:00	1.8	112.5				
29/01/2023	5:00	0.9	112.5	30/01/2023	5:00	0.4	112.5	31/01/2023	5:00	1.3	90				
29/01/2023	6:00	0.9	112.5	30/01/2023	6:00	0.9	112.5	31/01/2023	6:00	0.9	112.5				
29/01/2023	7:00	0.9	90	30/01/2023	7:00	0.9	112.5	31/01/2023	7:00	1.3	112.5				
29/01/2023	8:00	0.9	112.5	30/01/2023	8:00	0.9	90	31/01/2023	8:00	1.3	90				
29/01/2023	9:00	0.9	112.5	30/01/2023	9:00	0.9	112.5	31/01/2023	9:00	1.3	90				
29/01/2023	10:00	1.8	112.5	30/01/2023	10:00	0.9	112.5	31/01/2023	10:00	1.3	135				
29/01/2023	11:00	1.8	22.5	30/01/2023	11:00	1.8	112.5	31/01/2023	11:00	1.3	112.5				
29/01/2023	12:00	1.3	112.5	30/01/2023	12:00	1.8	22.5	31/01/2023	12:00	0.9	112.5				
29/01/2023	13:00	1.3	112.5	30/01/2023	13:00	1.3	112.5	31/01/2023	13:00	1.3	112.5				
29/01/2023	14:00	1.3	90	30/01/2023	14:00	0.9	90	31/01/2023	14:00	2.2	45				
29/01/2023	15:00	0.9	90	30/01/2023	15:00	1.3	202.5	31/01/2023	15:00	1.8	90				
29/01/2023	16:00	0.9	112.5	30/01/2023	16:00	0.9	112.5	31/01/2023	16:00	1.3	90				
29/01/2023	17:00	0.9	112.5	30/01/2023	17:00	0.9	112.5	31/01/2023	17:00	1.3	22.5				
29/01/2023	18:00	0.9	112.5	30/01/2023	18:00	0.4	90	31/01/2023	18:00	0.9	112.5				
29/01/2023	19:00	0.9	112.5	30/01/2023	19:00	0.4	112.5	31/01/2023	19:00	0.4	112.5				
29/01/2023	20:00	1.3	67.5	30/01/2023	20:00	0.9	135	31/01/2023	20:00	0.9	112.5				
29/01/2023	21:00	1.3	112.5	30/01/2023	21:00	0.9	67.5	31/01/2023	21:00	0.9	90				
29/01/2023	22:00	1.3	112.5	30/01/2023	22:00	0.4	112.5	31/01/2023	22:00	0.4	90				
29/01/2023	23:00	0.9	22.5	30/01/2023	23:00	0.4	112.5	31/01/2023	23:00	2.2	45				

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

Appendix D – Monitoring data and graphical plots

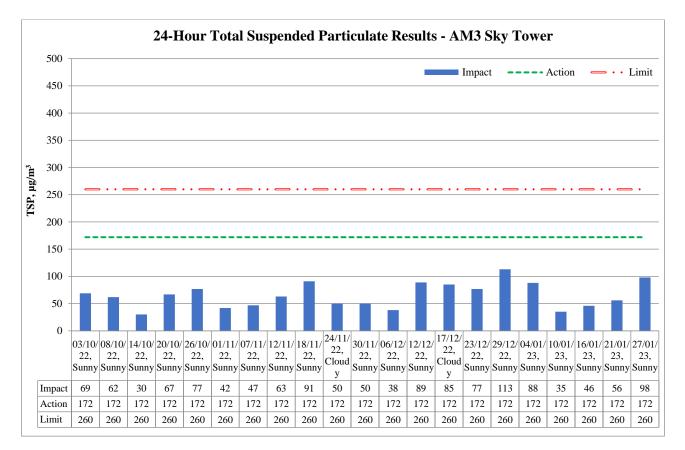
### 24-hour average TSP

Air Monito	ring Station	AM2(A) – Ng Wah Catholic Secondary School	AM3 – Sky Tower
Start Date	Weather	24-hr Average TSP	24-hr Average TSP
Start Date	weather	Concentration, $\mu g/m^3$	Concentration, $\mu g/m^3$
01/11/2022	Sunny	50	42
07/11/2022	Sunny	28	47
12/11/2022	Sunny	69	63
18/11/2022	Sunny	76	91
24/11/2022	Cloudy	34	50
30/11/2022	Sunny	30	50
06/12/2022	Sunny	40	38
12/12/2022	Sunny	65	89
17/12/2022	Cloudy	49	85
23/12/2022	Sunny	67	77
29/12/2022	Sunny	99	113
04/01/2023	Sunny	77	88
10/01/2023	Cloudy	30	35
16/01/2023	Cloudy	32	46
21/01/2023	Sunny	34	56
27/01/2023	Sunny	100	98



		Reportin	g Period	
Major Construction Activities	Oct	Nov	Dec	Jan
	2022	2022	2022	2023
Construction works at Crowd Dispersal Route	$\checkmark$			
Construction of DCS	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction works for Road L16	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction works for Olympic Avenue	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction works for additional run-in at Road L7		✓	✓	✓
Construction of gantry footing at launching shaft for subway SB-01				✓
Dismantling of gantry crane at casting yard			✓	$\checkmark$
ELS and excavation works at Sa Po Road			✓	$\checkmark$
ELS and excavation works for lift and staircase of LW-02				$\checkmark$
Post-piling tests and proof drilling for LW02 lift and staircase		$\checkmark$	$\checkmark$	
Pre-bored socket H-pile construction works for Slip Road S14	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Erection of falseworks and working platform for decking of Elevated Walkway	$\checkmark$	1	1	1
LW-02			•	•
UU diversion at Sa Po Road under TTA Stage 2A	$\checkmark$			
RC construction at launching shaft for subway SB-01	$\checkmark$	✓	✓	✓
Construction works for Pedestrian Street No. 2	$\checkmark$	✓	✓	
RC construction for Subway KS10 Lift and Staircase	$\checkmark$	✓	✓	✓
Renovation works for existing subways KS9, KS32 and KS10	$\checkmark$	✓	✓	✓
Mini pile construction works for LW-02 lift and staircase	$\checkmark$	✓		
Ground improvement works at Sa Po Road	$\checkmark$	$\checkmark$		

	Reporting Period					
Factors might affect the monitoring results	Oct	Nov	Dec	Jan		
	2022	2022	2022	2023		
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~		

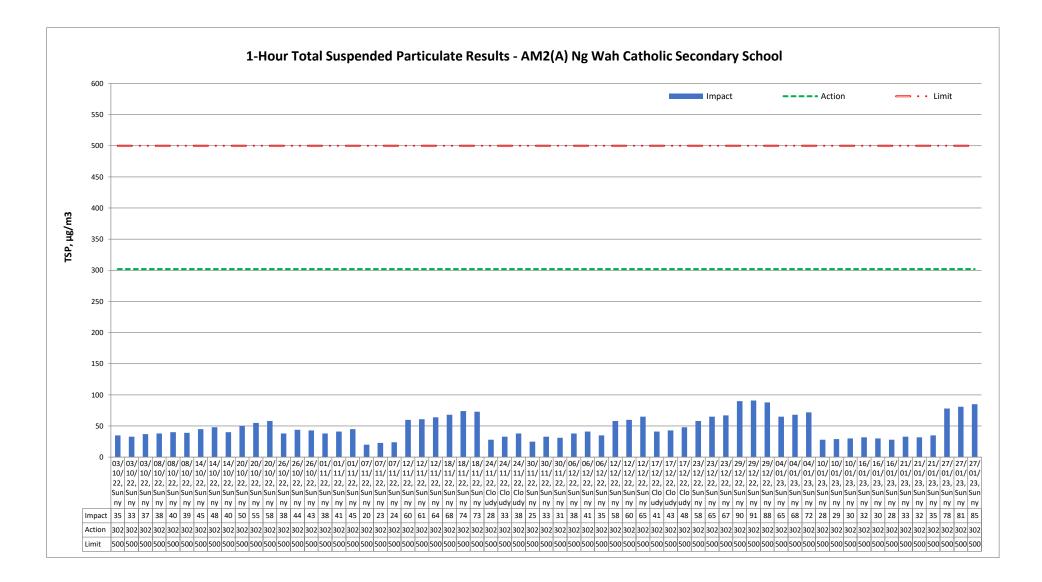


		Reportin	g Period	
Major Construction Activities	Oct	Nov	Dec	Jan
	2022	2022	2022	2023
Construction works at Crowd Dispersal Route	$\checkmark$			
Construction of DCS	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction works for Road L16	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction works for Olympic Avenue	$\checkmark$	✓	$\checkmark$	$\checkmark$
Construction works for additional run-in at Road L7		$\checkmark$	$\checkmark$	$\checkmark$
Construction of gantry footing at launching shaft for subway SB-01				$\checkmark$
Dismantling of gantry crane at casting yard			$\checkmark$	$\checkmark$
ELS and excavation works at Sa Po Road			$\checkmark$	$\checkmark$
ELS and excavation works for lift and staircase of LW-02				$\checkmark$
Post-piling tests and proof drilling for LW02 lift and staircase		$\checkmark$	$\checkmark$	
Pre-bored socket H-pile construction works for Slip Road S14	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Erection of falseworks and working platform for decking of Elevated Walkway	$\checkmark$	1	1	1
LW-02			•	•
UU diversion at Sa Po Road under TTA Stage 2A	$\checkmark$			
RC construction at launching shaft for subway SB-01	$\checkmark$	✓	$\checkmark$	$\checkmark$
Construction works for Pedestrian Street No. 2	$\checkmark$	✓	√	
RC construction for Subway KS10 Lift and Staircase	$\checkmark$	✓	✓	✓
Renovation works for existing subways KS9, KS32 and KS10	$\checkmark$	✓	✓	✓
Mini pile construction works for LW-02 lift and staircase	$\checkmark$	✓		
Ground improvement works at Sa Po Road	$\checkmark$	$\checkmark$		

		Reportin	ig Period	
Factors might affect the monitoring results	Oct 2022	Nov 2022	Dec 2022	Jan 2023
Non-project related construction activities in the adjacent construction sites were observed.	$\checkmark$	~	~	~

# 1-hour average TSP

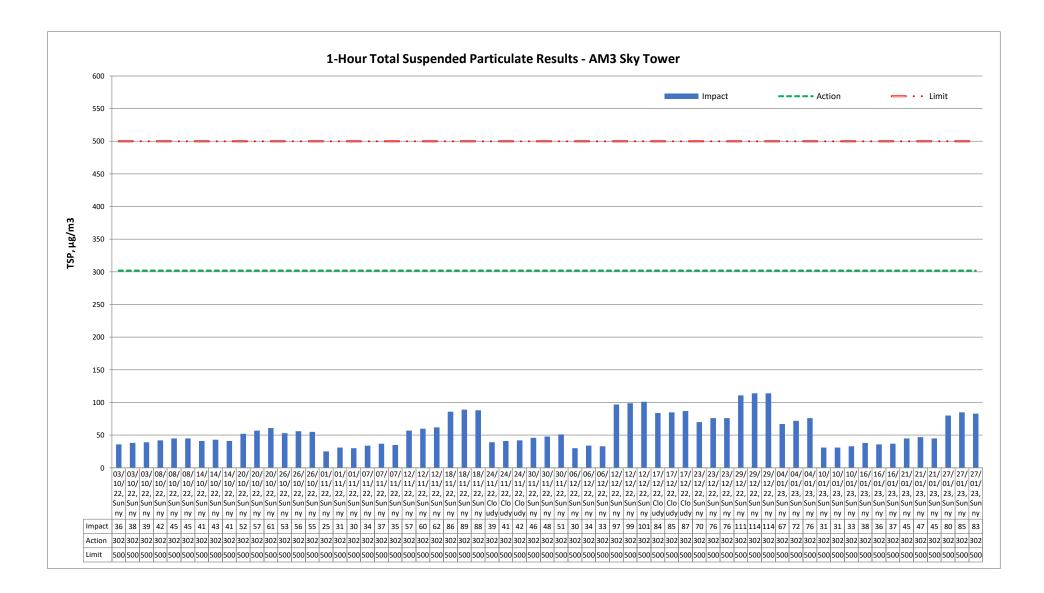
Air M	onitoring Sta	atior	1	AM2(A) – Ng Wah	Catholic Secondary School
					1-hr Average TSP Concentration,
Date	Measure	emer	nt Period	Weather	$\mu g/m^3$
01/11/2022	13:00	-	14:00		38
01/11/2022	14:00	-	15:00	Sunny	41
01/11/2022	15:00	-	16:00		45
07/11/2022	9:00	-	10:00		20
07/11/2022	10:00	-	11:00	Sunny	23
07/11/2022	11:00	-	12:00		24
12/11/2022	13:00	-	14:00		60
12/11/2022	14:00	-	15:00	Sunny	61
12/11/2022	15:00	-	16:00		64
18/11/2022	9:00	-	10:00		68
18/11/2022	10:00	-	11:00	Sunny	74
18/11/2022	11:00	-	12:00		73
24/11/2022	13:00	-	14:00		28
24/11/2022	14:00	-	15:00	Cloudy	33
24/11/2022	15:00	-	16:00		38
30/11/2022	9:00	-	10:00		25
30/11/2022	10:00	-	11:00	Sunny	33
30/11/2022	11:00	-	12:00		31
06/12/2022	13:00	-	14:00		38
06/12/2022	14:00	-	15:00	Sunny	41
06/12/2022	15:00	-	16:00		35
12/12/2022	9:00	-	10:00		58
12/12/2022	10:00	-	11:00	Sunny	60
12/12/2022	11:00	-	12:00		65
17/12/2022	13:00	-	14:00		41
17/12/2022	14:00	-	15:00	Cloudy	43
17/12/2022	15:00	-	16:00		48
23/12/2022	9:00	-	10:00		58
23/12/2022	10:00	-	11:00	Sunny	65
23/12/2022	11:00	-	12:00		67
29/12/2022	13:00	-	14:00		90
29/12/2022	14:00	-	15:00	Sunny	91
29/12/2022	15:00	-	16:00		88
04/01/2023	13:00	-	14:00		65
04/01/2023	14:00	-	15:00	Sunny	68
04/01/2023	15:00	-	16:00		72
10/01/2023	9:00	-	10:00		28
10/01/2023	10:00	-	11:00	Cloudy	29
10/01/2023	11:00	-	12:00		30
16/01/2023	13:00	-	14:00		32
16/01/2023	14:00	-	15:00	Cloudy	30
16/01/2023	15:00	-	16:00		28
21/01/2023	9:00	-	10:00		33
21/01/2023	10:00	-	11:00	Sunny	32
21/01/2023	11:00	-	12:00		35
27/01/2023	9:00	-	10:00		78
27/01/2023	10:00	-	11:00	Sunny	81
27/01/2023	11:00	-	12:00		85



		Reportin	g Period	
Major Construction Activities	Oct 2022	Nov 2022	Dec 2022	Jan 2023
Construction works at Crowd Dispersal Route	$\checkmark$			
Construction of DCS	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction works for Road L16	$\checkmark$	✓	$\checkmark$	$\checkmark$
Construction works for Olympic Avenue	$\checkmark$	✓	$\checkmark$	$\checkmark$
Construction works for additional run-in at Road L7		✓	$\checkmark$	$\checkmark$
Construction of gantry footing at launching shaft for subway SB-01				$\checkmark$
Dismantling of gantry crane at casting yard			✓	✓
ELS and excavation works at Sa Po Road			✓	✓
ELS and excavation works for lift and staircase of LW-02				✓
Post-piling tests and proof drilling for LW02 lift and staircase		✓	✓	
Pre-bored socket H-pile construction works for Slip Road S14	$\checkmark$	✓	$\checkmark$	$\checkmark$
Erection of falseworks and working platform for decking of Elevated Walkway LW-02	~	~	~	~
UU diversion at Sa Po Road under TTA Stage 2A	$\checkmark$			
RC construction at launching shaft for subway SB-01	$\checkmark$	✓	√	✓
Construction works for Pedestrian Street No. 2	$\checkmark$	√	√	
RC construction for Subway KS10 Lift and Staircase	$\checkmark$	✓	✓	✓
Renovation works for existing subways KS9, KS32 and KS10	$\checkmark$	✓	✓	✓
Mini pile construction works for LW-02 lift and staircase	✓	✓		
Ground improvement works at Sa Po Road	$\checkmark$	$\checkmark$		

	Reporting Period				
Factors might affect the monitoring results	Oct 2022	Nov 2022	Dec 2022	Jan 2023	
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	2023	

Air M	onitoring St	atio	n	AM3 –	Sky Tower
Date	Measure	men	nt Period	Weather	1-hr Average TSP Concentration, μg/m <sup>3</sup>
01/11/2022	9:00	-	10:00		25
01/11/2022	10:00	-	11:00	Sunny	31
01/11/2022	11:00	-	12:00		30
07/11/2022	13:00	-	14:00		34
07/11/2022	14:00	-	15:00	Sunny	37
07/11/2022	15:00	-	16:00	Sumy	35
12/11/2022	13:00	-	14:00		57
12/11/2022	14:00	-	15:00	Sunny	60
12/11/2022	15:00	-	16:00		62
18/11/2022	13:00	-	14:00		86
18/11/2022	14:00	-	15:00	Sunny	89
18/11/2022	15:00	-	16:00	j.	88
24/11/2022	9:00	-	10:00		39
24/11/2022	10:00	-	11:00	Cloudy	41
24/11/2022	11:00	-	12:00	1	42
30/11/2022	13:00	-	14:00		46
30/11/2022	14:00	-	15:00	Sunny	48
30/11/2022	15:00	-	16:00		51
06/12/2022	9:00	-	10:00		30
06/12/2022	10:00	-	11:00	Sunny	34
06/12/2022	11:00	-	12:00		33
12/12/2022	9:00	-	10:00		97
12/12/2022	10:00	-	11:00	Sunny	99
12/12/2022	11:00	-	12:00		101
17/12/2022	13:00	-	14:00		84
17/12/2022	14:00	-	15:00	Cloudy	85
17/12/2022	15:00	-	16:00		87
23/12/2022	13:00	-	14:00		70
23/12/2022	14:00	-	15:00	Sunny	76
23/12/2022	15:00	-	16:00		76
29/12/2022	9:00	-	10:00		111
29/12/2022	10:00	-	11:00	Sunny	114
29/12/2022	11:00	-	12:00		114
04/01/2023	9:00	-	10:00		67
04/01/2023	10:00	-	11:00	Sunny	72
04/01/2023	11:00	-	12:00		76
10/01/2023	13:00	-	14:00		31
10/01/2023	14:00	-	15:00	Cloudy	31
10/01/2023	15:00	-	16:00		33
16/01/2023	9:00	-	10:00		38
16/01/2023	10:00	-	11:00	Cloudy	36
16/01/2023	11:00	-	12:00		37
21/01/2023	13:00	-	14:00		45
21/01/2023	14:00	-	15:00	Sunny	47
21/01/2023	15:00	-	16:00		45
27/01/2023	13:00	-	14:00		80
27/01/2023	14:00	-	15:00	Sunny	85
27/01/2023	15:00	-	16:00		83



		Reportin	g Period	
Major Construction Activities	Oct 2022	Nov 2022	Dec 2022	Jan 2023
Construction works at Crowd Dispersal Route	$\checkmark$			
Construction of DCS	$\checkmark$	✓	✓	✓
Construction works for Road L16	$\checkmark$	✓	✓	✓
Construction works for Olympic Avenue	$\checkmark$	✓	✓	✓
Construction works for additional run-in at Road L7		✓	✓	✓
Construction of gantry footing at launching shaft for subway SB-01				$\checkmark$
Dismantling of gantry crane at casting yard			✓	✓
ELS and excavation works at Sa Po Road			√	✓
ELS and excavation works for lift and staircase of LW-02				✓
Post-piling tests and proof drilling for LW02 lift and staircase		✓	✓	
Pre-bored socket H-pile construction works for Slip Road S14	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Erection of falseworks and working platform for decking of Elevated Walkway LW-02	$\checkmark$	~	~	~
UU diversion at Sa Po Road under TTA Stage 2A	$\checkmark$			
RC construction at launching shaft for subway SB-01	$\checkmark$	✓	√	✓
Construction works for Pedestrian Street No. 2	$\checkmark$	✓	√	
RC construction for Subway KS10 Lift and Staircase	$\checkmark$	✓	✓	✓
Renovation works for existing subways KS9, KS32 and KS10	$\checkmark$	✓	✓	✓
Mini pile construction works for LW-02 lift and staircase	✓	✓		
Ground improvement works at Sa Po Road	$\checkmark$	$\checkmark$		

	Reporting Period				
Factors might affect the monitoring results	Oct 2022	Nov 2022	Dec 2022	Jan 2023	
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~	

### **30-minute Noise**

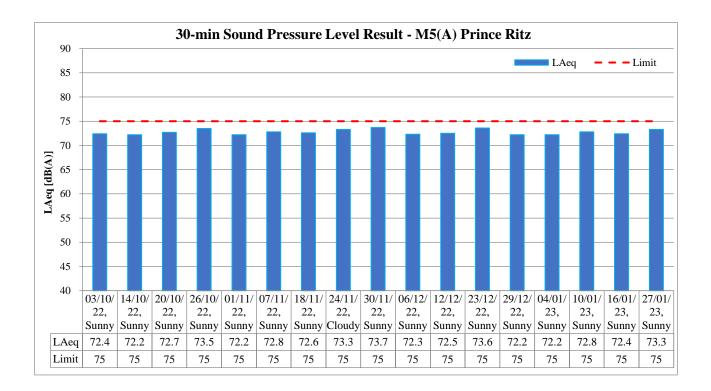
Noise Mo	onitoring	Sta	tion	M4(A) – Le Billionnaire					
Date		sure eric	ment od	Weather	$L_{Aeq,} dB(A)$	$L_{A10,} dB(A)$	$L_{A90,} dB(A)$		
01/11/2022	9:20	-	9:50	Sunny	69.6	70.9	68.4		
07/11/2022	13:15	-	13:45	Sunny	70.1	71.5	68.8		
18/11/2022	9:05	-	9:35	Sunny	69.4	70.7	68.3		
24/11/2022	13:20	-	13:50	Cloudy	69.8	71.2	68.5		
30/11/2022	13:20	-	13:50	Sunny	69.3	70.5	68.1		
06/12/2022	9:30	-	10:00	Sunny	69.8	71.2	68.6		
12/12/2022	9:10	-	9:40	Sunny	69.6	71.0	68.3		
23/12/2022	13:05	-	13:35	Sunny	70.1	71.8	68.8		
29/12/2022	13:20	-	13:50	Sunny	70.3	72.1	70.1		
04/01/2023	9:30	-	10:00	Sunny	69.7	71.1	68.3		
10/01/2023	13:15	-	13:45	Cloudy	69.4	70.8	68.1		
16/01/2023	13:10	-	13:40	Cloudy	69.8	71.3	68.5		
27/01/2023	9:26	-	9:56	Sunny	70.1	71.4	68.7		



		Reportin	g Period	
Major Construction Activities	Oct	Nov	Dec	Jan
	2022	2022	2022	2023
Construction works at Crowd Dispersal Route	$\checkmark$			
Construction of DCS	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction works for Road L16	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction works for Olympic Avenue	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction works for additional run-in at Road L7		$\checkmark$	$\checkmark$	$\checkmark$
Construction of gantry footing at launching shaft for subway SB-01				$\checkmark$
Dismantling of gantry crane at casting yard			$\checkmark$	$\checkmark$
ELS and excavation works at Sa Po Road			$\checkmark$	$\checkmark$
ELS and excavation works for lift and staircase of LW-02				$\checkmark$
Post-piling tests and proof drilling for LW02 lift and staircase		$\checkmark$	$\checkmark$	
Pre-bored socket H-pile construction works for Slip Road S14	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Erection of falseworks and working platform for decking of Elevated Walkway LW-02	$\checkmark$	~	~	~
UU diversion at Sa Po Road under TTA Stage 2A	$\checkmark$			
RC construction at launching shaft for subway SB-01	$\checkmark$	✓	✓	✓
Construction works for Pedestrian Street No. 2	$\checkmark$	✓	✓	
RC construction for Subway KS10 Lift and Staircase	$\checkmark$	✓	✓	✓
Renovation works for existing subways KS9, KS32 and KS10	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Mini pile construction works for LW-02 lift and staircase	$\checkmark$	$\checkmark$		
Ground improvement works at Sa Po Road	$\checkmark$	$\checkmark$		

	Reporting Period				
Factors might affect the monitoring results	Oct 2022	Nov 2022	Dec 2022	Jan 2023	
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~	

Noise Mo	onitoring	Sta	tion	M5(A) – Prince Ritz					
Date		Measurement Period		Weather	$L_{Aeq}, dB(A)$	$L_{A10,} dB(A)$	L <sub>A90,</sub> dB(A)		
01/11/2022	10:30	-	11:00	Sunny	72.2	73.7	69.6		
07/11/2022	14:25	-	14:55	Sunny	72.8	74.1	70.4		
18/11/2022	10:05	-	10:35	Sunny	72.6	73.9	70.2		
24/11/2022	14:30	-	15:00	Cloudy	73.3	74.7	71.7		
30/11/2022	9:40	-	10:10	Sunny	73.7	75.1	72.0		
06/12/2022	10:30	-	11:00	Sunny	72.3	73.9	69.4		
12/12/2022	13:15	-	13:45	Sunny	72.5	74.3	70.6		
23/12/2022	9:15	-	9:45	Sunny	73.6	75.0	71.8		
29/12/2022	14:30	-	15:00	Sunny	72.2	73.8	69.7		
04/01/2023	10:30	-	11:00	Sunny	72.2	73.9	69.6		
10/01/2023	14:30	-	15:00	Cloudy	72.8	74.7	70.3		
16/01/2023	14:25	-	14:55	Cloudy	72.4	74.0	69.8		
27/01/2023	10:21	-	10:51	Sunny	73.3	75.0	70.7		



		Reportin	g Period	
Major Construction Activities	Oct	Nov	Dec	Jan
	2022	2022	2022	2023
Construction works at Crowd Dispersal Route	$\checkmark$			
Construction of DCS	$\checkmark$	✓	✓	$\checkmark$
Construction works for Road L16	$\checkmark$	✓	$\checkmark$	$\checkmark$
Construction works for Olympic Avenue	$\checkmark$	✓	$\checkmark$	$\checkmark$
Construction works for additional run-in at Road L7		✓	$\checkmark$	$\checkmark$
Construction of gantry footing at launching shaft for subway SB-01				$\checkmark$
Dismantling of gantry crane at casting yard			✓	✓
ELS and excavation works at Sa Po Road			$\checkmark$	$\checkmark$
ELS and excavation works for lift and staircase of LW-02				$\checkmark$
Post-piling tests and proof drilling for LW02 lift and staircase		$\checkmark$	$\checkmark$	
Pre-bored socket H-pile construction works for Slip Road S14	$\checkmark$	✓	✓	✓
Erection of falseworks and working platform for decking of Elevated Walkway	$\checkmark$	1	1	1
LW-02	•	•	•	•
UU diversion at Sa Po Road under TTA Stage 2A	$\checkmark$			
RC construction at launching shaft for subway SB-01	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Construction works for Pedestrian Street No. 2	$\checkmark$	$\checkmark$	$\checkmark$	
RC construction for Subway KS10 Lift and Staircase	$\checkmark$	✓	✓	✓
Renovation works for existing subways KS9, KS32 and KS10	$\checkmark$	✓	✓	✓
Mini pile construction works for LW-02 lift and staircase	$\checkmark$	$\checkmark$		
Ground improvement works at Sa Po Road	$\checkmark$	$\checkmark$		

	Reporting Period				
Factors might affect the monitoring results	Oct 2022	Nov 2022	Dec 2022	Jan 2023	
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~	

Appendix E – Event and Action Plans for Construction Dust Monitoring, Construction Noise and Landscape and Visual Impact

<b>Event and Action Plans fo</b>	r Construction Dust Monitoring					
<b>F</b> 4		Ac	tion			
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 sampling	<ol> <li>Identify source and investigate the causes of exceedance;</li> <li>Inform Contractor, IEC and Supervisor /ER;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>Assess the effectiveness of Contractor's remedial actions;</li> <li>If exceedance continues, arrange meeting with IEC and Supervisor /ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ul> <li>submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the Supervisor /ER on the effectiveness of the proposed remedial</li> </ul>	<ol> <li>Confirm receipt of notification of exceedance 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 implementation of remedial measures;</li> <li>Conduct meeting with ET and IEC if exceedance continues.</li> </ol>	<ol> <li>Discuss with ET and IEC on proper remedial actions;</li> <li>Submit proposals for remedial actions to Supervisor /ER and IEC within three working day of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>		
Limit Level being exceeded by one sampling	<ol> <li>Identify source and investigate the causes of exceedance;</li> <li>Inform Contractor, IEC, Supervisor /ER, and EPD;</li> <li>Repeat measurement to confirm finding;</li> </ol>	e	notification of exceedance in writing; 2. Notify Contractor;	<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</li> </ol>		

Event and Action Plans fo	r Construction Dust Monitoring			
Event		Ac	tion	
Event	ЕТ	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> <li>If exceedance stop, cease additional monitoring.</li> </ol>	submitted by ET; 2. Check Contractor's working method;	<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>

F (	Action									
Event	ЕТ	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>	results submitted by the ET; 2. Review the proposed remedial measures submitted by the Contractor and advise the ER accordingly;	notification of failure in writing; 2. Notify Contractor; 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> </ol>	remedial actions with Supervisor /ER, ET and Contractor;	<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</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 o notification;</li> <li>Implement the agreed proposal;</li> <li>Submit further proposal i problem still not unde control;</li> <li>Stop the relevant portion o works as instructed by the Supervisor /ER until the exceedance is abated.</li> </ol>						

Event and Action Plans for Construction Noise									
Event	Action								
Event	ET	IEC	Supervisor / ER	Contractor					
	<ul> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD, and Supervisor /ER informed of the results;</li> <li>8. If exceedance stops, cease additional monitoring.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified.)</li> </ul>			/					

<b>F</b> (		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>	1. Undertake remedial design if necessary.	
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 F – Waste Flow Table

0	1	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of C&D Wastes Generated Monthly						
Month	Total Quantity Generated A + B	Broken Concrete Generated A	General fill Generated B	Broken Concrete Reused in the Contract	General Fill Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Import Fill	Metals	Paper / Cardboard Packaging	Plastics (3)	Chemical Waste	Other, e.g. general refuse
	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>2</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	1.91	0.00	1.91	0.00	1.20	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.01
FEB	0.66	0.03	0.63	0.00	0.30	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
MAR	0.97	0.00	0.97	0.00	0.25	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.01
APR	0.97	0.00	0.97	0.00	0.30	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.01
MAY	0.37	0.01	0.36	0.00	0.22	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.01
JUNE	0.47	0.00	0.47	0.00	0.22	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.01
SUB- TOTAL	5.35	0.04	5.31	0.00	2.49	0.00	2.82	0.00	0.00	0.00	0.00	0.00	0.05
JULY	1.88	0.00	1.88	0.00	0.35	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.01
AUG	1.73	0.00	1.73	0.00	0.28	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.01
SEPT	0.42	0.00	0.42	0.00	0.11	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.01
OCT	0.56	0.00	0.56	0.00	0.13	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.01
NOV	0.58	0.00	0.58	0.00	0.19	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.01
DEC	0.25	0.00	0.25	0.00	0.09	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.01
TOTAL	10.77	0.04	10.73	0.00	3.64	0.00	7.09	0.00	0.00	0.00	0.00	0.00	0.11

#### MONTHLY SUMMARY WASTE FLOW TABLE FOR \_\_\_\_\_ 2022 (YEAR)

	Actual Quantities of Inert C&D Materials Generated Monthly						Ac	tual Quantities o	of C&D Wastes	Generated Mon	thly		
Month	Total Quantity Generated A + B	Broken Concrete Generated A	General fill Generated B	Broken Concrete Reused in the Contract	General Fill Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Import Fill	Metals	Paper / Cardboard Packaging	Plastics (3)	Chemical Waste	Other, e.g. general refuse
	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m <sup>3</sup> ]
JAN	0.67	0.00	0.67	0.00	0.09	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.01
FEB													
MAR													
APR													
MAY													
JUNE													
SUB- TOTAL	0.67	0.00	0.67	0.00	0.09	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.01
JULY													
AUG													
SEPT													
OCT													
NOV													
DEC													
TOTAL	0.67	0.00	0.67	0.00	0.09	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.01

#### MONTHLY SUMMARY WASTE FLOW TABLE FOR 2023 (YEAR)

**Appendix G – 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	Ø			
S8.8	Construction site should be provided with adequately designed perimeter channel and pre- treatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.				
S8.8	Construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.				
S8.8	Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m <sup>3</sup> capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.				
S8.8	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Ø			
S8.8	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.				
S8.8	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms. Particular attention should be paid to the control of silty surface runoff during storm events.	Z			
S8.8	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.				
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	V			
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.				
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	$\mathbf{\nabla}$			

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

EIA Ref	Recommended Mitigation Measures	In	npleme	entatio	n
S9.5	<ul> <li>Waste Reduction Measures</li> <li>1) Sort C&amp;D waste from demolition of the remaining structures to recover recyclable portions such as metals</li> <li>2) Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal</li> <li>3) Encourage collection of aluminum cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force</li> <li>4) Any unused chemicals or those with remaining functional capacity should be recycled</li> <li>5) Proper storage and site practices to minimize the potential for damage or contamination of construction materials</li> </ul>				
S9.5	Construction and Demolition Material Mitigation measures and good site practices should be incorporated into contract document to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include: 1) Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the transient stockpiles should be located away from waterfront or storm drains as far as possible 2) Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric 3) Skip hoist for material transport should be totally enclosed by impervious sheeting 4) Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site 5) The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores 6) The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle 7) All dusty materials should be graved with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet				
S9.5	When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 "Trip Ticket System for Disposal of Construction	Ø			
S9.5	Chemical Waste After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation	Ŋ			
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.	Not			
Part F A	ir Quality	Observed	Yes	No	Remark
S6.8	Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.		$\mathbf{N}$		
S6.8	Misting for the dusty material should be carried out before being loaded into the vehicle.	V			
S6.8	Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin.	V			
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	Ŋ			
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	$\mathbf{\Sigma}$			
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.		$\mathbf{\nabla}$		
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.		$\mathbf{N}$		

EIA Ref	Recommended Mitigation Measures	In	npleme	entatio	ו
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 H – Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

# **Reporting Period: November 2022 to January 2023**

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

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

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