#### 15-7-2021

By hand

Environmental Protection Department Environmental Assessment Division Metro Assessment Group Kowloon Section (2) 27th floor, Southorn Centre, 130 Hennessy Road,

Wan Chai, Hong Kong

(Attn: Mr. TANG Ho Him, Matthew)

Dear Mr. TANG,

Contract No. EDO 2/2020 Environmental Monitoring Works for Contract No. ED/2018/05 – Kai Tak Development – Stage 5B Infrastructure Works at the Former North Apron Area <u>Submission of Monthly EM&A Report for June 2021 (Version 1.1)</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 Monthly EM&A Report for June 2021 (Version 1.1), 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** 





Unit C, 11/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon.

Website: www.acuityhk.com

Tel. : (852) 2698 6833 Fax.: (852) 2698 9383

Date: 15 July 2021 Your ref: Our ref: PL-202107032

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

#### Attn.: Mr. LEUNG Man Kit, CRE

Dear Mr. Leung,

#### Re: Agreement No. EDO 6/2019 Independent Environmental Checker for Contract No. ED/2018/05 Kai Tak Development – Stage 5B Infrastructure works at the Former North Apron Area Verification of Monthly EM&A Report (June 2021)

Reference is made to the Monthly EM&A Report (June 2021) (Version 1.1) provided by the Environmental Team on 13 July 2021.

Please be informed that we have no adverse comment on the captioned submission. We hereby verify the Monthly EM&A Report (June 2021) in accordance with Condition 3.3 of Environmental Permit No. EP-337/2009.

Thank you for your attention.

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

Kevin Li Independent Environmental Checker

c.c.	CEDD	Attn.: Mr. Kinox Wong	By email
	Ka Shing	Attn.: Mr. Chan Pang (ETL)	By email

# Environmental Monitoring and Audit Report for Contract No. ED/2018/05 – Kai Tak Development – Stage 5B infrastructure works at the former north apron area

## Contract No.: EDO 2/2020

June 2021

(Version 1.1)

Certified By:_	Jon.
	(Environmental Team Leader)

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### **EXECUTIVE SUMMARY**

1. This is the 5<sup>th</sup> Monthly Environmental Monitoring & Audit (EM&A) report which summaries the findings of the EM&A Programme during the reporting period from 1 to 30 June 2021.

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

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

No. of Exceedance Parameter Action Taken Action Level Limit Level 1-hr TSP N/A 0 0 24-hr TSP 0 0 N/A Construction noise 0 0 N/A

Table I Non-compliance Record in the Reporting Month

#### Complaint log

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

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

Table II Summary of complaints in the Reporting Month

#### Notifications of summons and successful prosecutions

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

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

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

#### **Report changes**

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

#### Key construction works in the reporting month

- 9. Major construction activities undertake during the reporting month included:
  - Trial pit excavation
  - Advance works for traffic diversion at Sa Po Road
  - Bored pile works for landscape elevated walkway
  - Instrumentation installation at SB-01

- Pre-drilling work for S14
- Drainage works for Pedestrian Street No.1, No.2 & No.3
- Construction of Crowd Dispersal Route
- Removal existing piles at Road D1
- Rising main construction

#### **Future key issues**

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

Table IV	Summary of future ke	y issues and pote	ential impact in the o	coming month

Future key issues in the coming month	Potential impact
Advance works for traffic diversion at Sa Po Road	Noise and Air Quality
Bored pile works for landscape elevated walkway	Noise and Air Quality
Pre-drilling work for S14	Noise and Air Quality
Drainage works for Pedestrian Street No. 1, No. 2 & No.3	Noise and Air Quality
Construction of Crowd Dispersal Route	Noise and Air Quality
Rising main construction	Noise and Air Quality
Sheetpile installation for launching shaft of SB-01	Noise and Air Quality

### **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 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.	Fax No.
Civil Engineering and	Project	Mr. George Ng	Senior Engineer	3842 7107	3842 7107
Development Department (CEDD)	Proponent	Mr. Kinox Wong	Engineer	3842 7137	3842 7137
AECOM Asia Co. Ltd. (AECOM)	Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual)	Mr. Leung Wai Kit	CRE	2412 3410	2798 0783
Acuity Sustainability Consulting Limited (Acuity)	Independent Environmental Checker (IEC)	Mr. Kevin Li	IEC	2698 6833	2698 9383
Ka Shing Management Consultant Limited (Ka Shing)	Environmental Team (ET)	Ir. Chan Pang	ET Leader	2618 2166	2120 7752
Build King – STEC Joint Venture (BK-STEC)	Contractor	Mr. Raymond Lam	Environmental Officer	9713 6817	3850 8508

Table 1.1 Contact Information of Key Personnel

#### Works Area and Construction Programme

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

#### Construction works undertaken during reporting month

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

<u>Table 1.2 Major</u>	<u>activities of the</u>	Project during	<u>reporting month</u>

Table 1.2 major activities of the Project autility reporting month			
Trial nit avaguation	Drainage works for Pedestrian Street No.1,		
Trial pit excavation	No.2 & No.3		
Advance works for traffic diversion at Sa Po Road	Construction of Crowd Dispersal Route		
Bored pile works for landscape elevated walkway	Removal existing piles at Road D1		
Instrumentation installation at SB-01	Rising main construction		
Pre-drilling work for S14			

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

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

Table 1.3 Summary of Status of Required Submission of EPs

EP Condition EP-337/2009	Submission	Submission Date
Condition 1.11	Notification of Commencement Date of Construction of the Project	12 Jan 2021
Condition 2.3	Management Organization of Main Construction Companies	21 Sep 2020
Condition 2.4	Design Drawings	12 Jan 2021
Condition 2.11	Landscape Mitigation Plans	17 Dec 2020
Condition 3.2	Baseline Monitoring Report	12 Jan 2021
Condition 3.3	Monthly EM&A Report (May 2021)	15 Jun 2021

### 2. AIR QUALITY MONITORING

#### **Monitoring Requirements**

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

#### **Monitoring Locations**

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

Table 2.1 Locations of Air Quality Monitoring Stations

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

#### Monitoring Parameters, Frequency and Duration

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

Air Monitoring Station	Location for Measurement	Paramet	er Duration	Frequency
AM2(A) – Ng Wah Catholic Secondary School	Rooftop	- 24-hour average		- Once every 6 days
AM3 – Sky Tower	Podium Floor near Tower 7	- 1-hour average	- 1 hour TSP	- Three times every 6 days

Table 2.2 Air Quality Monitoring Parameters, Frequency and Duration

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

#### **Monitoring Equipment**

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

Equipment	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		3	1 year
Meter Monitor		5	i yeui
Weather Station	Davis Vantage Pro2 Weather Station	1	6 months

Table 2.3 Air Quality Monitoring Equipment

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

#### Monitoring Methodology and QA/QC Procedure

#### 24-hour TSP Monitoring

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

2.9 Setup criteria of HVS are shown as follows:

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

- 2.16 The timer was programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- 2.17 After sampling, the filter was removed from the HVS and put into a clean and labeled seal plastic bag to avoid cross contamination. The elapsed time was also be recorded. The sampled filters were sent to the HOKLAS accredited or other internationally accredited laboratory for weighting.

#### Maintenance/Calibration

2.18 The following maintenance/calibration are required for the HVS:

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

#### 1-hour TSP Monitoring

#### Measurement Procedures

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

#### Maintenance/Calibration

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

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

#### Wind Data Monitoring

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

#### Action and Limit Levels

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

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

Parameter	Air Monitoring Station	Action Level, $\mu g/m^3$	Limit Level, $\mu g/m^3$
24 hour avarage TSD	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**

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

Air Monitoring Station	Average TSP Concentration, µg/m <sup>3</sup>	Range, μg/m <sup>3</sup>	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM2(A)	48	30-62	175	260
AM3	49	36-59	172	260

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

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

Air Monitoring Station	Average TSP Concentration, µg/m <sup>3</sup>	Range, µg/m <sup>3</sup>	Action Level, $\mu g/m^3$	Limit Level, µg/m <sup>3</sup>
AM2(A)	35	23-42	302	500
AM3	33	24-39	301	500

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

### **3. NOISE MONITORING**

#### **Monitoring Requirements**

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

#### **Monitoring Locations**

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

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

#### Table 3.1 Locations of Noise Monitoring Stations

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

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

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

Table 3.2 Noise Monitoring Parameters, Frequency and Duration

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

#### **Monitoring Equipment**

3.8 As referred to the Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO), sound level meters in compliance with the IEC 61672-1 (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 3.3 summarizes the equipment to be used in the noise monitoring.

Table 3.3 Noise Monitoring Equipment

Equipment	Model	Quantity	Calibration Interval
Sound Level Meter	RION NL52	1	1 year
Sound Level Calibrator	RION NC 75	1	1 year
Air Flowmeter	TSI TA440 Air Velocity	1	1 year

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

#### Monitoring Methodology and QA/QC Procedure

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

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

#### Maintenance and Calibration

- 3.16 The microphone of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.17 The sound level meter and sound calibrator were calibrated annually.
- 3.18 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.

#### Action and Limit Levels

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

Tuble 3.4 Baseline Hoise Bever and Henor and Elmit Bevers for Construction Hoise Monitoring						
Time Period	Noise Monitoring Station	Baseline Noise Levels, dB (A)	Action Level	Limit Level ^		
0700 – 1900 hrs	M4(A)	69.5	When one documented	75 JD(A)		
on normal weekdays	M5(A)	72.5	complaint is received.	75 dB(A)		

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

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

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

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

Noise Monitoring Station	Measured L <sub>Aeq, 30-min</sub> , Average, dB(A)	Measured L <sub>Aeq, 30-min</sub> , Range, dB(A)	Action Level	Limit Level <sup>^</sup>
M4(A)	69.5	69.1 - 70.1	When one documented	75
M5(A)	72.5	71.8 - 73.6	complaint is received	dB(A)

Table 3.5 Summary of Noise Monitoring Data during the reporting month

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

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

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

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

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

Air Monitoring Station	ASR No. in EIA report	Predicted Cumu 24-hour av concen Scenario 1 (Mid 2009 to Mid 2013), µg/m <sup>3</sup>		Measured 24-hr average TSP in Reporting Month (Jun 2021) µg/m <sup>3</sup>
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	30 - 62
AM3 - Sky Tower	A40^	106^	138^	36 - 59

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

Air Monitoring Station	ASR No. in EIA report	Predicted Cumu 1-hour ave concen Scenario 1 (Mid 2009 to Mid 2013), µg/m <sup>3</sup>	erage TSP	Measured 1-hr average TSP in Reporting Month (Jun 2021) µg/m <sup>3</sup>
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	23-42
AM3 - Sky Tower	A40^	217^	247^	24 - 39

Note:

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

Noise Monitoring Station	NSR No. in EIA report	Predicted Mitigated Construction Noise Levels during Normal Daytime Working Hour L <sub>Aeq, 30min</sub> , dB(A)	Measured Noise Level in Reporting Month (Jun 2021) L <sub>Aeq, 30min</sub> , dB(A)
M4(A) – Le Billionnaire	NA	NA	69.1 - 70.1
M5(A) – Prince Ritz	NA	NA	71.8 - 73.6

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

- 4.2 No prediction in the EIA Report for 24-hour TSP monitoring results at AM2(A).
- 4.3 24-hour TSP monitoring results at AM3 was recorded lower than the prediction in the EIA Report.
- 4.4 No prediction in the EIA Report for 1-hour TSP monitoring results at AM2(A).
- 4.5 1-hour TSP monitoring results at AM3 was recorded lower than the prediction in the EIA Report.
- 4.6 No prediction in the EIA Report for noise monitoring results at M4(A) and M5(A).

### 5. LANDSCAPE AND VISUAL MONITORING

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

#### **Results and Observations**

- 5.2 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 5.3 Site inspections were conducted on 3, 10, 17, 24 and 30 June 2021 in the reporting month.
- 5.4 The summary of site audits is attached in Table 5.1.

Close-out Date / **Inspection Date Key Observations Recommendations / Actions** Status 3 June 2021 No NA NA 10 June 2021 NA No NA 17 June 2021 No NA NA 24 June 2021 No NA NA 30 June 2021 No NA NA

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

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

### 6. ENVIRONMENTAL SITE INSPECTION AND AUDIT

#### **Site Inspection**

- 6.1 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 6.2 Site inspections were conducted on 3, 10, 17, 24 and 30 June 2021 in the reporting month.
- 6.3 The summaries of site audits are attached in Table 6.1.

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
3 Jun 2021	Observation: Food waste was observed inside container at LW02.	Action Taken: Food waste was removed on container of LW02.	Closed out on 10 Jun 2021
10 Jun 2021	Observation: Water inlet cap was missed on water-safety barrier of LW02.	Action Taken: The inlet of water-safety barrier was covered.	Closed out on 17 June 2021

Table 6.1 Summary of site inspections observations during the reporting month



Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
24 June	Observation: Water inlet cap was missed from water safety-barriers of LW02.	Action Taken: The inlet of water-safety barrier was covered.	Closed out on 30 June 2021
2021	Observation: Waste was observed inside container at LW02.	Action Taken: Regular waste disposal was arranged by the contractor.	Closed out on 8 Jul 2021
30 June	Observation: Waste was observed inside container at LW02.	Action Taken: Regular waste disposal was arranged by the contractor.	Closed out on 8 Jul 2021
2021	Observation: Material storge away from the trees protection zone near Dakota Drive.	Action Taken: Loose materials were removed, tree protection zone was provided.	Closed out on 8 Jul 2021

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

- 6.4 The amount of wastes generated by the major site activities of the work contracts within the Project during the reporting month is shown in Appendix N.
- 6.5 The Contractor was registered as a chemical waste producer for the Project. The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

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

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

Environmental Licenses, Notifications and Permits	Ref. No.	Valid Form	Valid Till
Environmental Permit under EIAO	EP-337/2009	23 Apr 2009	N/A
Construction Dust Notification under APCO	HA/1826/1	29 Dec 2020	N/A
Waste Disposal Billing Account	7038086	21 Aug 2020	N/A
Registration as a Chemical Waste Producer	511-286-B2596-01	15 Sep 2020	N/A
Wastewater Discharge License under	WT00037618-2021	29 Mar 2021	31 Mar 2026
WPCO	WT00037370-2021	29 Ivial 2021	51 Waf 2020
Construction Noise Permit	GW-RE0434-21	4 May 2021	25 Oct 2021

Table 6.2 Summary of Environmental Licenses, Notifications and Permits

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

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

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

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

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

Table 6.3 Summary of complaints in the Reporting Month

6.9 Complaint log is shown in Appendix P.

#### Notifications of summons and successful prosecutions

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

Tubic 0.4 Duni	mary of summo	ns and successful proseculo	ns in the Reporting month	
Date of receiving notification of summons or prosecutions	Date of event	Description of event	Action taken	Close-out date / Status
No	NA	NA	NA	NA
notification				
of summons				
and				
successful				
prosecutions				
were				
received in				
the reporting				
month.				

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

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

### 7. FUTURE KEY ISSUES

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

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

Future key issues in the coming month	Potential impact
Advance works for traffic diversion at Sa Po Road	Noise and Air Quality
Bored pile works for landscape elevated walkway	Noise and Air Quality
Pre-drilling work for S14	Noise and Air Quality
Drainage works for Pedestrian Street No. 1, No. 2 & No.3	Noise and Air Quality
Construction of Crowd Dispersal Route	Noise and Air Quality
Rising main construction	Noise and Air Quality
Sheetpile installation for launching shaft of SB-01	Noise and Air Quality

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

- 7.2 The mitigation measures for environmental impact including Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual shall be implemented:
  - Sufficient watering of the works site with the active dust emitting activities,
  - Limitation of the speed for vehicles on unpaved site roads,
  - Properly cover the stockpiles,
  - Good maintenance to the plant and equipment,
  - Use of quieter plant and Quality Powered Mechanical Equipment (QPME),
  - Provide movable noise barriers,
  - Appropriate desilting/ sedimentation devices provided on site for treatment before discharge,
  - Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall,
  - Onsite waste sorting and implementation of trip ticket system,
  - Good management and control on construction waste reduction,
  - Erection of decorative screen hoarding,
  - Strictly following the Environmental Permits and Licenses, and
  - Provide sufficient mitigation measures as recommended in Approved EIA Reports.
- 7.3 The recommended environmental measures proposed in the EM&A Manual (EIA Register No. AEIAR-130/2009) shall be effectively implemented to minimize the potential environmental

impacts. The Contractor is reminded to implement the mitigation measures properly.

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

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

### 8. CONCLUSIONS

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

# Figure

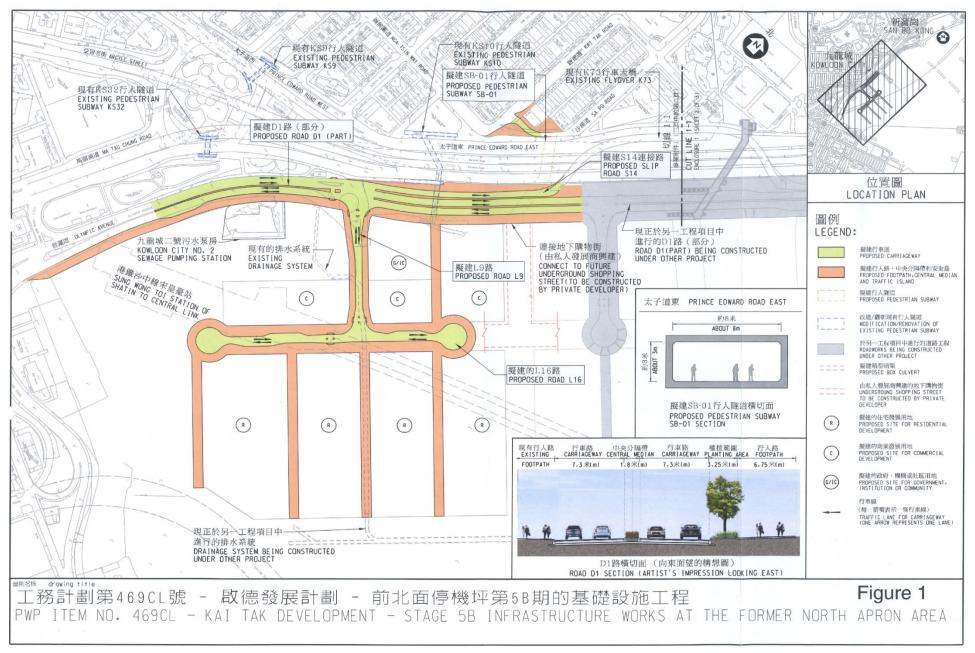


Figure 1 - Proposed works of Contract No. ED/2018/05

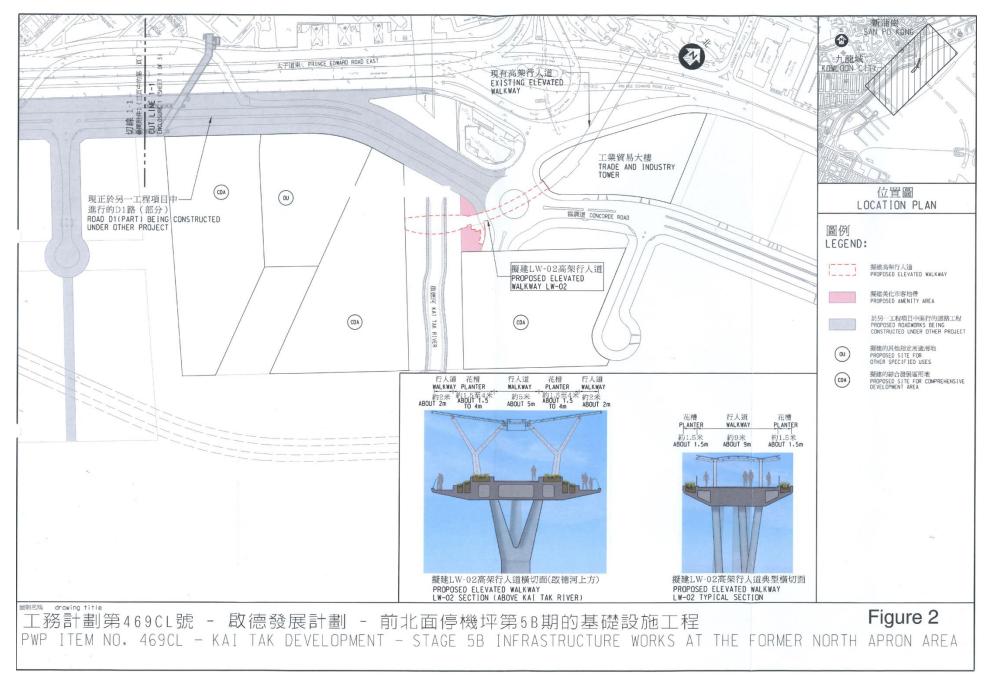


Figure 2 – Proposed works of Contract No. ED/2018/05

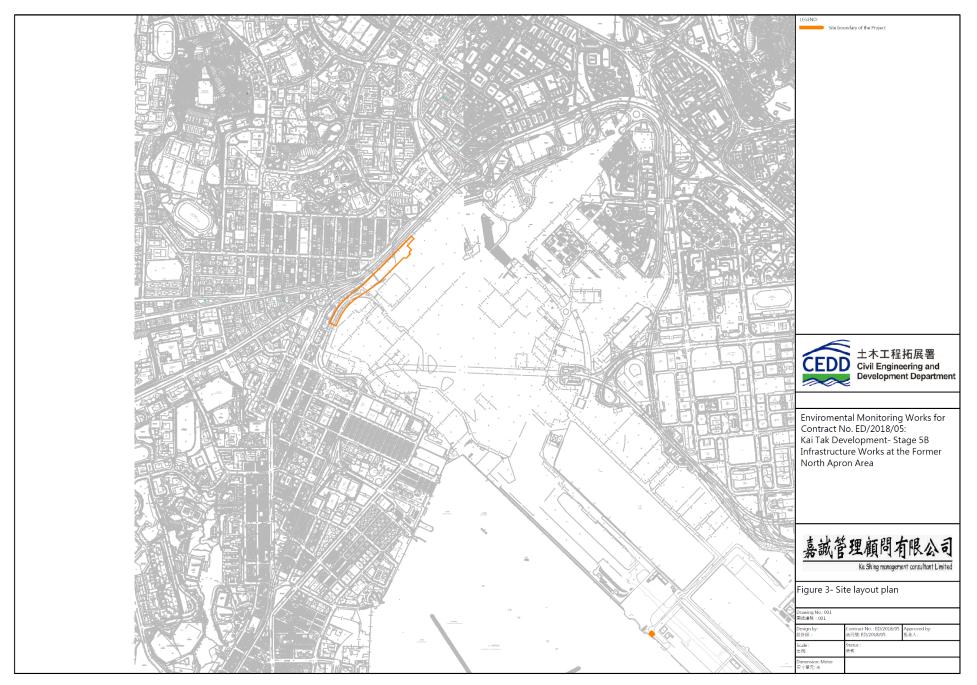


Figure 3 – D1 Road Site Layout Plan

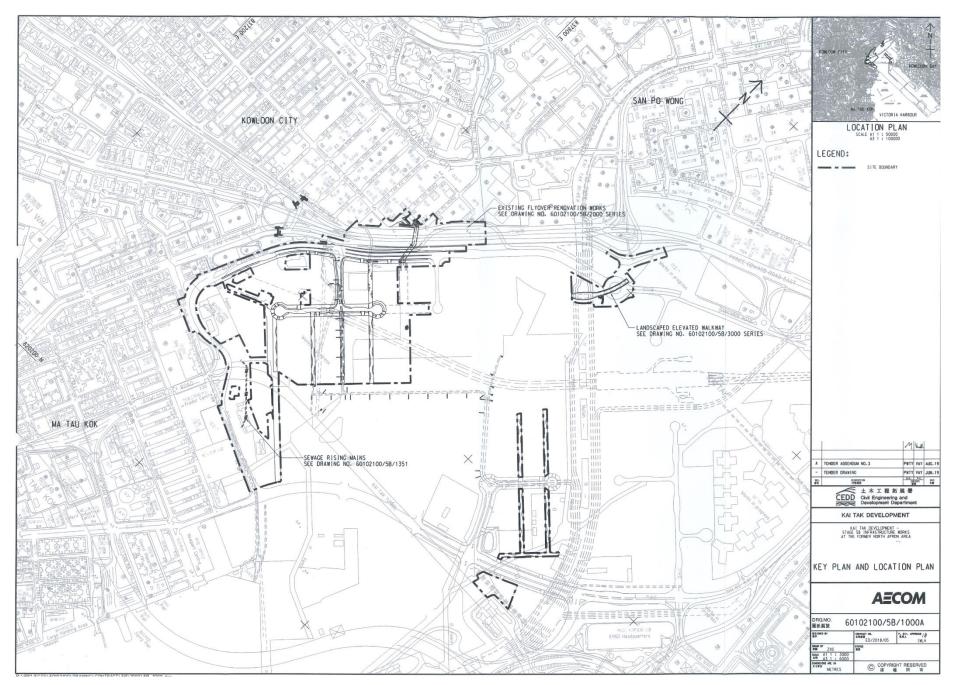


Figure 4 – Site Layout Plan

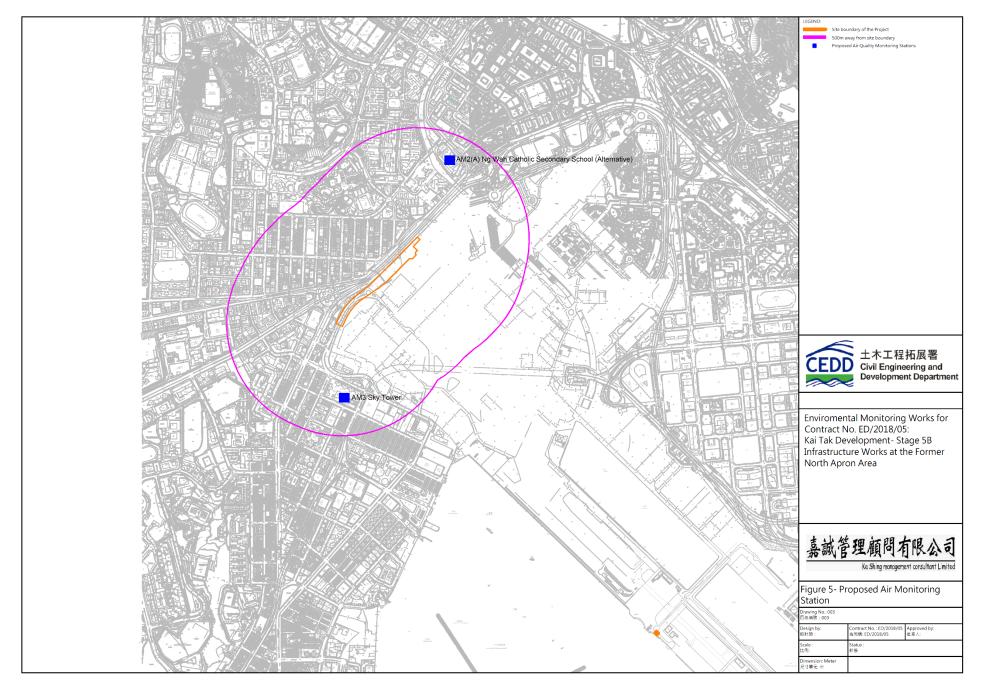


Figure 5 – Air Quality Monitoring Stations

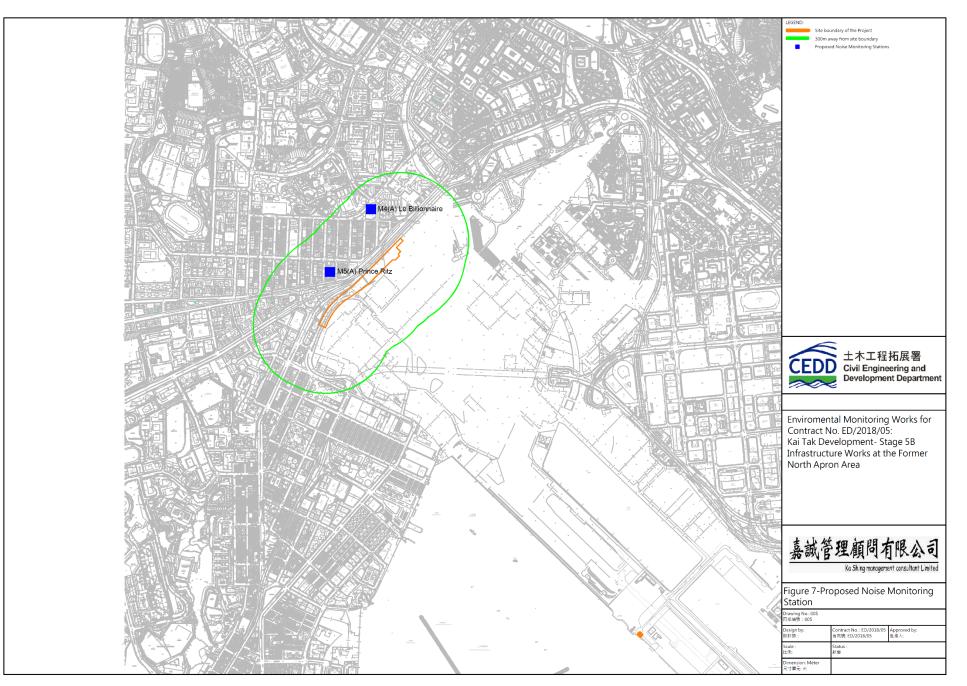
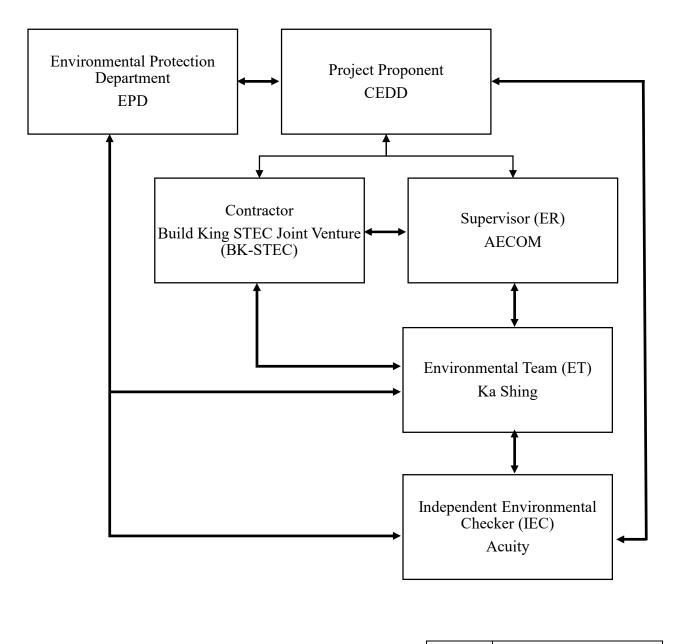
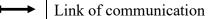


Figure 6 – Noise Monitoring Stations

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





# **Appendix B – Construction Programme**

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	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							
																	- <b></b>				1	

▼ ▼ Critical Milestone ▼

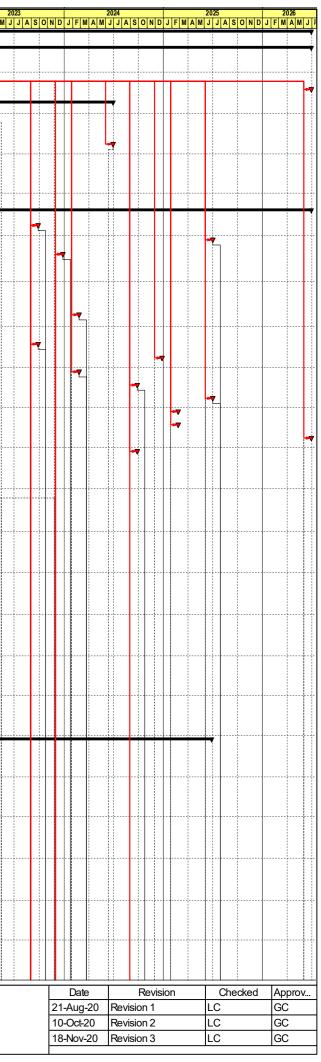
Critical Work

Summary



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

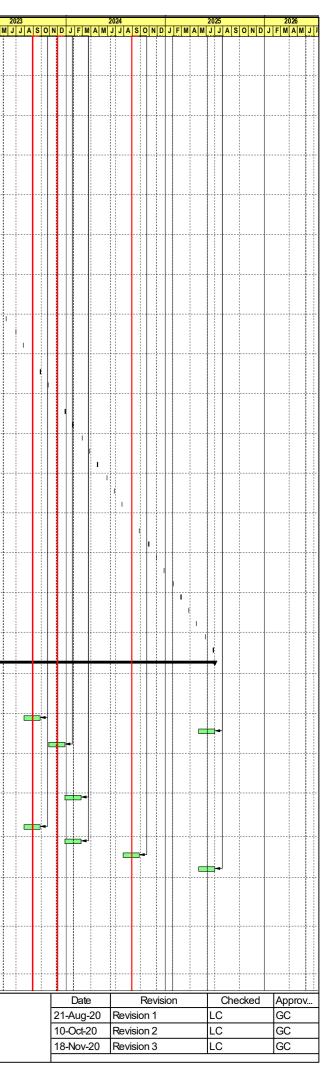
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KTD.KD.1590           KTD.KD.1600           KTD.KD.1610           KTD.KD.1620           KTD.KD.1630           KTD.KD.1630           KTD.KD.1640           KTD.KD.1650           KTD.KD.1660           KTD.KD.1660           KTD.KD.1660           KTD.KD.1680           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         35th 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.1720           KTD.KD.1730           KTD.KD.1740           KTD.KD.1750           KTD.KD.1760           KTD.KD.1770           KTD.KD.1780           KTD.KD.1780           KTD.KD.1780           KTD.KD.1780           KTD.KD.1780           KTD.KD.1800           KTD.KD.1810           KTD.KD.1820           KTD.KD.1830           KTD.KD.1840           KTD.KD.1850           KTD.KD.1860           KTD.KD.1870	26th SSMC Meeting         27th SSMC Meeting         28th SSMC Meeting         29th SSMC Meeting         30th SSMC Meeting         31st SSMC Meeting         32nd SSMC Meeting         32nd SSMC Meeting         33rd SSMC Meeting         33rd SSMC Meeting         36th SSMC Meeting         37th SSMC Meeting         36th SSMC Meeting         36th SSMC Meeting         37th SSMC Meeting         38th SSMC Meeting         39th SSMC Meeting	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1d	b0 b0 b0 b0 b0 b0 b0 b0 b0 b0 b0 b0 b0	29-Sep-22 27-Oct-22 24-Nov-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23 27-Apr-23 25-May-23	29-Sep-22 27-Oct-22 24-Nov-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23 27-Apr-23	29-Sep-22 27-Oct-22 24-Nov-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23	29-Sep-22 27-Oct-22 24-Nov-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23	0 0 0 0 0 0	2 2 2 2 2 2 2 2											T
KTD.KD.1730           KTD.KD.1740           KTD.KD.1750           KTD.KD.1750           KTD.KD.1760           KTD.KD.1770           KTD.KD.1780           KTD.KD.1780           KTD.KD.1780           KTD.KD.1780           KTD.KD.1800           KTD.KD.1810           KTD.KD.1810           KTD.KD.1820           KTD.KD.1830           KTD.KD.1840           KTD.KD.1850           KTD.KD.1860           KTD.KD.1870	27th SSMC Meeting         28th SSMC Meeting         29th SSMC Meeting         30th SSMC Meeting         31st SSMC Meeting         32nd SSMC Meeting         33rd SSMC Meeting         33rd SSMC Meeting         36th SSMC Meeting         36th SSMC Meeting         36th SSMC Meeting         36th SSMC Meeting         37th SSMC Meeting         36th SSMC Meeting         37th SSMC Meeting         38th SSMC Meeting         38th SSMC Meeting         39th SSMC Meeting         39th SSMC Meeting         39th SSMC Meeting	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1d 1d 1d 1d 1d 1d 1d 1d 1d 1d 1d	b0 b0 b0 b0 b0 b0 b0 b0 b0 b0 b0	27-Oct-22 24-Nov-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23 27-Apr-23 25-May-23	27-Oct-22 24-Nov-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23 27-Apr-23	27-Oct-22 24-Nov-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23	27-Oct-22 24-Nov-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23	0 0 0 0 0	2 2 2 2 2 2											1
KTD.KD.1740           KTD.KD.1750           KTD.KD.1750           KTD.KD.1760           KTD.KD.1770           KTD.KD.1780           KTD.KD.1780           KTD.KD.1780           KTD.KD.1780           KTD.KD.1800           KTD.KD.1810           KTD.KD.1810           KTD.KD.1820           KTD.KD.1830           KTD.KD.1840           KTD.KD.1850           KTD.KD.1850           KTD.KD.1860           KTD.KD.1870	28th SSMC Meeting 29th SSMC Meeting 30th SSMC Meeting 31st SSMC Meeting 32nd SSMC Meeting 33rd SSMC Meeting 34th SSMC Meeting 35th SSMC Meeting 36th SSMC Meeting 37th SSMC Meeting 38th SSMC Meeting 39th SSMC Meeting 39th SSMC Meeting 40th SSMC Meeting	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1d 1d 1d 1d 1d 1d 1d 1d 1d 1d	b0 b0 b0 b0 b0 b0 b0 b0 b0 b0	24-Nov-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23 27-Apr-23 25-May-23	24-Nov-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23 27-Apr-23	24-Nov-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23	24-Nov-22 29-Dec-22 26-Jan-23 23-Feb-23 30-Mar-23	0 0 0 0	2 2 2 2											1
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KTD.KD.1770 KTD.KD.1780 KTD.KD.1790 KTD.KD.1800 KTD.KD.1810 KTD.KD.1810 KTD.KD.1820 KTD.KD.1830 KTD.KD.1840 KTD.KD.1850 KTD.KD.1860 KTD.KD.1870	31st SSMC Meeting         32nd SSMC Meeting         33rd SSMC Meeting         34th SSMC Meeting         35th SSMC Meeting         36th SSMC Meeting         37th SSMC Meeting         38th SSMC Meeting         39th SSMC Meeting	1 1 1 1 1 1 1 1 1 1 1	1d 1d 1d 1d 1d 1d 1d	0d 0d 0d 0d 0d	23-Feb-23 30-Mar-23 27-Apr-23 25-May-23	23-Feb-23 30-Mar-23 27-Apr-23	23-Feb-23 30-Mar-23	23-Feb-23 30-Mar-23	0	2	_										1
KTD.KD.1780 KTD.KD.1790 KTD.KD.1800 KTD.KD.1810 KTD.KD.1820 KTD.KD.1830 KTD.KD.1830 KTD.KD.1840 KTD.KD.1850 KTD.KD.1860 KTD.KD.1870	32nd SSMC Meeting 33rd SSMC Meeting 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 1 1 1 1 1	1d 1d 1d 1d 1d 1d	Od Od Od Od	30-Mar-23 27-Apr-23 25-May-23	30-Mar-23 27-Apr-23	30-Mar-23	30-Mar-23	-		-						1	11 5		11	
KTD.KD.1790 KTD.KD.1800 KTD.KD.1810 KTD.KD.1820 KTD.KD.1830 KTD.KD.1830 KTD.KD.1840 KTD.KD.1850 KTD.KD.1860 KTD.KD.1870	33rd SSMC Meeting 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 1 1	1d 1d 1d 1d	Od Od Od	27-Apr-23 25-May-23	27-Apr-23			0	2	- 1 I I I I					1.11.1	- <b>1</b> 1 /	{			
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	0d	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>I</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	Od	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 1					
KTD.LW.1180				-				04	<b>.</b>				 !		<u> </u>	<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

(Page 3 of 5)

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					<u>.</u>					<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							Q	•				
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		
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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 maintex mole 106 construc	
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)       66       64       11Apr2.1       75.       2       1       1       4       60       11Apr2.1       75.       2       1       1       4       60       1       1       4       60       1       4       60       1       4       60       1       4       60       1       4       60       1       1       4       62<	
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-21       02-Jul-22       02-Jul-21       04-Jul-21       02-Jul-22       03-Out-21       12-Jul-22       04-Jul-21       02-Jul-22       02-Jul-22       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)       28       4d       4d       03-Bar-22       74-Mar-22       24-Mar-22       64-Mar-24       14-Mar-22       24-Mar-22       64-Mar-24       14-Mar-22       24-Mar-22       24-Mar-22       24-Mar-22       24-Mar-22	
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       10       11         KTD.RW.1100       Installation of ELS and excavation and construction of pie caps (PC1-7).11/Um3 exca, 800m3 conc, 2 teams)       10       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)       10       11       10-Nov-22       21-Apr-23       04-In-23       0       1         KTD.RW.1130       Construction of Retaining Wall S14 (Bay1-4, 460m	
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       10-Nuv-23       0       1         KTD.RW.11100       Instalation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)       52       48d       4d       22-Apr-23       14-Ju-23       0       1         KTD.RW.1100       Construction of Retaining Wall S14 (Bay1-4, 400m3, 2 teams)       32       26d       6d       11-Aug-23       10-Aug-23       0	
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         KTD.RW.1180       Construction of freataining Wall S14 (Bay 1-7, 1800m3, 2 teams)       36       32d       4d       18-Sep-23       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       10       11         KTD.RW.1190       Construction of Slip Road S14 (Related to Section 3)       0       0d       0d       0d       0d       0d       0d       0d       0d       0d       10       10       11         KTD.RW.1100       Planned Completion of Slip Road S14 (Related to Section 3)       0       0d       0d       0d	
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-23       03-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  $\nabla$ 

▼

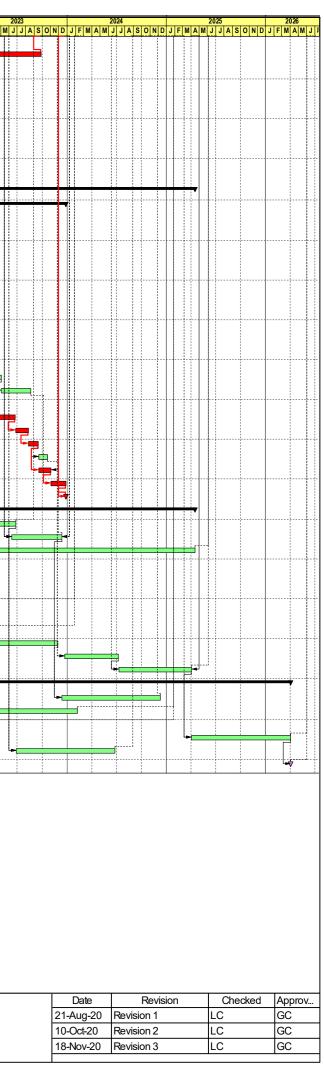
Critical Work

Critical Milestone 

Planned W...

Summary





# Appendix C – Environmental monitoring schedules

Contract No. EDO 2/2020 Environmental Monitoring at Kai Tak Development – Stage 5B infrastructure works at the former north apron area Environmental Monitoring and Weekly Site Inspection Schedule for June 2021

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

June 2021

Air Quality Monitoring Station

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

## Contract No. EDO 2/2020 Environmental Monitoring at Kai Tak Development – Stage 5B infrastructure works at the former north apron area Proposed Environmental Monitoring and Weekly Site Inspection Schedule for July 2021

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

July 2021

NOTE:

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

### Air Quality Monitoring Station

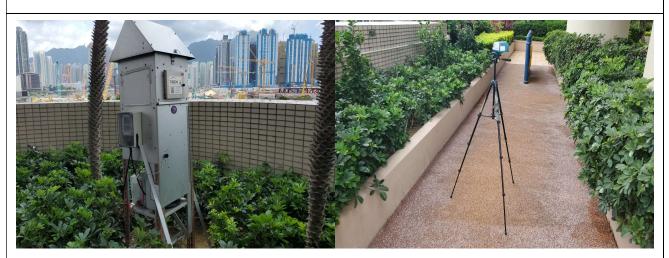
AM2(A) Ng Wah Catholic Secondary School AM3 - Sky Tower **Noise Quality Monitoring Station** M4(A) - Le Billionnaire M5(A) - Prince Ritz

# **Appendix D – Photographic records**

## Impact Air Quality Monitoring



Measurement setup at AM2(A)



### Measurement setup at AM3

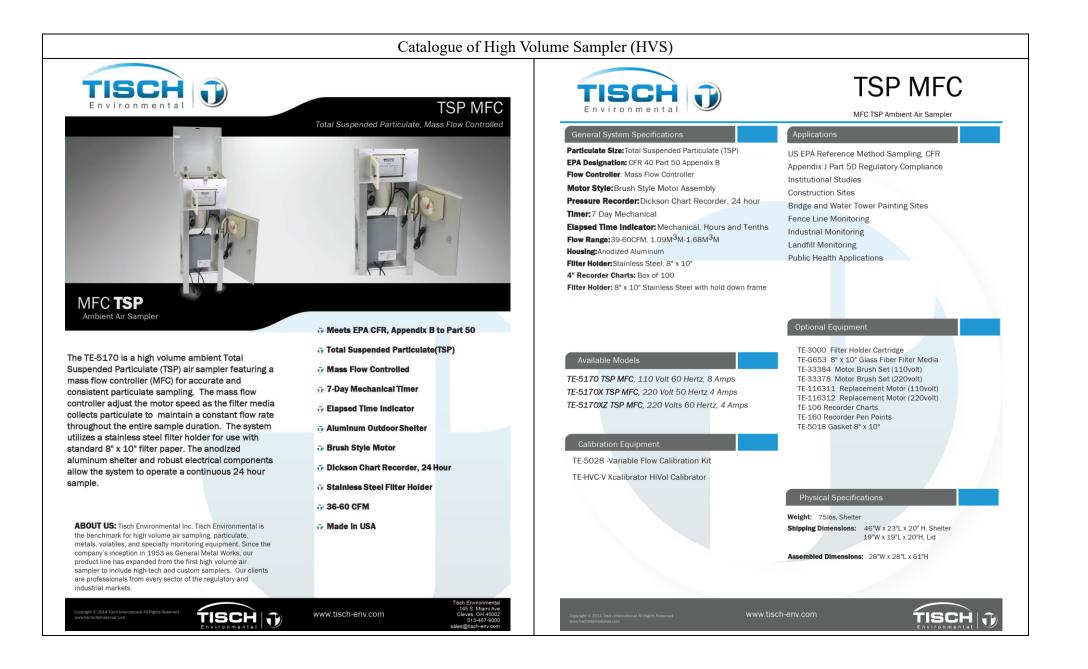


Weather Station at the rooftop of Ng Wah Catholic Secondary School

## Impact Noise Monitoring



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



	Air Sampler	Calibration Curve Plot (Dickson recorder)	ting & Calculat	ion		Air Sampler	Calibration Curv (Dickson reco	e Plotting & Calculat order)	ion
Calibration curve ref.	. No. : ATSPC-01	-2021052802 Date of c	alibration :	28/05/2021	Calibration curve ref	. No. :ATSPC-01	-2021052804 D	ate of calibration :	28/05/2021
Location :	Sky Tower	Sampler	:	TE-5170X	Location : N	g Wah Catholic Second	ary School Sa	mpler :	TE-5170X
Calibration Data		Serial N	umbers :	4687	Calibration Data		S	rial Numbers:	4360
Ambient barometric J	pressure, Pa = 756	.9 (mmHg) Ambient	temperature, Ta =	306.35 ( deg K )	Ambient barometric	pressure, Pa = 756	.9 (mmHg) A	mbient temperature, Ta =	306.35 ( deg K )
Qstd Slope, m =	2.04882	Qstd Inte	ercept, b = -0.0	11270	Qstd Slope, m =	2.04882	Q	std Intercept, b = -0.0	11270
Calibration Curve					Calibration Curve				
Plate No.	H <sub>2</sub> O (in)	Qstd $(m^3/min)$	I ( chart )	IC ( corrected )	Plate No.	H <sub>2</sub> O (in)	Qstd (m <sup>3</sup> /min)	I ( chart )	IC ( corrected )
18	7.60	1.330	48.0	47.24	18	7.80	( m / min ) 1.347	47.0	46.26
13	6.80	1.258	44.0	43.31	13	6.70	1.249	44.0	43.31
10	4.40	1.013	36.0	35.43	10	4.80	1.058	38.0	37.40
7	3.60	0.917	33.0	32.48	7	3.80	0.942	34.0	33.46
5	2.30	0.734	27.0	26.57	5	2.80	0.809	30.0	29.53
Subsequent calculati	ion of sampler flow				Subsequent calculat	ion of sampler flow		í.	
Method	Ca	alibration equation	Slope, m	Intercept, b Corr. coeff., r	Method	C	libration equation	Slope, m	Intercept, b Corr. coeff.
	65.00 55.00 45.00 25.00 15.00 0.6 0	0.8 1.0 1.2 1.4 Ostd / IC Calibration Cu	Qstd (m3 min) 1.6 1.8 2.0 Irve			65.00 55.00 45.00 35.00 15.00 0.6	8 1.0 1.2 1 Qstd / IC Calibra		
Remark : Q	Qstd ( $m^3 / min$ ) = 1/m C (corrected) = I [Squ	0.990 ; (B). At least 3 Qstd 1 [ Sqrt ( H <sub>2</sub> O ( Pa / 760 ) ( 299 rt ( ( Pa / 760 ) ( 298 / Ta ) ) ] Sqrt ( FLOW ( mano ) ( Pa / 7	3 / Ta ) ) - b ].	SP range ( 1.1 - 1.7 m3 / min ).	Remark : O	Qstd ( $m^3 / min$ ) = 1/m C (corrected) = I [Sq	[ Sqrt ( H <sub>2</sub> O ( Pa / 760 rt ( ( Pa / 760 ) ( 298 /	) ( 298 / Ta ) ) - b ].	SP range ( 1.1 - 1.7 m3 / mir

Calibration Certificate of HVS	
<b>TISCH</b> Environmental <b>Certificate of Calibration</b>	
Calibration Certification Information	
Cal. Date:     July 17, 2020     Rootsmeter \$/N: 438320     Ta: 296     °K       Operator:     Jim Tisch     Pa: 753.4     mm Hg       Calibration Model #:     TE-5025A     Calibrator \$/N: 0006	
Run         Vol. Final (m3)         Vol. Final (m3)         ΔVol. (m3)         ΔTime (min)         ΔP         ΔH           1         1         2         1         1.4300         3.2         2.00           2         3         4         1         1.000         6.4         4.00           3         5         6         1         0.9010         7.9         5.00           4         7         8         1         0.8570         8.8         5.50           5         9         10         1         0.7090         12.8         8.00 <th></th>	
Data Tabulation	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
Calculations           Vstd= [\DeltaVol((Pa-\DeltaP)/Pstd)(Tstd/Ta)         Va= [\DeltaVol((Pa-\DeltaP)/Pa)	
Qstd=     Vstd/∆Time     Qa=       For subsequent flow rate calculations:	
$\mathbf{Qstd} = 1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right) \cdot b\right) \qquad \qquad \mathbf{Qa} = 1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right) \cdot b\right)$	
Standard Conditions       Tstd:     298.15 *K       Pstd:     760 mm Hg       Liscalibrator manometer reading (im H2O)     40 Code of Federal Regulations Part 50 to 51,       AP: rootsmeter manometer reading (im Hg)     Appendix B to Part 50, Reference Method for the       Ta: actual barometric pressure (mm Hg)     Determination of Suspended Particulate Matter in       b: intercept     the Atmosphere, 9.2.17, page 30	
Tisch Environmental, Inc.     www.tisch-env.com       145 South Miami Avenue     TOLL FREE: (877)263-7610	
Village of Cleves, OH 45002 FAX: (513)467-9009	

### Catalogue of Dust Meter (TSI Sidepak AM510)

The SidePak AM510 monitor's easy-to-read display shows your data as both real-time aerosol mass-concentration and 8-hour time-weighted average (TWA). With its convenient data logging and long battery life, the AM510 is also ideal for extended sampling. The easy-to-use TrakPro Data Analysis Software lets you create effective graphs and reports.



#### **User Friendly**

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

#### Advanced Features

+ Smart Battery Management System provides precise run time information, maximizes battery capacity and speeds charging Integrated pump allows use of size-selective aerosol inlet conditioners + Built-in impactors let you choose "none," 1.0, 2.5 or 10-micron cut off + 10-mm Dorr-Oliver cyclone for respirable sampling + Display shows real-time concentrations (mg/m³) and "on-the-fly" TWA as you data log + Display statistics: max, min and average readings, elapsed time and 8-hour TWA

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

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

#### Power to Spare

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

#### Model AM510 SidePak Personal Aerosol Monitor

Sensitivity Sensor Type
Aerosol Concentration Range

Particle Size Range

Zero stability

0.001 to 20 mg/m<sup>3</sup> (calibrated to respirable fraction of ISO 12103-1, A1 test dust) 0.1 to 10 micrometer (µm) Minimum Resolution 0.001 mg/m<sup>3</sup> ±0.001 mg/m³ over 24 hours using 10-second time-constant Temperature Coefficient Approximately +0.0005 mg/m<sup>3</sup> per °C (for variations from temperature at which instrument was last zeroed)

90° light scattering,

670 nm laser diode

#### Flow Rate Range

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

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

**Operational Humidity** 

0 to 95% RH, non-condensing

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

Data Logging Approx. 31,000 Data Points Logging Interval User-adjustable, 1 second to 1 hour

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

Factory Setting 1.0 (non-adjustable) User-defined Settings 3, with user-defined labels 0.1 to 10.0, user-adjustable

#### Physical External Dimensions

Range

4.2 x 3.7 x 2.8 in. (106 x 92 x 70 mm) with 801723, 801724, 801729 or 801743 battery 5.1 x 3.7 x 2.8 in. (130 x 92 x 70 mm) with 801708, 801722, 801728, 801735, or 801736 battery 16 oz (0.46 kg) with 801723, 801724, Weight 801729 or 801743 battery 19 oz (0.54 kg) with 801708, 01722, 801728, 801735, or 801736 battery Display Tripod Socket 2 line x 12 character LCD 1/4-20 female thread

### Power Supply/Charger (P/N 2613210) Input Voltage Range 100 to 240 VAC. 50 to 60 Hz

Input Voltage Range Output Voltage 9 VDC @ 1.0 A

#### Maintenance Factory Clean/Calibrate User Zero Calibration

Recommended annually Before each use User Flow Calibration As needed

#### Communications Interface

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

#### Minimum Computer Requirements for TrakPro™ Data Analysis Software

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

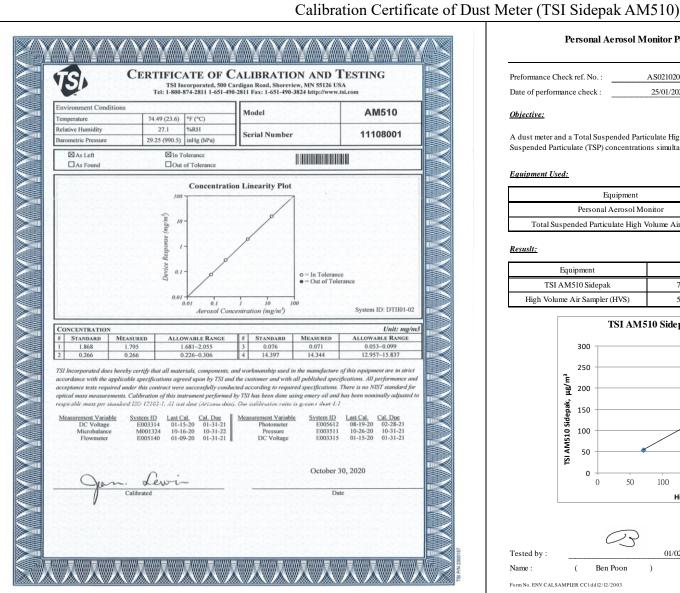
#### **Battery Performance**

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

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

#### **Battery Level Indicator**

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



### Personal Aerosol Monitor Performance check with High Volume Sampler

Preformance Check ref. No. :	AS0210201-2	Report Issue Date:	01/02/2021
Date of performance check :	25/01/2021		

#### **Objective:**

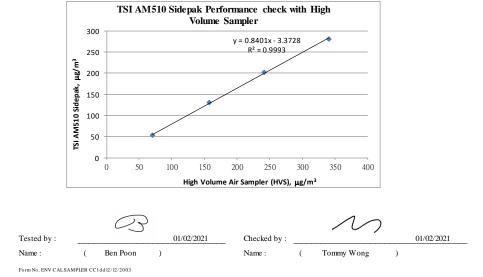
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

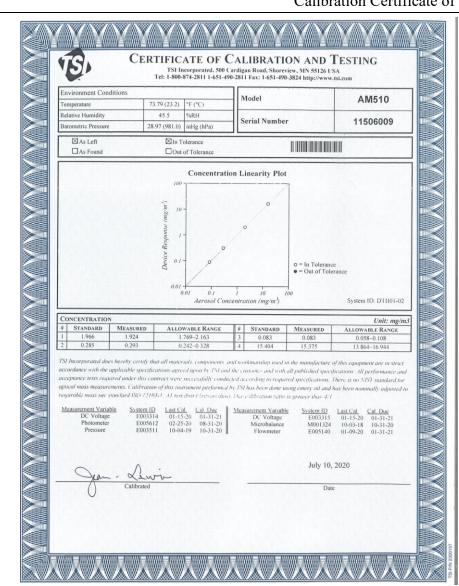
#### Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11108001
Total Suspended Particulate High Volume Air Sampler	G82310	10346

#### Resust:

Equipment	Measurement Result, µg/m <sup>3</sup>			
TSI AM510 Sidepak	70	157	242	341
High Volume Air Sampler (HVS)	53	131	202	281





## Calibration Certificate of Dust Meter (TSI Sidepak AM510)

Personal Aerosol Monitor Performance check with High Volume Sampler

Preformance Check ref. No. :	AS0210201-3	Report Issue Date:	01/02/2021
Deter for the second second	25/01/2021		
Date of performance check :	25/01/2021		

#### Objective:

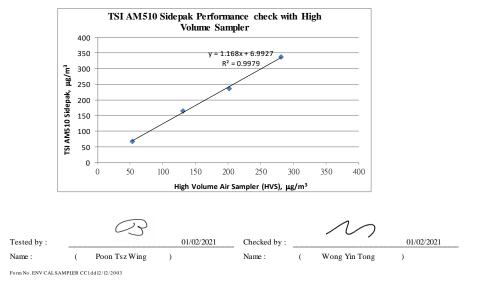
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

#### Equipment Used:

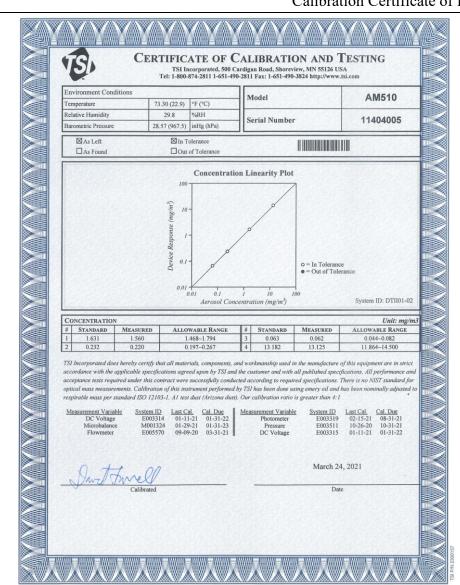
Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11506009
Total Suspended Particulate High Volume Air Sampler	G\$2310	10346

#### <u>Resuslt:</u>

Equipment	Measurement Result, µg/m <sup>3</sup>			
TSI AM510 Sidepak	68	165	236	338
High Volume Air Sampler (HVS)	53	131	202	281



## Personal Aero



Calibration Certificate of Dust Meter (TSI Sidepak AM510)

Personal Aerosol Monitor Performance check with High Volume Sampler

10/04/2021

Preformance Check ref. Nc AS0210410-1 Report Issue Date Date of performance check 08/04/2021

### **Objective:**

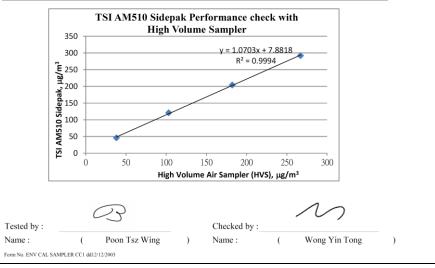
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

#### Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11404005
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

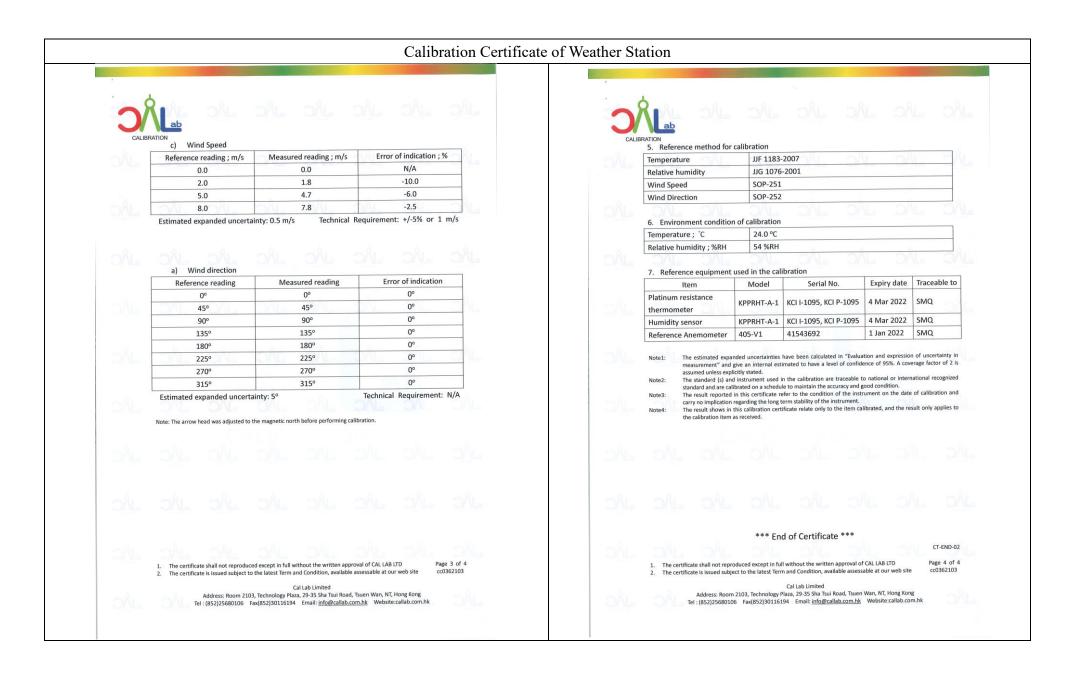
#### <u>Resuslt:</u>

Equipment	Measurement Result, µg/m <sup>3</sup>			
TSI AM510 Sidepak	46	121	204	292
High Volume Air Sampler (HVS)	38	103	182	267



#### Catalogue of Weather Station 7 Cabled Vantage Pro2™ 6152C Vantage Pro2 & Vantage Pro2 Plus™ Stations 6162C Ultra Violet (UV) Radiation Index (requires UV sensor) Vantage Pro2<sup>™</sup> Range ..... 0 to 16 Index High)) The Vantage Pro2<sup>™</sup> (# 6152C) and Vantage Pro2<sup>™</sup> Plus (# 6162C) cabled weather stations include two components: the Integrated Sensor Suite (ISS) and the console. The ISS contains the sensor interface module (SIM), rain collector, an anemometer, and a passive radiation shield. The Vantage Pro2 console provides the user interface, data display, and calculations. The Vantage Pro2 Plus weather station includes two additional sensors that are optional on the Current Graph Data...... Instant Reading and Hourly Average: Daily, Monthly High Vantage Pro2 and purchased separately: the UV Sensor and the Solar Radiation Sensor. The console and ISS are powered by an AC-power adapter connected to the console. Batteries can be installed in the console to provide a backup power supply. Use WeatherLink<sup>®</sup> to let your weather station interface with a computer, log data, and upload weather information to the Internet. The 6152C and 6162C models rely on passive shielding to reduce solar-radiation induced temperature errors in the outside temperature sensor readings. Wind Wind Chill (Calculated) Integrated Sensor Suite (ISS) the nearest 1°C console and ISS Source..... United States National Weather Service (NWS)/NOAA Equation Used ...... Osczevski (1995) (adopted by US NWS in 2001) Cable Type ...... 4-conductor, 26 AWG Variables Used ...... Avg. Wind Speed Current Display Data ..... Instant Calculation Maximum displayable wind decreases as the length of cable increases, at 140° (42 m) of cable, the maximum wind speed displayed is 135 mph (60 Current Graph Data ...... Instant Calculation; Hourly, Daily and Monthly Low m/s); at 240' (73 m), the maximum wind speed displayed is 100 mph (34 m/s). Historical Graph Data. . . . . . . . . . . . . . . . Hourly, Daily and Monthly Lows Wind Speed Sensor ...... Solid state magnetic sensor Alarm..... Low Threshold from Instant Calculation Wind Direction Sensor ...... Wind vane with potentiometer Wind Direction Range ...... 1 - 360° (214 cm<sup>2</sup>) collection area Temperature Sensor Type..... PN Junction Silicon Diode Relative Humidity Sensor Type ...... Film capacitor element Accuracy ..... ±3° Update Interval ..... 2.5 to 3 seconds Sensor Inputs Current Graph Data ...... Instant Reading (user adjustable); 10-min. Dominant; Hourly, Daily, RF Filtering ...... RC low-pass filter on each signal line Monthly Dominant ISS Dimensions(not including anemometer or bird spikes); Monthly Dominants Wind Speed Resolution and Units ...... 1 mph, 1 km/h, 0.4 m/s, or 1 knot (user-selectable) Measured in mph; Vantage Pro2 with Fan-Asprated Rad Shield..... 20.8" x 9.4" x 16.0" (528 mm x 239 mm x 406 mm) other units are converted from mph and rounded to nearest 1 km/hr. 0.1 Vantage Pro2 Plus with Standard Rad Shield ..... 14.3" x 9.7" x 14.5" (363 mm x 246 mm x 368 mm) m/s or 1 knot Vantage Pro2 Plus with Fan-Aspirated Rad Shield ..... 21.1" x 9.7" x 16.0" (536 mm x 246 mm x 406 mm) Update Interval ..... Instant Reading: 2.5 to 3 seconds, 10-minute Average: 1 minute length of cable from anemometer to ISS increases.) Current Display Data ..... Instant Current Graph Data ...... Instant Reading; 10-minute and Hourly Average; Hourly High; Daily, Davis Instruments 3465 Diablo Ave., Hayward, CA 94545-2778 USA (510) 732-9229 - FAX (510) 670-0589 - sales@davisinstruments.com - www.davisinstruments.com Monthly and Yearly High with Direction of High DS6152C, 6162C Rev. W 12/7/18 Highs with Direction of Highs High Thresholds from Instant Reading and 10-minute Average Alarms

		7-WS-04 lat 2021/3/16		RATION	NL ONL	sír sír sí
Ca	libration Certificate		<b>Z</b> 6.	4. Result of Calibration a) Temperature		
one on <del>e</del>	JALE ONLE ONLE DAL		OAL	Reference reading ; °C	Reading ; °C	Error of indication ; °C
				15.0	15	0.0
Certificate No.: CO	C0362103			20.0	20	0.0
1. Description			-81	25.0	25	0.0
Calibration item :	a) Temperature		_// N_#	30.0	30	0.0
	b) Relative Humidity c) Wind Speed			Estimated expanded uncertainty		Technical Requirement: N/A
	d) Wind Direction		086	Note: The technical requirement is refer to	JJF 1183-2007	
Equipment description :	Weather Station					
Manufacturer :	Davis Vantage Pro 2					
Type / Model No. :	6152CUK					
Serial No. :	BD181101023		O/L-			
Assigned equipment no. :	N/A					
Adjustment : Remark :	N/A Received with good condition		-the			CT-001-04
Adjustment : Remark : 2. Customer information Customer :	Received with good condition Castco Testing Centre Limited		-ML	b) Relative Humidity		etting of humidity chamber : 23 °C
Adjustment : Remark : 2. Customer information Customer : Address :	Received with good condition Castco Testing Centre Limited 33, On Kui Street, Fanling, N.T.			Reference reading ; % RH	Reading ; % RH	etting of humidity chamber : 23 °C Error of indication ; % RH
Adjustment : Remark : 2. Customer information Customer :	Received with good condition Castco Testing Centre Limited		oju oju	Reference reading ; % RH 40.0	Reading ; % RH 42	etting of humidity chamber : 23 °C Error of indication ; % RH 2.0
Adjustment : Remark : 2. Customer information Customer : Address : Date of receipt :	Received with good condition         Castco Testing Centre Limited         33, On Kui Street, Fanling, N.T.         10 March 2021		oáu oAu	Reference reading ; % RH 40.0 50.0	Reading ; % RH 42 52	etting of humidity chamber : 23 °C Error of indication ; % RH 2.0 2.0
Adjustment : Remark : 2. Customer information Customer : Address : Date of receipt : 3. Date of performance of	Received with good condition         Castco Testing Centre Limited         33, On Kui Street, Fanling, N.T.         10 March 2021         f the calibration		oác oAc	Reference reading ; % RH           40.0           50.0           70.0	Reading ; % RH 42 52 71	etting of humidity chamber : 23 °C Error of indication ; % RH 2.0 2.0 1.0
Adjustment : Remark : 2. Customer information Customer : Address : Date of receipt :	Received with good condition         Castco Testing Centre Limited         33, On Kui Street, Fanling, N.T.         10 March 2021			Reference reading ; % RH 40.0 50.0	Reading ; % RH 42 52 71	etting of humidity chamber : 23 °C Error of indication ; % RH 2.0 2.0
Adjustment : Remark : 2. Customer information Customer : Address : Date of receipt : 3. Date of performance of	Received with good condition         Castco Testing Centre Limited         33, On Kui Street, Fanling, N.T.         10 March 2021         f the calibration		o∱∟ o∕∖∟	Reference reading ; % RH           40.0           50.0           70.0	Reading ; % RH 42 52 71 y: 3 %RH	etting of humidity chamber : 23 °C Error of indication ; % RH 2.0 2.0 1.0
Adjustment : Remark : 2. Customer information Customer : Address : Date of receipt : 3. Date of performance of	Received with good condition         Castco Testing Centre Limited         33, On Kui Street, Fanling, N.T.         10 March 2021         f the calibration			Reference reading ; % RH       40.0       50.0       70.0       Estimated expanded uncertainty	Reading ; % RH 42 52 71 y: 3 %RH	etting of humidity chamber : 23 °C Error of indication ; % RH 2.0 2.0 1.0
Adjustment : Remark : 2. Customer information Customer : Address : Date of receipt : 3. Date of performance of Date of calibration :	Received with good condition         Castco Testing Centre Limited         33, On Kui Street, Fanling, N.T.         10 March 2021         f the calibration         16 March 2021			Reference reading ; % RH       40.0       50.0       70.0       Estimated expanded uncertainty	Reading ; % RH 42 52 71 y: 3 %RH	etting of humidity chamber : 23 °C Error of indication ; % RH 2.0 2.0 1.0
Adjustment : Remark : 2. Customer information Customer : Address : Date of receipt : 3. Date of performance of Date of calibration : Date of calibration :	Received with good condition         Castco Testing Centre Limited         33, On Kui Street, Fanling, N.T.         10 March 2021         f the calibration         16 March 2021         Company Chop:         Company Chop:         Certificate issue date: 18 March 1	CT-BEG-02		Reference reading ; % RH       40.0       50.0       70.0       Estimated expanded uncertainty	Reading ; % RH 42 52 71 y: 3 %RH	etting of humidity chamber : 23 °C Error of indication ; % RH 2.0 2.0 1.0
Adjustment : Remark : 2. Customer information Customer : Address : Date of receipt : 3. Date of performance of Date of calibration : 4. The certificate shall not reprod 1. The certificate shall not reprod	Received with good condition         Castco Testing Centre Limited         33, On Kui Street, Fanling, N.T.         10 March 2021         f the calibration         16 March 2021         Company Chop:			Reference reading ; % RH       40.0       50.0       70.0       Estimated expanded uncertainty	Reading ; % RH 42 52 71 y: 3 %RH b JIG 1076-2001	etting of humidity chamber : 23 °C Error of indication ; % RH 2.0 2.0 1.0 Technical Requirement: N/A CT-002-04 Page 2 of 4



# Appendix F – Weather information

### General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)	Mean Relative Humidity (%)
01/06/2021	24.1	29.3	45.8	91
02/06/2021	25.0	31.3	2.4	85
03/06/2021	27.9	34.0	0.0	77
04/06/2021	26.7	29.8	7.5	84
05/06/2021	25.6	29.2	Trace	73
06/06/2021	26.4	31.4	Trace	74
07/06/2021	26.6	32.2	Trace	78
08/06/2021	26.5	33.5	0.9	79
09/06/2021	26.4	29.9	48.6	87
10/06/2021	25.5	32.8	29.4	83
11/06/2021	26.7	32.9	31.2	82
12/06/2021	26.2	29.5	30.3	89
13/06/2021	26.0	32.0	2.8	85
14/06/2021	27.8	31.1	0.3	81
15/06/2021	27.2	31.8	6.2	79
16/06/2021	29.1	33.3	0.0	76
17/06/2021	27.7	32.8	9.6	77
18/06/2021	29.0	32.8	3.9	77
19/06/2021	29.5	33.0	Trace	77
20/06/2021	29.4	32.8	0.0	78
21/06/2021	29.4	32.4	1.2	80
22/06/2021	24.7	30.2	75.3	87
23/06/2021	25.1	29.0	66.4	88
24/06/2021	25.1	26.7	20.8	91
25/06/2021	26.0	29.0	6.8	87
26/06/2021	25.9	29.9	61.3	90
27/06/2021	28.4	30.0	5.8	84
28/06/2021	24.0	29.6	166.5	89
29/06/2021	28.8	30.7	4.6	82
30/06/2021	29.0	32.6	0.4	79

NOTE1: The above weather information was obtained from manned weather station of Hong Kong Observatory. NOTE2: Trace means rainfall less than 0.05 mm

https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2021&m=06

Kai Tak Runway Park Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)
01/06/2021	24.2	28.9
02/06/2021	25.3	31.2
03/06/2021	26.7	33.8
04/06/2021	26.7	30.6
05/06/2021	25.9	30.1
06/06/2021	26.3	30.6
07/06/2021	26.0	29.5
08/06/2021	26.7	30.2
09/06/2021	26.7	30.0
10/06/2021	25.5	30.6
11/06/2021	26.4	30.8
12/06/2021	26.0	29.7
13/06/2021	25.6	30.2
14/06/2021	27.9	32.0
15/06/2021	26.8	31.8
16/06/2021	28.8	31.7
17/06/2021	28.4	32.5
18/06/2021	29.0	32.7
19/06/2021	29.4	32.5
20/06/2021	29.5	32.9
21/06/2021	28.6	32.0
22/06/2021	NA	NA
23/06/2021	24.7	30.1
24/06/2021	24.5	26.9
25/06/2021	25.3	28.6
26/06/2021	25.2	29.8
27/06/2021	27.3	30.0
28/06/2021	23.9	29.8
29/06/2021	27.8	30.5
30/06/2021	28.5	31.6

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=2021-06-01&chart\_type=DG\_TEMP

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
01/06/2021	0:00	0.9	112.5	02/06/2021	0:00	0.9	67.5	03/06/2021	0:00	0.9	45	04/06/2021	0:00	0.9	22.5
01/06/2021	1:00	0.9	112.5	02/06/2021	1:00	0.9	45	03/06/2021	1:00	0.9	45	04/06/2021	1:00	0.9	22.5
01/06/2021	2:00	0.9	67.5	02/06/2021	2:00	1.8	90	03/06/2021	2:00	0.9	315	04/06/2021	2:00	0.4	22.5
01/06/2021	3:00	0.9	112.5	02/06/2021	3:00	1.8	45	03/06/2021	3:00	0.9	337.5	04/06/2021	3:00	0.9	22.5
01/06/2021	4:00	0.4	112.5	02/06/2021	4:00	1.8	45	03/06/2021	4:00	0.9	337.5	04/06/2021	4:00	0.9	22.5
01/06/2021	5:00	1.8	90	02/06/2021	5:00	1.8	67.5	03/06/2021	5:00	0.9	45	04/06/2021	5:00	0.9	22.5
01/06/2021	6:00	0.4	112.5	02/06/2021	6:00	1.3	45	03/06/2021	6:00	0.9	157.5	04/06/2021	6:00	1.8	22.5
01/06/2021	7:00	0.9	112.5	02/06/2021	7:00	1.3	45	03/06/2021	7:00	0.4	157.5	04/06/2021	7:00	2.2	157.5
01/06/2021	8:00	1.3	112.5	02/06/2021	8:00	0.9	45	03/06/2021	8:00	0.4	135	04/06/2021	8:00	1.8	157.5
01/06/2021	9:00	0.9	112.5	02/06/2021	9:00	1.3	45	03/06/2021	9:00	0.9	22.5	04/06/2021	9:00	1.8	292.5
01/06/2021	10:00	0.9	90	02/06/2021	10:00	1.8	45	03/06/2021	10:00	0.9	22.5	04/06/2021	10:00	1.3	292.5
01/06/2021	11:00	0.9	135	02/06/2021	11:00	0.9	135	03/06/2021	11:00	0.9	67.5	04/06/2021	11:00	0.9	270
01/06/2021	12:00	1.8	90	02/06/2021	12:00	2.2	112.5	03/06/2021	12:00	0.9	135	04/06/2021	12:00	0.4	270
01/06/2021	13:00	1.8	90	02/06/2021	13:00	2.7	90	03/06/2021	13:00	0.4	135	04/06/2021	13:00	0.4	292.5
01/06/2021	14:00	2.7	112.5	02/06/2021	14:00	1.3	67.5	03/06/2021	14:00	0.9	135	04/06/2021	14:00	0.9	270
01/06/2021	15:00	2.7	135	02/06/2021	15:00	1.3	112.5	03/06/2021	15:00	0.4	90	04/06/2021	15:00	0.9	270
01/06/2021	16:00	2.2	112.5	02/06/2021	16:00	1.3	67.5	03/06/2021	16:00	0.4	67.5	04/06/2021	16:00	0.9	270
01/06/2021	17:00	2.2	112.5	02/06/2021	17:00	1.8	67.5	03/06/2021	17:00	1.8	247.5	04/06/2021	17:00	0.9	292.5
01/06/2021	18:00	2.7	90	02/06/2021	18:00	1.8	67.5	03/06/2021	18:00	2.2	247.5	04/06/2021	18:00	0.9	315
01/06/2021	19:00	2.7	112.5	02/06/2021	19:00	1.3	112.5	03/06/2021	19:00	1.8	247.5	04/06/2021	19:00	0.9	292.5
01/06/2021	20:00	2.2	112.5	02/06/2021	20:00	0.4	67.5	03/06/2021	20:00	1.8	247.5	04/06/2021	20:00	0.9	292.5
01/06/2021	21:00	0.4	90	02/06/2021	21:00	0.4	90	03/06/2021	21:00	0.4	135	04/06/2021	21:00	0.9	292.5
01/06/2021	22:00	0.4	67.5	02/06/2021	22:00	0.4	90	03/06/2021	22:00	0.4	135	04/06/2021	22:00	0.9	292.5
01/06/2021	23:00	0.4	180	02/06/2021	23:00	0.4	112.5	03/06/2021	23:00	0.9	112.5	04/06/2021	23:00	0	180

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
05/06/2021	0:00	0.4	67.5	06/06/2021	0:00	1.3	45	07/06/2021	0:00	0.9	315	08/06/2021	0:00	0.9	337.5
05/06/2021	1:00	0	135	06/06/2021	1:00	0.4	225	07/06/2021	1:00	1.3	270	08/06/2021	1:00	0.4	67.5
05/06/2021	2:00	0.4	135	06/06/2021	2:00	0.9	112.5	07/06/2021	2:00	0.9	67.5	08/06/2021	2:00	0.4	270
05/06/2021	3:00	1.3	67.5	06/06/2021	3:00	0.9	0	07/06/2021	3:00	1.3	22.5	08/06/2021	3:00	1.3	22.5
05/06/2021	4:00	1.3	22.5	06/06/2021	4:00	0.9	247.5	07/06/2021	4:00	1.8	112.5	08/06/2021	4:00	1.3	22.5
05/06/2021	5:00	1.8	90	06/06/2021	5:00	1.8	270	07/06/2021	5:00	1.3	90	08/06/2021	5:00	0.9	22.5
05/06/2021	6:00	1.3	22.5	06/06/2021	6:00	1.8	247.5	07/06/2021	6:00	1.3	112.5	08/06/2021	6:00	1.3	337.5
05/06/2021	7:00	1.3	0	06/06/2021	7:00	1.8	247.5	07/06/2021	7:00	0.9	67.5	08/06/2021	7:00	1.3	337.5
05/06/2021	8:00	1.8	90	06/06/2021	8:00	0.4	270	07/06/2021	8:00	0.4	67.5	08/06/2021	8:00	0.9	0
05/06/2021	9:00	1.8	22.5	06/06/2021	9:00	0	270	07/06/2021	9:00	1.8	67.5	08/06/2021	9:00	0.9	292.5
05/06/2021	10:00	2.2	90	06/06/2021	10:00	0	337.5	07/06/2021	10:00	0.9	112.5	08/06/2021	10:00	1.8	112.5
05/06/2021	11:00	1.8	112.5	06/06/2021	11:00	0.4	270	07/06/2021	11:00	0.9	67.5	08/06/2021	11:00	1.3	112.5
05/06/2021	12:00	1.8	67.5	06/06/2021	12:00	0.4	225	07/06/2021	12:00	0.9	135	08/06/2021	12:00	1.8	67.5
05/06/2021	13:00	1.3	22.5	06/06/2021	13:00	0.4	0	07/06/2021	13:00	0.4	135	08/06/2021	13:00	2.2	112.5
05/06/2021	14:00	1.3	292.5	06/06/2021	14:00	0.9	135	07/06/2021	14:00	1.3	157.5	08/06/2021	14:00	2.7	90
05/06/2021	15:00	1.3	22.5	06/06/2021	15:00	0.4	90	07/06/2021	15:00	1.3	45	08/06/2021	15:00	1.8	67.5
05/06/2021	16:00	0.9	225	06/06/2021	16:00	0.4	135	07/06/2021	16:00	0.9	315	08/06/2021	16:00	1.3	135
05/06/2021	17:00	0.9	0	06/06/2021	17:00	0.9	22.5	07/06/2021	17:00	1.8	225	08/06/2021	17:00	0.9	135
05/06/2021	18:00	0.9	0	06/06/2021	18:00	0.9	90	07/06/2021	18:00	1.3	0	08/06/2021	18:00	0.9	157.5
05/06/2021	19:00	0.4	315	06/06/2021	19:00	0.4	135	07/06/2021	19:00	1.3	0	08/06/2021	19:00	1.3	67.5
05/06/2021	20:00	0.4	315	06/06/2021	20:00	0.9	112.5	07/06/2021	20:00	1.8	112.5	08/06/2021	20:00	0.9	67.5
05/06/2021	21:00	0.4	67.5	06/06/2021	21:00	1.3	90	07/06/2021	21:00	1.3	135	08/06/2021	21:00	0.9	112.5
05/06/2021	22:00	0	270	06/06/2021	22:00	0.9	0	07/06/2021	22:00	0.4	22.5	08/06/2021	22:00	0.4	67.5
05/06/2021	23:00	0.9	22.5	06/06/2021	23:00	1.3	0	07/06/2021	23:00	0.4	22.5	08/06/2021	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
09/06/2021	0:00	0.4	90	10/06/2021	0:00	0.4	135	11/06/2021	0:00	1.8	112.5	12/06/2021	0:00	1.3	112.5
09/06/2021	1:00	1.3	0	10/06/2021	1:00	0.9	135	11/06/2021	1:00	1.3	112.5	12/06/2021	1:00	1.8	112.5
09/06/2021	2:00	0.4	292.5	10/06/2021	2:00	1.3	67.5	11/06/2021	2:00	2.2	67.5	12/06/2021	2:00	1.3	112.5
09/06/2021	3:00	0.9	337.5	10/06/2021	3:00	0.4	22.5	11/06/2021	3:00	1.8	337.5	12/06/2021	3:00	2.2	157.5
09/06/2021	4:00	0.4	45	10/06/2021	4:00	0	67.5	11/06/2021	4:00	1.3	67.5	12/06/2021	4:00	1.8	90
09/06/2021	5:00	1.3	135	10/06/2021	5:00	0.4	67.5	11/06/2021	5:00	1.3	22.5	12/06/2021	5:00	1.3	67.5
09/06/2021	6:00	0	247.5	10/06/2021	6:00	0.4	247.5	11/06/2021	6:00	1.3	270	12/06/2021	6:00	0.9	67.5
09/06/2021	7:00	0.4	112.5	10/06/2021	7:00	1.3	67.5	11/06/2021	7:00	1.8	45	12/06/2021	7:00	1.3	112.5
09/06/2021	8:00	1.3	0	10/06/2021	8:00	1.8	90	11/06/2021	8:00	1.3	112.5	12/06/2021	8:00	0.9	180
09/06/2021	9:00	0.9	292.5	10/06/2021	9:00	1.3	90	11/06/2021	9:00	2.2	90	12/06/2021	9:00	1.8	90
09/06/2021	10:00	0.9	337.5	10/06/2021	10:00	1.3	0	11/06/2021	10:00	1.8	45	12/06/2021	10:00	2.2	112.5
09/06/2021	11:00	1.8	135	10/06/2021	11:00	1.8	112.5	11/06/2021	11:00	1.8	180	12/06/2021	11:00	2.2	112.5
09/06/2021	12:00	1.3	180	10/06/2021	12:00	0.9	90	11/06/2021	12:00	1.3	45	12/06/2021	12:00	2.7	112.5
09/06/2021	13:00	0.9	90	10/06/2021	13:00	2.2	90	11/06/2021	13:00	2.2	90	12/06/2021	13:00	2.2	90
09/06/2021	14:00	0.4	135	10/06/2021	14:00	1.8	90	11/06/2021	14:00	1.8	67.5	12/06/2021	14:00	2.7	112.5
09/06/2021	15:00	1.8	90	10/06/2021	15:00	1.3	180	11/06/2021	15:00	1.3	90	12/06/2021	15:00	1.8	90
09/06/2021	16:00	1.3	135	10/06/2021	16:00	1.3	45	11/06/2021	16:00	1.8	112.5	12/06/2021	16:00	2.2	112.5
09/06/2021	17:00	0.4	135	10/06/2021	17:00	1.3	112.5	11/06/2021	17:00	2.2	22.5	12/06/2021	17:00	1.3	112.5
09/06/2021	18:00	0.9	90	10/06/2021	18:00	1.8	90	11/06/2021	18:00	1.8	112.5	12/06/2021	18:00	1.3	112.5
09/06/2021	19:00	1.3	135	10/06/2021	19:00	1.3	247.5	11/06/2021	19:00	2.2	67.5	12/06/2021	19:00	1.8	90
09/06/2021	20:00	0.9	90	10/06/2021	20:00	2.2	67.5	11/06/2021	20:00	1.3	112.5	12/06/2021	20:00	2.2	135
09/06/2021	21:00	1.3	22.5	10/06/2021	21:00	1.8	337.5	11/06/2021	21:00	1.8	112.5	12/06/2021	21:00	2.7	90
09/06/2021	22:00	1.3	112.5	10/06/2021	22:00	1.3	135	11/06/2021	22:00	2.2	67.5	12/06/2021	22:00	1.8	90
09/06/2021	23:00	0.4	112.5	10/06/2021	23:00	1.8	112.5	11/06/2021	23:00	1.8	112.5	12/06/2021	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
13/06/2021	0:00	1.8	112.5	14/06/2021	0:00	1.3	135	15/06/2021	0:00	0	67.5	16/06/2021	0:00	0.9	45
13/06/2021	1:00	0.4	45	14/06/2021	1:00	0.9	67.5	15/06/2021	1:00	0.4	135	16/06/2021	1:00	0.9	67.5
13/06/2021	2:00	1.3	45	14/06/2021	2:00	0.9	67.5	15/06/2021	2:00	0.4	157.5	16/06/2021	2:00	0.9	202.5
13/06/2021	3:00	0.9	67.5	14/06/2021	3:00	0.9	67.5	15/06/2021	3:00	0.4	135	16/06/2021	3:00	0.9	67.5
13/06/2021	4:00	0.9	90	14/06/2021	4:00	1.3	67.5	15/06/2021	4:00	0.4	157.5	16/06/2021	4:00	1.3	67.5
13/06/2021	5:00	1.3	67.5	14/06/2021	5:00	0.9	67.5	15/06/2021	5:00	0.9	67.5	16/06/2021	5:00	0.9	90
13/06/2021	6:00	1.8	112.5	14/06/2021	6:00	0.9	135	15/06/2021	6:00	1.3	135	16/06/2021	6:00	0.9	337.5
13/06/2021	7:00	2.2	112.5	14/06/2021	7:00	0.4	22.5	15/06/2021	7:00	0.9	157.5	16/06/2021	7:00	0.9	45
13/06/2021	8:00	2.7	67.5	14/06/2021	8:00	0.4	157.5	15/06/2021	8:00	0.4	270	16/06/2021	8:00	1.3	45
13/06/2021	9:00	2.2	112.5	14/06/2021	9:00	0.9	45	15/06/2021	9:00	0	67.5	16/06/2021	9:00	0.9	90
13/06/2021	10:00	1.8	112.5	14/06/2021	10:00	0.9	90	15/06/2021	10:00	0.9	90	16/06/2021	10:00	1.3	90
13/06/2021	11:00	2.2	90	14/06/2021	11:00	1.3	90	15/06/2021	11:00	0.4	225	16/06/2021	11:00	0.9	45
13/06/2021	12:00	1.8	135	14/06/2021	12:00	1.3	67.5	15/06/2021	12:00	0.9	225	16/06/2021	12:00	1.3	67.5
13/06/2021	13:00	2.2	90	14/06/2021	13:00	0.9	45	15/06/2021	13:00	1.3	270	16/06/2021	13:00	0.9	67.5
13/06/2021	14:00	2.2	90	14/06/2021	14:00	1.3	112.5	15/06/2021	14:00	1.3	22.5	16/06/2021	14:00	0.9	90
13/06/2021	15:00	1.8	67.5	14/06/2021	15:00	0.9	90	15/06/2021	15:00	1.3	45	16/06/2021	15:00	0.9	45
13/06/2021	16:00	1.3	67.5	14/06/2021	16:00	0.9	135	15/06/2021	16:00	1.3	270	16/06/2021	16:00	0.9	67.5
13/06/2021	17:00	0.9	135	14/06/2021	17:00	0.9	67.5	15/06/2021	17:00	0.9	22.5	16/06/2021	17:00	0.9	45
13/06/2021	18:00	1.8	112.5	14/06/2021	18:00	0.9	45	15/06/2021	18:00	1.8	45	16/06/2021	18:00	0.4	22.5
13/06/2021	19:00	0.9	135	14/06/2021	19:00	1.3	90	15/06/2021	19:00	1.3	247.5	16/06/2021	19:00	1.3	90
13/06/2021	20:00	1.3	90	14/06/2021	20:00	0.9	90	15/06/2021	20:00	1.3	90	16/06/2021	20:00	1.3	112.5
13/06/2021	21:00	0.9	90	14/06/2021	21:00	1.3	90	15/06/2021	21:00	0.4	90	16/06/2021	21:00	1.3	45
13/06/2021	22:00	0.9	90	14/06/2021	22:00	1.3	67.5	15/06/2021	22:00	0.9	45	16/06/2021	22:00	0.9	45
13/06/2021	23:00	0.9	90	14/06/2021	23:00	0.4	67.5	15/06/2021	23:00	0.9	90	16/06/2021	23:00	0.9	157.5

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
17/06/2021	0:00	0.9	67.5	18/06/2021	0:00	1.3	22.5	19/06/2021	0:00	1.3	67.5	20/06/2021	0:00	1.3	247.5
17/06/2021	1:00	0.4	135	18/06/2021	1:00	1.3	22.5	19/06/2021	1:00	0.9	22.5	20/06/2021	1:00	0.9	247.5
17/06/2021	2:00	0.9	90	18/06/2021	2:00	0.9	22.5	19/06/2021	2:00	0.9	67.5	20/06/2021	2:00	0.9	247.5
17/06/2021	3:00	0.4	315	18/06/2021	3:00	1.8	270	19/06/2021	3:00	0.9	67.5	20/06/2021	3:00	0.9	45
17/06/2021	4:00	0.9	45	18/06/2021	4:00	1.3	247.5	19/06/2021	4:00	1.3	22.5	20/06/2021	4:00	0.4	270
17/06/2021	5:00	1.3	270	18/06/2021	5:00	1.3	247.5	19/06/2021	5:00	1.3	270	20/06/2021	5:00	2.7	270
17/06/2021	6:00	0.9	22.5	18/06/2021	6:00	1.3	270	19/06/2021	6:00	1.8	247.5	20/06/2021	6:00	1.8	270
17/06/2021	7:00	1.3	67.5	18/06/2021	7:00	0.9	0	19/06/2021	7:00	2.7	270	20/06/2021	7:00	1.3	225
17/06/2021	8:00	0.9	135	18/06/2021	8:00	0.9	247.5	19/06/2021	8:00	1.3	270	20/06/2021	8:00	0.9	225
17/06/2021	9:00	0.4	45	18/06/2021	9:00	2.7	247.5	19/06/2021	9:00	1.8	225	20/06/2021	9:00	1.8	247.5
17/06/2021	10:00	0.9	90	18/06/2021	10:00	1.8	90	19/06/2021	10:00	1.3	45	20/06/2021	10:00	2.2	247.5
17/06/2021	11:00	1.3	90	18/06/2021	11:00	0.4	247.5	19/06/2021	11:00	1.3	270	20/06/2021	11:00	1.3	67.5
17/06/2021	12:00	1.3	67.5	18/06/2021	12:00	1.3	90	19/06/2021	12:00	1.8	247.5	20/06/2021	12:00	0.9	67.5
17/06/2021	13:00	0.9	45	18/06/2021	13:00	0.9	90	19/06/2021	13:00	1.8	247.5	20/06/2021	13:00	1.3	22.5
17/06/2021	14:00	1.3	112.5	18/06/2021	14:00	0.9	90	19/06/2021	14:00	1.3	67.5	20/06/2021	14:00	1.3	45
17/06/2021	15:00	0.9	90	18/06/2021	15:00	1.3	45	19/06/2021	15:00	1.8	112.5	20/06/2021	15:00	0.9	90
17/06/2021	16:00	0.9	67.5	18/06/2021	16:00	1.3	135	19/06/2021	16:00	0.9	67.5	20/06/2021	16:00	1.3	90
17/06/2021	17:00	1.3	67.5	18/06/2021	17:00	0.9	157.5	19/06/2021	17:00	0.9	67.5	20/06/2021	17:00	1.3	90
17/06/2021	18:00	0.9	45	18/06/2021	18:00	1.3	157.5	19/06/2021	18:00	1.3	22.5	20/06/2021	18:00	0.9	67.5
17/06/2021	19:00	0.9	90	18/06/2021	19:00	1.3	67.5	19/06/2021	19:00	1.3	45	20/06/2021	19:00	0.9	67.5
17/06/2021	20:00	1.3	112.5	18/06/2021	20:00	1.3	67.5	19/06/2021	20:00	1.3	22.5	20/06/2021	20:00	1.3	90
17/06/2021	21:00	0.9	67.5	18/06/2021	21:00	1.8	67.5	19/06/2021	21:00	0.9	67.5	20/06/2021	21:00	0.9	45
17/06/2021	22:00	1.3	67.5	18/06/2021	22:00	0.9	90	19/06/2021	22:00	0.9	22.5	20/06/2021	22:00	1.3	67.5
17/06/2021	23:00	0.4	67.5	18/06/2021	23:00	1.3	90	19/06/2021	23:00	0.4	22.5	20/06/2021	23:00	1.3	67.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
21/06/2021	0:00	0.9	67.5	22/06/2021	0:00	0.9	112.5	23/06/2021	0:00	0.4	270	24/06/2021	0:00	0.4	180
21/06/2021	1:00	0.4	270	22/06/2021	1:00	0.4	45	23/06/2021	1:00	0.9	180	24/06/2021	1:00	0	180
21/06/2021	2:00	0.9	45	22/06/2021	2:00	0.4	225	23/06/2021	2:00	0.9	180	24/06/2021	2:00	0.4	157.5
21/06/2021	3:00	0.9	67.5	22/06/2021	3:00	0.4	67.5	23/06/2021	3:00	0.4	225	24/06/2021	3:00	0.9	67.5
21/06/2021	4:00	1.8	180	22/06/2021	4:00	0	135	23/06/2021	4:00	0.9	225	24/06/2021	4:00	0.4	67.5
21/06/2021	5:00	1.3	247.5	22/06/2021	5:00	0	135	23/06/2021	5:00	0.9	135	24/06/2021	5:00	0.4	90
21/06/2021	6:00	1.3	247.5	22/06/2021	6:00	0.9	270	23/06/2021	6:00	0.9	247.5	24/06/2021	6:00	0.9	67.5
21/06/2021	7:00	1.8	270	22/06/2021	7:00	2.7	247.5	23/06/2021	7:00	0.4	180	24/06/2021	7:00	1.3	157.5
21/06/2021	8:00	2.2	247.5	22/06/2021	8:00	2.2	157.5	23/06/2021	8:00	0.4	270	24/06/2021	8:00	0.9	67.5
21/06/2021	9:00	1.3	225	22/06/2021	9:00	1.8	270	23/06/2021	9:00	0.9	180	24/06/2021	9:00	0.9	67.5
21/06/2021	10:00	1.3	45	22/06/2021	10:00	1.3	270	23/06/2021	10:00	0.4	157.5	24/06/2021	10:00	1.3	315
21/06/2021	11:00	0.9	270	22/06/2021	11:00	0.4	157.5	23/06/2021	11:00	0.4	112.5	24/06/2021	11:00	1.3	90
21/06/2021	12:00	1.3	45	22/06/2021	12:00	0.4	157.5	23/06/2021	12:00	0.9	90	24/06/2021	12:00	0.4	337.5
21/06/2021	13:00	1.3	45	22/06/2021	13:00	0.4	247.5	23/06/2021	13:00	0.4	270	24/06/2021	13:00	0.4	112.5
21/06/2021	14:00	2.2	270	22/06/2021	14:00	0.9	225	23/06/2021	14:00	0.4	247.5	24/06/2021	14:00	0.4	225
21/06/2021	15:00	0.9	157.5	22/06/2021	15:00	0.4	270	23/06/2021	15:00	1.3	225	24/06/2021	15:00	0.9	90
21/06/2021	16:00	0.4	247.5	22/06/2021	16:00	0.9	247.5	23/06/2021	16:00	1.8	225	24/06/2021	16:00	0.4	225
21/06/2021	17:00	0.9	67.5	22/06/2021	17:00	0.4	202.5	23/06/2021	17:00	0.9	225	24/06/2021	17:00	0	270
21/06/2021	18:00	0.9	22.5	22/06/2021	18:00	0.4	202.5	23/06/2021	18:00	1.8	247.5	24/06/2021	18:00	0.4	135
21/06/2021	19:00	1.3	135	22/06/2021	19:00	0.4	202.5	23/06/2021	19:00	0	292.5	24/06/2021	19:00	1.3	67.5
21/06/2021	20:00	0.9	180	22/06/2021	20:00	1.3	135	23/06/2021	20:00	0.4	135	24/06/2021	20:00	0.9	67.5
21/06/2021	21:00	0.9	180	22/06/2021	21:00	1.8	90	23/06/2021	21:00	0	270	24/06/2021	21:00	0.4	45
21/06/2021	22:00	0.4	180	22/06/2021	22:00	0.9	247.5	23/06/2021	22:00	0.9	112.5	24/06/2021	22:00	0.9	90
21/06/2021	23:00	1.3	225	22/06/2021	23:00	0.4	247.5	23/06/2021	23:00	0	180	24/06/2021	23:00	0.4	135

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
25/06/2021	0:00	0.9	45	26/06/2021	0:00	0.9	157.5	27/06/2021	0:00	0.4	90	28/06/2021	0:00	0.9	135
25/06/2021	1:00	0.4	112.5	26/06/2021	1:00	0.4	157.5	27/06/2021	1:00	0.9	112.5	28/06/2021	1:00	0.4	112.5
25/06/2021	2:00	0.9	67.5	26/06/2021	2:00	0.4	135	27/06/2021	2:00	0.9	90	28/06/2021	2:00	0.9	112.5
25/06/2021	3:00	0.4	135	26/06/2021	3:00	0.4	90	27/06/2021	3:00	0.9	45	28/06/2021	3:00	1.3	90
25/06/2021	4:00	0.4	135	26/06/2021	4:00	0	22.5	27/06/2021	4:00	1.3	247.5	28/06/2021	4:00	0.9	225
25/06/2021	5:00	0.9	67.5	26/06/2021	5:00	0.4	112.5	27/06/2021	5:00	1.3	247.5	28/06/2021	5:00	1.3	67.5
25/06/2021	6:00	0.4	112.5	26/06/2021	6:00	0.9	112.5	27/06/2021	6:00	0.4	135	28/06/2021	6:00	2.2	180
25/06/2021	7:00	0.4	135	26/06/2021	7:00	0.4	112.5	27/06/2021	7:00	0.4	292.5	28/06/2021	7:00	0.4	225
25/06/2021	8:00	0.4	225	26/06/2021	8:00	0.4	247.5	27/06/2021	8:00	0.4	90	28/06/2021	8:00	0.4	225
25/06/2021	9:00	0.9	45	26/06/2021	9:00	0	315	27/06/2021	9:00	1.3	225	28/06/2021	9:00	1.3	247.5
25/06/2021	10:00	0.4	45	26/06/2021	10:00	0	45	27/06/2021	10:00	1.3	90	28/06/2021	10:00	0.9	112.5
25/06/2021	11:00	0.9	90	26/06/2021	11:00	0	247.5	27/06/2021	11:00	0.9	45	28/06/2021	11:00	0	90
25/06/2021	12:00	0.9	90	26/06/2021	12:00	0	247.5	27/06/2021	12:00	0.9	45	28/06/2021	12:00	0.4	90
25/06/2021	13:00	0.4	135	26/06/2021	13:00	0.9	202.5	27/06/2021	13:00	1.8	180	28/06/2021	13:00	0.4	180
25/06/2021	14:00	0	135	26/06/2021	14:00	0.4	270	27/06/2021	14:00	0.9	45	28/06/2021	14:00	0.4	180
25/06/2021	15:00	0.9	135	26/06/2021	15:00	0.4	292.5	27/06/2021	15:00	0.9	67.5	28/06/2021	15:00	0.9	157.5
25/06/2021	16:00	0.9	90	26/06/2021	16:00	0.4	135	27/06/2021	16:00	1.3	90	28/06/2021	16:00	0.4	45
25/06/2021	17:00	0	157.5	26/06/2021	17:00	0.4	112.5	27/06/2021	17:00	1.3	90	28/06/2021	17:00	0.9	67.5
25/06/2021	18:00	0.4	90	26/06/2021	18:00	0.4	135	27/06/2021	18:00	0.9	67.5	28/06/2021	18:00	0.9	67.5
25/06/2021	19:00	0	157.5	26/06/2021	19:00	0.9	225	27/06/2021	19:00	0.9	90	28/06/2021	19:00	0.4	112.5
25/06/2021	20:00	0.9	67.5	26/06/2021	20:00	0.4	225	27/06/2021	20:00	1.3	45	28/06/2021	20:00	0.9	67.5
25/06/2021	21:00	0.4	67.5	26/06/2021	21:00	0.9	67.5	27/06/2021	21:00	0.9	67.5	28/06/2021	21:00	0.9	112.5
25/06/2021	22:00	0.9	157.5	26/06/2021	22:00	0.4	90	27/06/2021	22:00	0.9	247.5	28/06/2021	22:00	1.3	112.5
25/06/2021	23:00	0.4	67.5	26/06/2021	23:00	0.9	67.5	27/06/2021	23:00	0.9	90	28/06/2021	23:00	1.3	67.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/06/2021	0:00	0.9	180	30/06/2021	0:00	0.9	202.5								
29/06/2021	1:00	0.9	135	30/06/2021	1:00	0.9	112.5								
29/06/2021	2:00	1.3	67.5	30/06/2021	2:00	0.9	112.5								
29/06/2021	3:00	0.9	112.5	30/06/2021	3:00	0.4	67.5								
29/06/2021	4:00	1.3	112.5	30/06/2021	4:00	1.3	90								
29/06/2021	5:00	1.3	67.5	30/06/2021	5:00	1.3	45								
29/06/2021	6:00	1.3	45	30/06/2021	6:00	0.9	202.5								
29/06/2021	7:00	0.9	180	30/06/2021	7:00	1.3	90								
29/06/2021	8:00	0.9	112.5	30/06/2021	8:00	1.3	112.5								
29/06/2021	9:00	1.3	45	30/06/2021	9:00	1.8	225								
29/06/2021	10:00	0.9	67.5	30/06/2021	10:00	1.3	202.5								
29/06/2021	11:00	1.8	67.5	30/06/2021	11:00	1.8	112.5								
29/06/2021	12:00	1.8	90	30/06/2021	12:00	1.8	45								
29/06/2021	13:00	0.9	67.5	30/06/2021	13:00	1.3	45								
29/06/2021	14:00	0.9	67.5	30/06/2021	14:00	1.3	112.5								
29/06/2021	15:00	1.3	45	30/06/2021	15:00	0.9	180								
29/06/2021	16:00	1.3	67.5	30/06/2021	16:00	1.8	180								
29/06/2021	17:00	0.4	180	30/06/2021	17:00	0.9	112.5								
29/06/2021	18:00	0.9	135	30/06/2021	18:00	0.9	180								
29/06/2021	19:00	0.4	90	30/06/2021	19:00	0.9	135								
29/06/2021	20:00	0.4	135	30/06/2021	20:00	0.9	67.5								
29/06/2021	21:00	0.9	67.5	30/06/2021	21:00	1.3	112.5								
29/06/2021	22:00	0.9	180	30/06/2021	22:00	0.9	90								
29/06/2021	23:00	0.9	157.5	30/06/2021	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

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

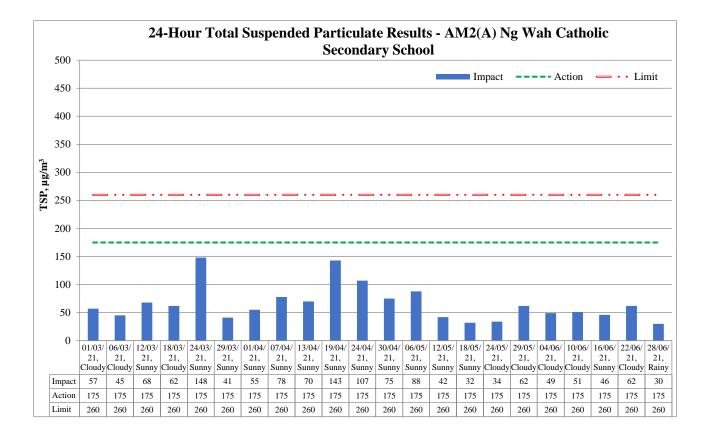
Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	$(\mu g/m^3)$
4/6/2021	Cloudy	28.9	1004.7	18.1181	18.2198	0.1017	5567.92	5591.93	1441	50	50	1.45	2085	49
10/6/2021	Cloudy	28.8	1005.6	15.1923	15.2981	0.1058	5592.84	5616.84	1440	50	50	1.45	2086	51
16/6/2021	Sunny	31.7	1006.3	18.3321	18.428	0.0959	5617.85	5641.86	1441	50	50	1.44	2076	46
22/6/2021	Cloudy	29.2	1005.1	18.4242	18.5543	0.1301	5642.55	5666.56	1441	50	50	1.45	2084	62
28/6/2021	Rainy	26.2	1005.2	18.7538	18.8158	0.062	5667.73	5691.73	1440	50	50	1.45	2095	30
												Maxir	num	62
												Minin	num	30
												Aver	age	48
												Action	Level	175
												Limit I	Level	260

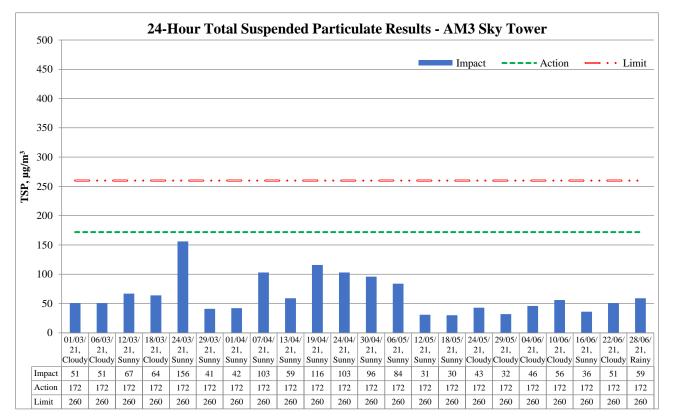
Location: AM2(A) – Ng Wah Catholic Secondary School

Location: AM3 – Sky Tower

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m <sup>3</sup> /min)	$(m^{3})$	$(\mu g/m^3)$
4/6/2021	Cloudy	28.9	1004.7	11.7047	11.8021	0.0974	3024.54	3048.56	1441	52	52	1.48	2129	46
10/6/2021	Cloudy	28.8	1005.6	11.6004	11.7195	0.1191	3049.63	3073.65	1441	52	52	1.48	2130	56
16/6/2021	Sunny	31.7	1006.3	18.6983	18.7741	0.0758	3074.07	3098.09	1441	52	52	1.47	2121	36
22/6/2021	Cloudy	29.2	1005.1	14.8653	14.9741	0.1088	3099.15	3123.17	1441	52	52	1.48	2128	51
28/6/2021	Rainy	26.2	1005.2	15.1921	15.3173	0.1252	3124.11	3148.13	1441	52	52	1.48	2140	59
												Max	imum	59
												Mini	imum	36
												Ave	erage	49
												Action	n Level	172
												Limit	Level	260

#### 24-hour average TSP





		Reportin	g Period	
Major Construction Activities	Mar	Apr	May	Jun
	2021	2021	2021	2021
Construction of box culvert	✓	✓	✓	
Bored pile works for landscape elevated walkway	✓	✓	✓	✓
Demolition of existing structure and cottage	✓			
Construction of project signboard	✓			
Pre-drilling works and trial pit excavation	✓	✓	✓	
Drainage works	✓			
Temporary road diversion at Sa Po Road		✓	$\checkmark$	
Demolition of existing structure at SB-01		✓		
Pre-drilling work for S14 and KS10		✓		
Drainage works for Pedestrian Street No.1 & No.2		✓	$\checkmark$	
Drainage works for Crowd Dispersal Route		✓	$\checkmark$	
Instrumentation installation at SB-01			$\checkmark$	$\checkmark$
Pre-drilling work for S14			$\checkmark$	$\checkmark$
Removal existing piles at Road D1			$\checkmark$	$\checkmark$
Rising main construction			$\checkmark$	$\checkmark$
Trial pit excavation				$\checkmark$
Advance works for traffic diversion at Sa Po Road				$\checkmark$
Drainage works for Pedestrian Street No.1, No,2 & No.3				✓
Construction of Crowd Dispersal Route				✓

		Reportin	ig Period	
Factors might affect the monitoring results	Feb 2021	Mar 2021	Apr 2021	May 2021
Non-project related construction activities in the adjacent construction sites were observed.	✓	~	~	~

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

	Date	Measure	emer	nt Period	1-hr TSP concentration, $\mu g/m^3$	Weather
Location:		9:00	-	10:00	40	
AM2(A) –	04/06/2021	10:00	-	11:00	38	Cloudy
Ng Wah Catholic		11:00	-	12:00	42	
Secondary School		13:00	-	14:00	30	
Secondary School	10/06/2021	14:00	-	15:00	35	Cloudy
		15:00	-	16:00	38	
		9:00	-	10:00	35	
	16/06/2021	10:00	-	11:00	39	Sunny
		11:00	-	12:00	40	
		9:00	-	10:00	40	
	22/06/2021	10:00	-	11:00	38	Cloudy
		11:00	-	12:00	42	
		13:00	-	14:00	24	
	28/06/2021	14:00	-	15:00	28	Rainy
		15:00	-	16:00	23	
	N	laximum			42	
	Ν	linimum			23	
		Average			35	
		tion Level	l		302	
	Li	mit Level			500	

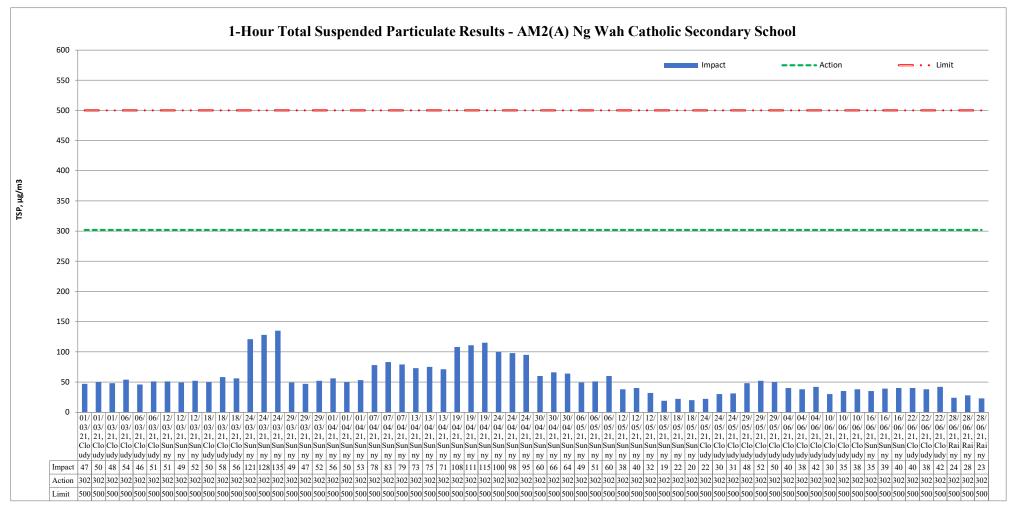
Date	Measure	emer	nt Period	1-hr TSP concentration, $\mu g/m^3$	Weather
	9:00	-	10:00	29	
04/06/2021	10:00	-	11:00	30	Cloudy
	11:00	-	12:00	34	
	9:00	-	10:00	33	
10/06/2021	10:00	-	11:00	37	Cloudy
	11:00	-	12:00	36	
	13:00	-	14:00	24	
16/06/2021	14:00	-	15:00	28	Sunny
	15:00	-	16:00	28	
	13:00	-	14:00	33	
22/06/2021	14:00	-	15:00	33	Cloudy
	15:00	-	16:00	39	
	15:30	-	16:30	34	
28/06/2021	16:30	-	17:30	37	Rainy
	17:30	-	18:30	38	
Ν	laximum			39	
N	<i>l</i> inimum			24	
	Average			33	
Ac	tion Level			301	
Li	mit Level			500	

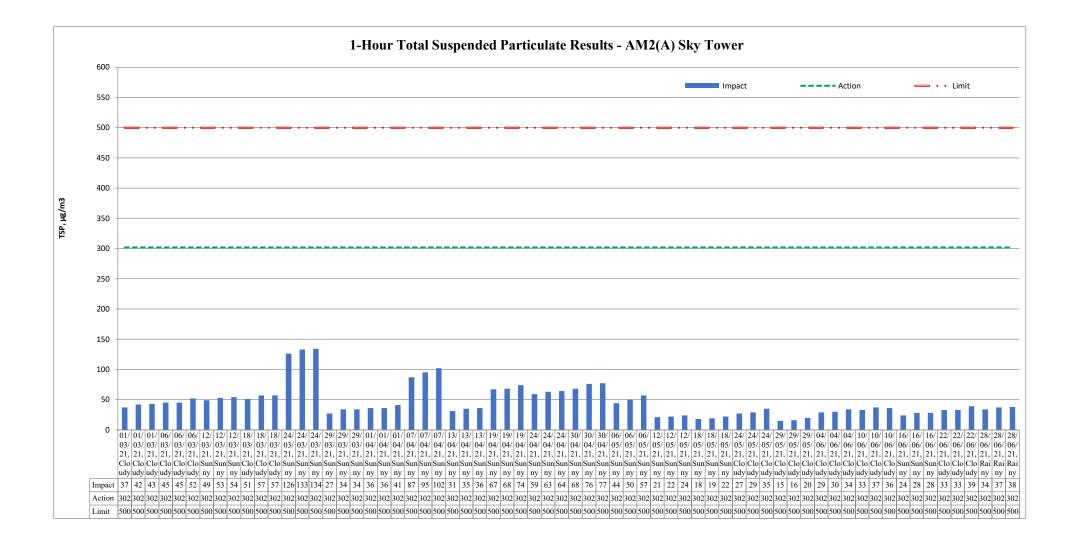
## Location:

## AM3 -

Sky Tower







Maian Construction Activities		Reportir	porting Period		
Major Construction Activities	Mar 2021	Apr 2021	May 2021	Jun 2021	
Construction of site hoarding					
Construction of publicity board					
Construction of box culvert	✓	~	✓		
Pre-drilling works					
Bored pile works for landscape elevated walkway	✓		✓	$\checkmark$	
Demolition of existing structure and cottage	✓				
Construction of project signboard	✓				
Pre-drilling works and trial pit excavation	✓	✓	✓		
Drainage works	✓	✓			
Temporary road diversion at Sa Po Road		✓	✓		
Demolition of existing structure at SB-01		✓			
Pre-drilling work for S14 and KS10		✓			
Drainage works for Pedestrian Street No.1 & No.2		✓	✓		
Drainage works for Crowd Dispersal Route		✓	✓		
Instrumentation installation at SB-01			✓	$\checkmark$	
Pre-drilling work for S14			✓	$\checkmark$	
Removal existing piles at Road D1			✓	$\checkmark$	
Rising main construction			✓	$\checkmark$	
Trial pit excavation				$\checkmark$	
Advance works for traffic diversion at Sa Po Road				$\checkmark$	
Drainage works for Pedestrian Street No.1, No,2 & No.3				✓	
Construction of Crowd Dispersal Route				$\checkmark$	

	Reporting Period						
Factors might affect the monitoring results	Feb 2021	Mar 2021	Apr 2021	May 2021			
Non-project related construction activities in the adjacent construction sites were observed.	~	~	✓	✓			

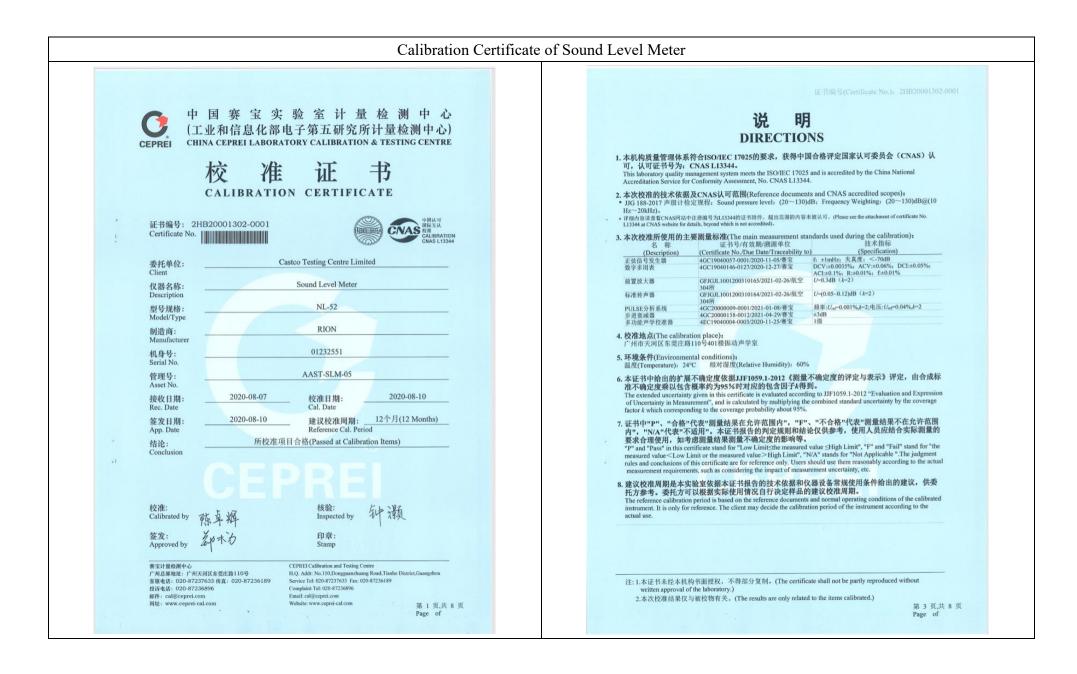
Appendix I – Event and Action Plan for air quality

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

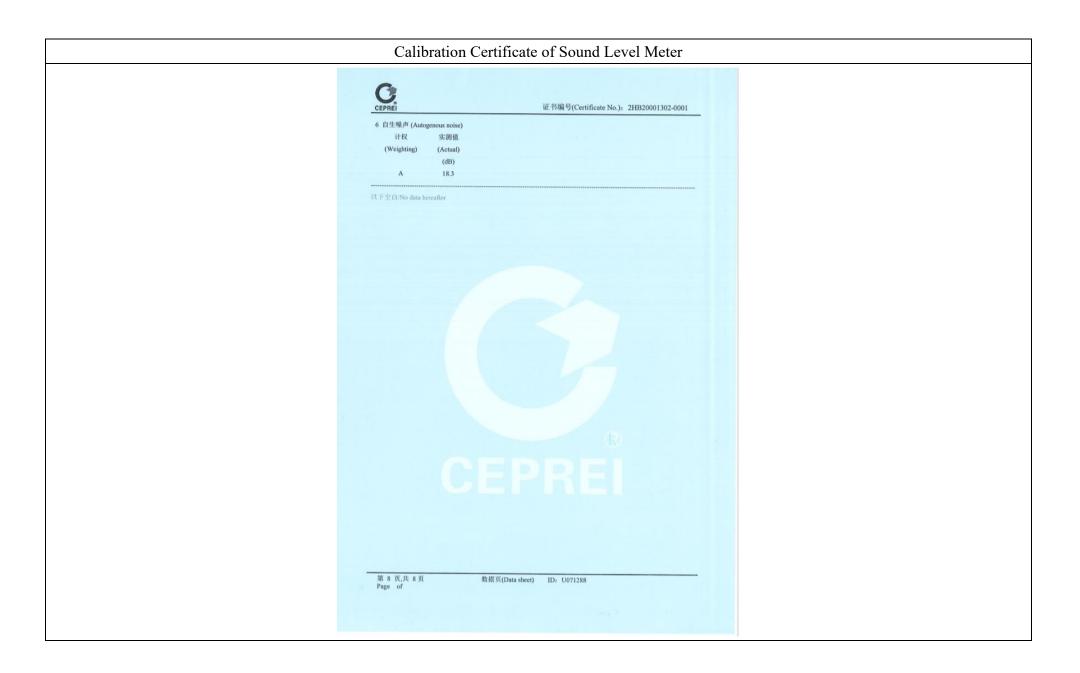
E (		Ac	tion	
Event	ЕТ	IEC	Supervisor / ER	Contractor
	Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results.	on the effectiveness of the proposed remedial measures.	<ul> <li>implemented;</li> <li>4. Supervise implementation of remedial measures;</li> <li>5. Conduct 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> </ol>	<ul> <li>submitted by ET;</li> <li>Check Contractor's working method;</li> </ul>	<ul> <li>notification of exceedance in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise implementation of remedial measures;</li> </ul>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Discuss with ET and IEC on proper remedial actions;</li> <li>Submit proposal for remedial actions to Supervisor /ER and IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Submit further remedial actions if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.</li> </ol>
	<ol> <li>If exceedance stop, cease additional monitoring.</li> </ol>			

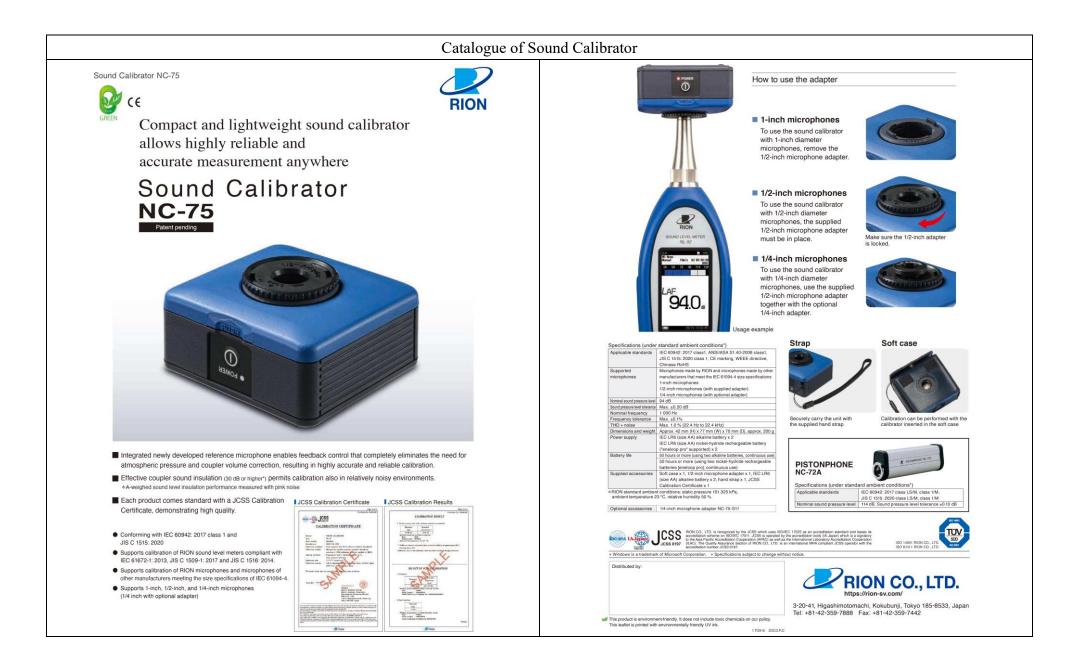
Appendix J – Calibration certificates, catalogue of noise monitoring equipment

Spec	ifications	1520.	1720.					
	•	NL-52	NL-42	Data Setup	recall p memo	iry	Allows viewing of stored data Up to five setup configurations of	an be saved in internal memory, for later reca
Applicabl	le standards	IEC 61672-1: 2002 Class 1	EC 61672-1: 2002 Class 2				Start up via file settings previou	
		ANSI S1.4-1983 Type 1	ANSI S1.4-1983 Type 2		form reco le forma		Uncompressed waveform WAV	E file
	•	ANSI S1.4A-1985 Type 1 ANSI S1.43-1997 Type 1	ANSI S1.4A-1985 Type 2 ANSI S1.43-1997 Type 2		ampling fr		Select 48 kHz, 24 kHz or 12 kH	Z
		JIS C 1509-1: 2005 Class 1	JIS C 1509-1: 2005 Class 2 8. C, Low Voltage Directive 2006/95/EC),		ata leng s DC ou		Select 24 bit or 16 bit Output DC signals using a frequent	cy weighting characteristic selected by processin
		WEEE Directives, Chinese RoHS	(export model for China only)		Ou AC ou	tput voltage	2.5 V, 25 mV / dB at bar graph	display full scale Jency weighting characteristic selected by
Measure	ment functions	Simultaneous measurement of th weighting and frequency weighting	e following items, with selected time a				processing or by A, C, Z-weight	ling.
Proces	ssing (main ch)	Instantaneous sound pressure le	/el: Lp			tput voltage parator	1 V (rms values) at bar graph d Turns on when the open-collect	isplay full scale tor output exceeds the set value
		Equivalent continuous sound pres Sound exposure level: Le	sure level: Leg		outpu		(max. applied voltage 24 V, max.	current 60 mA, allowable dissipation 300 mW
		Maximum sound pressure level: I		USBC			Allows USB to be connected to a Allows USB to be controlled via o	computer and recognized as a removable dis communication commands
		Minimum sound pressure level: L Percentile sound levels: LN (0.1 to	<sup>nin</sup> 99.9 %, 0.1-increment steps, max. 5 values)			mmunication	Allows for RS-232C communication	ation via use of a dedicated cable
	ssing (sub ch) onal processing	Instantaneous sound pressure le				ous output * 2 nstantaneous value	Lp	
Aduite	and processing	for simultaneous processing:		dat	ata P utput int	Processed value	Leq, Lmax, Lmin, Lpeak 100 ms	
		C-weighted equivalent continuous C-weighted peak sound level: Lcs		Print	out		Printing of measurement result	s on dedicated printer DPU-414
		Z-weighted peak sound level: Lzp	eak		ər requir attery life	ements e (23 °C)		ne or rechargeable batteries) or external power supply Ni-MH secondary battery: 25 h
		I-time-weighted equivalent continuo Maximum I-time-weighted equivaler					At the maximum * Depends on	the setting
		The power average of the maximum	level of each 5 second interval: LAtm5		C adapte kternal p	er ower voltage	NC-98C (NC-34 for previous m 5 to 7 V (rated voltage: 6 V)	odels cannot be used)
		The frequency weighting for the additional of the sub-channel, so when the sub-channel	processing synchronizes with the frequency weighting lel has A-weighting, LAtm5 can be selected.	Cu	urrent co	onsumption	Approximately 90 mA (normal of	peration, rated voltage)
		When C-weighting (Z-weighting ) is sele	cted, the additional processing Lceq and Lcpeak	Ambie condit		Temperature Humidity	-10 to +50 °C 10 to 90 % RH (non-condensing	g)
Measurin	ng time	(Lzpeak) are selectable. 10 s, 1, 5, 10, 15, 30 m, 1, 8, 24 h	i, and manual (maximum 24 h)	Dustp	proof / wa	ater-resistant	IP code: IP54 (except for micro See precautions regarding wate	phone)
Microphone		UC-59	UC-52 -33 dB		rmance* ensions,			arproofing nm(D), approx. 400 g (with batteries)
Measure	ment range	A-weighting: 25 dB to 138 dB	-55 08	Suppl	lied acc	essories		S-10 x 1, Windscreen fall prevention rubber x 1, batteries x 4, SD card 512 MB×1 (NX-42EX
		C-weighting: 33 dB to 138 dB Z-weighting: 38 dB to 138 dB					preinstalled model only)	
		C-weighting peak sound level: 55		Opti	ions			
Inherent	A-weighting	Z-weighting peak sound level: 60 17 dB or less	dB to 141 dB 19 dB or less				duct name	Product number
noise	C-weighting	25 dB or less	27 dB or less				m (Inst.on 512 MB SD card) ram*2 (Inst.on 2 GB SD card)	NX-42EX NX-42WR
Frequenc	Z-weighting by range	30 dB or less 20 Hz to 20 kHz	32 dB or less 20 Hz to 8 kHz				ysis program *2 (Inst.on 512 MB SD card)	NX-42RT NX-42FT
Frequend Time wei	cy weighting	A, C, and Z F (Fast) and S (Slow)					Inst.on 512 MB SD card) of renvironmental measurement	NX-42F1 AS-60
Level ran	ige	Single range (Linearity range: 113	i dB)	Data i (Includ	manage ides the c	ement software octave and 1/3	octave data management software)	AS-60RT
	ph display range max ng of bar graph display	Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB	increments	Data i (Inclu	manage udes the	ement software e vibration leve	e for environmental measurement el data management software)	AS-60∨M
RMS det	ection circuit	Digital processing method		Wave	eform ar	nalysis softwa		CAT-WAVE
Sampling	) cycle	20.8 μs (Lp, Leq, LE, Lmax, Lmin, Lp 100 ms (Ln)	eak : sampling frequency: 48 kHz)		Card 512 Card 2 G			SD-512M SD-2G
Calibratio	on		n performed according to IEC and JIS standards,		adapter ( ery pack	(100 ∨ to 240	$\vee$ )	NC-98C BP-21
Correctio	n functions	Windscreen correction:	ustic calibration performed with the NC-74.	Micro	ophone	extension cat	bles	EC-04 (from 2 m)
		Compliant with IEC 61672-1 and JIS C Diffuse sound field correction:	509-1 standards when the windscreen is installed.			put code output cable		CC-24 CC-42C
		Correction of frequency character	ristics in order to comply with standards	Printe	er			DPU-414
Delay tim	10	(ANSI S1.4) in diffuse sound field The meter can be set to start meas	uring a specified time (OFF, 1, 3, 5 or 10 s)		er cable 232C ser	rial ⊥/O cable		CC-42P CC-42R
		after the start button has been pre-	sed or when a user-set trigger is exceeded.		cable	ator		— NC-74
back era	se function	When the PAUSE key is pressed (user selectable) 0, 1, 3 or 5 s da	to pause measurement, the preceding a are excluded from processing.	All-we	eather v	windscreen		WS-15
Display			LCD display WQVGA (400 x 240 dots)			mounting ada ion windscree		WS-15006 WS-16
		Numerical display update frequency	1 state Bar graph update frequency: 100 ms	Soun	nd level i	meter tripod		ST-80
Store M	anual Number of data	Data for measurement results are s Internal memory: max. 1000 sets	tored manually in single address increments.	*1Use	e Rion fu	windscreen tri Ily guaranteed p	products. *2 NX-42EX required (sold	ST-81 separately). *3 NX-42WR required (sold separate
88		SD Card: depends on the capacit		*4 Pro	otection	against harm regarding w	ful dust and water splashing from	any direction.
EEEA	uto*2	Instantaneous values (Lp mode) a stored continuously and automati	ind processed values (Leg mode) are cally at preset intervals.	Before	e use, ve	erify that the ru	bber bottom cover and the battery	
I E	Lp sampling cycle	100 ms, 200 ms, 1 s, Leg 1s		to mai	antain th	e water and du	ust proof rating, internal packing re	placement is required every two years (at cost
I E	Leg sampling cycle Measurement Time							ISO 1 <u>4001</u>
								T1"B /
Window	ve ie a tradomo	rk of Microsoft Corporation.						
		to change without notice.						ISO 14001 RION CO., LTD. ISO 9 0 0 1 RION CO., LTD.
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							motomachi, Kokubu 7888 Fax: +81-42-	nji, Tokyo 185-8533, Japaı 359-7442
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CEPREI		证书编号(Certificate No.	): 2HB20001302-0	001		CEPREI			证书编号	号(Certificate No.):	2HB2000130	2-0001
	全查 (Appearance and Function C	Theck)				4 A计权特性(A-V	Veighting Cha	racteristic)				
	2准结果准确度的因素和缺陷。					频率	实测值	理论值	误差	允许误差	结论	U
		bration result accuracy of the certi-	ficate.			(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	(k=2)
						(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
2 指示声级调整 (Indi	cation SPL Calibration)	频	率(Frequency)=1000H	Iz		20	-48.8	-50.5	1.7	±2.0	Р	0.5
传声器型号	传声器编号	放大器型号	放大器编号			25	-44.1	-44.7	0.6	+2.0 ~ -1.5	р	0.5
(Microphone Type)	(Microphone SN.)	(Preamplifier Type)	(Preamplifier SN.)			31.5	-39.3	-39.4	0.1	±1.5	Р	0.5
UC-59	10043	NH-25	87890			40	-34.4	-34.6	0.2	±1.0	Р	0.5
7.0/20						50	-30.2	-30.2	0.0	±1.0	р	0.5
声校准器型号	标准声压级	校准前示值	<b>应准后示值</b>	U		63	-26.2	-26.2	0.0	±1.0	Р	0.5
(Calibrator Type)	(Reference SPL)	(Before Calibration) (Af	ter Calibration)	(k=2)		80	-22.4	-22.5	0.1	±1.0	Р	0.5
	(dB)	(dB)	(dB)	(dB)		100	-19,1	-19.1	0.0	±1.0	Р	0.5
4226	94.0	90.8	94.0	0.2		125	-16.2	-16.1	-0.1	±1.0	р	0.5
						160	-13.2	-13.4	0.2	±1.0	р	0.5
3 级线性 (Level Linea	rity)					200	-10.8	-10.9	0.1	±1.0	р	0.5
3.1 参考级量程(Ret	erence Range) #	勇率(Frequency): 8000Hz				250	-8.7	-8.6	-0.1	±1.0	Р	0.5
		级(Sound Level Indication of Star	t Point): 90.0 dB			315	-6.6	-6.6	0.0	±1.0	Р	0.4
起始点以上间	I陽10dB点的最大误差(Maximu	m Error for each 10dB above Star	t Point): -0.1 dB			400	-4.8	-4.8	0.0	±1.0	Р	0.4
		U	(k=2) 0.6 dB			500	-3.2	-3.2	0.0	±1.0	Р	0.4
上限以下5dB间隔1	dB点的最大误差(Maximum Err	ror for each 1dB below Upper Lin	nit 5dB): -0.1 dB			630	-1.9	-1.9	0.0	±1.0	Р	0.4
		U	(k=2) 0.6 dB			800	-0.8	-0.8	0.0	±1.0	р	0.4
起始点以下间	I隔10dB点的最大误差(Maximu	m Error for each 10dB below Star	t Point): -0.1 dB			1000(Ref.)	0.0	0.0	0.0	±0.7	Р	0.4
		U	(k=2) 0.6 dB			1250	0.6	0.6	0.0	±1.0	Р	0.6
下限以上5dB间隔1	dB点的最大误差(Maximum Err	ror for each 1dB above Lower Lin	uit 5dB): -0.2 dB			1600	1.0	1.0	0.0	±1.0	Р	0.6
		U	(k=2) 0.6 dB			2000	1.2	1.2	0.0	±1.0	Р	0.6
						2500	1.3	1.3	0.0	±1.0	Р	0.6
3.2 其它级量程 (Oth		频率(Frequency): 1000Hz				3150	1.2	1.2	0.0	±1.0	Р	0.6
		级(Sound Level Indication of Star				4000	1.0	1.0	0.0	±1.0	Р	0.6
起始点以上前	]隔10dB点的最大误差(Maximu	m Error for each 10dB above Star				5000	0.6	0.5	0.1	±1.5	Р	0.6
			(k=2) 0.4 dB			6300 8000	0.0	-0.1	0.1	+1.5 ~ -2.0	Р.	0.6
上限以下5dB间隔	ldB点的最大误差(Maximum Err	ror for each 1dB below Upper Lin				10000	-1.0	-1.1	0.1	+1.5 ~ -2.5	Р	0.6
			(k=2) 0.4 dB			12500	-2.4 -4.4	-2.5	0.1	+2.0 ~ -3.0	Р	0.6
起始点以下前	]隔10dB点的最大误差(Maximu	im Error for each 10dB below Star				12500		-4.3	-0.1	+2.0 ~ -5.0	Р	1.0
			(k=2) 0.4 dB			20000	-8.0 -14.2	-6.6	-1.4	+2.5 ~ -16.0	p	1.0
下限以上5dB间隔	ldB点的最大误差(Maximum Err	ror for each 1dB above Lower Lin				20000	-14.2	-9.3	-4.9	+3.0 ~ -00	Р	1.0
		U	(k=2) 0.4 dB									
	数据页(Data s	sheet) ID: U071288	第5页,1	共 8 页		第 6 页,共 8 页 Page of		数据页(Data she	et) ID: U	071288		

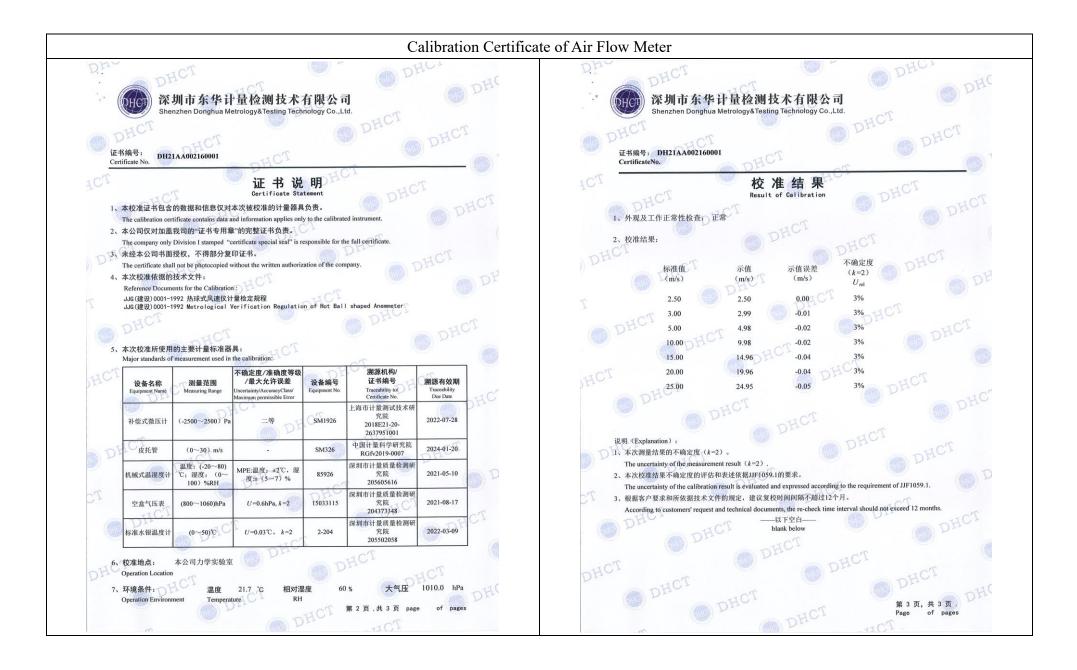




Calibration Certificate	of Sound Calibrator
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密皮:     加水市内     印章: Stamp       東京市最松期中心     「日章: Stamp       東京市最松期中心     CEPREI Calibration and Testing Centre       广州总部地址: 广州天河区东東庄第110号     H.Q. Addr. No. 110;Dongganzhuang Rod. Tianhe District.Guangzhou       客服电话: 020-87236896     Service Tel: 020-87236199       投が电话: 020-87236896     Complaint Tel: 020-87236189       商時: calleeprei.can     Website: www.ceprei-cal.com     第 1 页,其 5 页       Page of     Page of	注: 1.本证书未经本机构书面授权。不得部分复制。(The certificate shall not be partly reproduced without written approval of the laboratory.) 2.本次校准结果仅与被校物有关。(The results are only related to the items calibrated.) 第 3 页.共 5 页 Page of

 Calibration C	ertificate of	Sound	Calibra	tor	 
Canoration C		Sound	Callola	101	 
CEPREI	证书线	编号(Certificate	No.): 2HB2000	01561-0003	
1 外观与工作正常性检查 (Appearan 无影响证书中校准结果准确f There are no factor and defect	度的因素和缺陷。	ult accuracy of the	certificate.		
2 声压级 (Sound Pressure Level)					
規定声压级 测量声压级 (Prescribed SPL) (Measured SPL) (dB) (dB) 94 94.07	声压级差的绝对值 ) (Absolute value of SPL) (dB) 0.07	允许范围 (Limit) (dB) ≤0.40	结论 (Pass/Fail) P	U (k=2) (dB) 0.10	
3 频率 (Frequency)					
规定频率 测量频率	频率误差的绝对值	允许范围	结论	Urel	
	(Absolute value of Fre.)	(Limit) (%)	(Pass/Fail)	(k=2) (%)	
(Hz) (Hz) 1000 1000.0	(%) 0.00	≤1.00	Р	0.10	
4 总失真 (Distortion)					
规定声压级 规定频率	总失真	允许范围	结论	Urel	
(Prescribed SPL) (Measured Fre.		(Limit)	(Pass/Fail)	(k=2)	
(dB) (Hz) 94 1000	(%) 0.08	(%) ≤3.00	(R) P	(%) 5.0	
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			Pa	ge of	

Catalo	gue of Air Flow	v Meter ('	TSI T.	A440)		Calibration Certificate of Air Flow Meter
SPECIFICATION	5					DHCT AAST-FLOW-03, Gel Got 2021/2/26
THERMAL ANEMO	METERS					深圳市东华计量检测技术有限公司 Shenzhen Donghua Metrology&Testing Technology Co.,Ltd.
MODELS TA410, TA	430 AND TA440					DHCT DIGITAL MELLONGY RESULT RECIPICIOUS CO., L.C. DHCT
Velocity Range (TA410) Range (TA430, TA440)	0 to 20 m/s (0 to 4,000 ft/min) 0 to 30 m/s (0 to 6,000 ft/min)	Time Constant (Ta User selectable		))		CALIBRATION CERTIFICATE
Accuracy (TA410) <sup>162</sup>	±5% of reading or ±0.025 m/s (±5 ft/min), whichever is greater	External Meter Di 8.4 cm x 17.8 cm x 4		7.0 in. x 1.8 in.	)	
Accuracy (1A430, 1A440)* Resolution	<sup>e</sup> ±3% of reading or ±0.015 m/s (±3 ft/min), whichever is greater 0.01 m/s (1 ft/min)	Meter Weight wit 0.27 kg (0.6 lbs.)	th Batteries			LETIZMIT: DH21AA002160001
Duct Size (TA430, TA44 Dimensions	0) 1 to 635 cm in increments of 0.1 cm (1 to 250 inches in increments of 0.1 in.)	<b>Meter Probe Dime</b> Probe Length Probe Diameter of T	101.6	cm (40 in.) m (0.28 in.)		委托方名称: Client name Castco Testing Centre Limited
Volumetric Flow Rate ('		Probe Diameter of E		nm (0.51 in.)		委托方地址: 33, On Kui Street, Fanling, N.T.
Range	Actual range is a function of velocity, and duct size	Articulating Prob Articulating Section Length		<b>s</b> m (7.8 in.)		计量器具有新: Name of Instrument
Temperature Range (TA410, TA430) Range (TA440)	-18 to 93°C (0 to 200°F) -10 to 60°C (14 to 140°F)	Diameter of Articulating Knuckle		m (0.38 in.)		型号/规格: Type/Specification TA440
Accuracy <sup>a</sup> Resolution	±0.3°C (±0.5°F) 0.1°C (0.1°F)	Four AA-size batter		ter		制造单位: AIRFLOW DECC
Relative Humidity (TA4			TA410	TA430, TA430-A	TA440,	Manufacturer Hand Con
Range Accuracy4	5 to 95% RH ±3% RH	Velocity range 0 to 20.00 m/s	+	1A430-A	1A440-A	器具编号: AAST-FLOW-03/TA4401706003
Resolution Wet Bulb Temperature	0.1% RH	(0 to 4000 ft/min) Velocity range 0 to 30.00 m/s		+	+	
Range Resolution	5 to 60°C (40 to 140°F) 0.1°C (0.1°F)	(0 to 6000 ft/min) Temperature	+	+	+	接收日期: 2021 年 02 月 23 日 Date of Receipt
		Flow		+	+	校准日期: 2021 年 02 月 26 日
Dew Point (TA440 only Range	-15 to 49°C (5 to 120°F)	Humidity, wet bulb, dew point			+	Date of calibration Year, <sup>12</sup> Wonth <sup>20</sup> Day
Resolution	0.1°C (0.1°F)	Probe	Straight	Straight or -A articulated	Straight or -A articulated	Az DHU
Instrument Temperatu Operating (Electronics)	s to 45°C (40 to 113°F)	Variable time constant		+	+	批准人: 蒋荣飞 签发日期: 2021 年 02 月 26 日
Operating (Electronics) Model TA410, TA430 Operating (Probe)	-18 to 93°C (0 to 200°F)	Manual data logging		+	+	Approved by Date of issue Year Month Day
Model TA440	-10 to 60°C (14 to 140°F)	Auto save data logging			+	DH the tree is the second
Operating (Probe) Storage	-20 to 60°C (-4 to 140°F)	Statistics		+	+	核協員: 200 を 大 张吉庆 は二個時後会会 9
Data Storage Capabilitio	es (TA430, TA440)	Review data		+	+	Checked by
Range	12,700+ samples and 100 test IDs	LogDat2 downloading		+	+	(证书考用章)
Logging Interval (TA43 1 second to 1 hour	D, TA440)	software Free Certificate of Calibration	+	+	+	校准员: パタ オリッチ 蒋新建 Stamp Calibrated by  新新建 Stamp  日朝重要 Piag (武術)
Specifications subject to change with	out notice.	<sup>1</sup> Temperature compensated				计量校准机构备案号:粤校备2017B010 Register No:粤校备2017B010
ISI and the TSI logo are registered tra the Airflow logo and LogDat2 are trac	demarks, and Airflow, emarks of TSI Incorporated.	<sup>2</sup> The accuracy statement be for the Model TA410, and 3 Models TA430 and TA440. <sup>3</sup> Accuracy with instrument for change in instrument to "Accuracy with probe at 25" change in probe temperatu	30 ft/min through 6,0 case at 25°C (77°F), a emperature. °C (77°F), Add uncert	000 ft/min (0.15 m/s ) add uncertainty of 0.0 ainty of 0.2% RH/°C	:hrough 30 m/s) for )3°C/°C (0.05°F/°F)	地址:深圳市龙华区大浪街道同胜社区蒲华科技园厂房 A1层 电话: 0755-28161768/28162768/28166778
INSTR Airflow Instruments, TSI In	UMENTS					传真: 0755-21004376 邮编: 518109 网址: www.szdhjl.com 电子邮箱: szdhjl@163.com
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France Tel: +33 491 11	37.64	10				DHCT 第1页,共3页 page of pages
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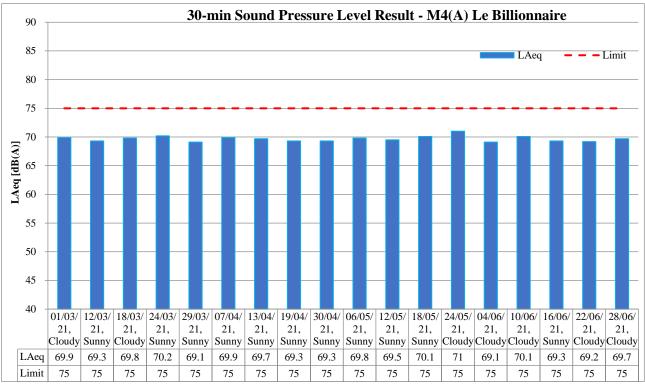
Appendix K – Noise monitoring results and graphical presentation

## M4(A) – Le Billionnaire

D	Temp	XX7 .1			Measured	l Noise Lev	el at M4(A	.), dB(A)		<b>T</b> • • •
Date	(°C)	Weather	r	Гi	me	Baseline	$L_{Aeq}$	L <sub>A10</sub>	L <sub>A90</sub>	Limit
04/06/2021	28.9	Cloudy	13:30	-	14:00	69.5	69.1	71.8	67.2	75
10/06/2021	28.8	Cloudy	9:35	-	10:05	69.5	70.1	73.1	66.8	75
16/06/2021	31.7	Sunny	13:05	-	13:35	69.5	69.3	72.3	67.5	75
22/06/2021	29.2	Cloudy	10:15	-	10:45	69.5	69.2	72.5	67.3	75
28/06/2021	26.2	Cloudy	17:05	-	17:35	69.5	69.7	70.7	68.5	75
					Maximum		70.1			
					Minimum		69.1			
					Average		69.5			

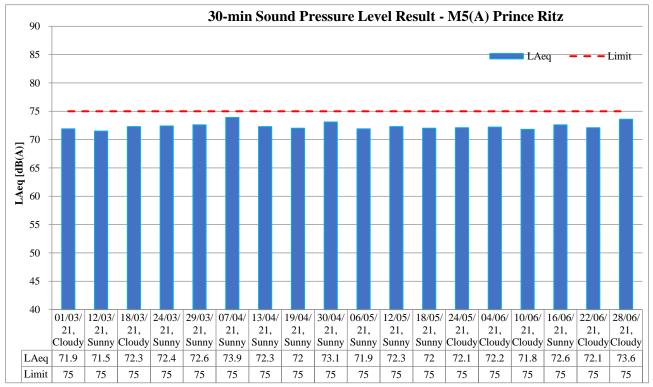
## M5(A) – Prince Ritz

D	Date Temp Wes				Measured	l Noise Lev	Measured Noise Level at M5(A), dB(A)									
Date	(°C)	Weather	r	Гiı	me	Baseline	$L_{Aeq}$	L <sub>A10</sub>	L <sub>A90</sub>	Limit						
04/06/2021	28.9	Cloudy	14:35	-	15:05	72.5	72.2	74.1	69.7	75						
10/06/2021	28.8	Cloudy	10:45	-	11:15	72.5	71.8	73.5	68.8	75						
16/06/2021	31.7	Sunny	14:05	-	14:35	72.5	72.6	74.8	69.8	75						
22/06/2021	29.2	Cloudy	11:15	-	11:45	72.5	72.1	74.5	70.0	75						
28/06/2021	26.2	Cloudy	16:08	-	16:38	72.5	73.6	75.0	71.8	75						
					Maximum		73.6									
					Minimum		71.8									
					Average		72.5									



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

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



		Reportin	g Period	
Major Construction Activities	Mar	Apr	May	Jun
	2021	2021	2021	2021
Construction of box culvert	✓	✓	✓	
Bored pile works for landscape elevated walkway	✓	✓	✓	✓
Demolition of existing structure and cottage	✓			
Construction of project signboard	✓			
Pre-drilling works and trial pit excavation	✓	✓	✓	
Drainage works	✓			
Temporary road diversion at Sa Po Road		$\checkmark$	$\checkmark$	
Demolition of existing structure at SB-01		$\checkmark$		
Pre-drilling work for S14 and KS10		$\checkmark$		
Drainage works for Pedestrian Street No.1 & No.2		$\checkmark$	$\checkmark$	
Drainage works for Crowd Dispersal Route		$\checkmark$	$\checkmark$	
Instrumentation installation at SB-01			$\checkmark$	$\checkmark$
Pre-drilling work for S14			$\checkmark$	$\checkmark$
Removal existing piles at Road D1			$\checkmark$	$\checkmark$
Rising main construction			$\checkmark$	$\checkmark$
Trial pit excavation				$\checkmark$
Advance works for traffic diversion at Sa Po Road				$\checkmark$
Drainage works for Pedestrian Street No.1, No,2 & No.3				✓
Construction of Crowd Dispersal Route				✓

Factors might affect the monitoring results		Reporting Period			
		Mar 2021	Apr 2021	May 2021	
Non-project related construction activities in the adjacent construction sites were observed.	✓	~	~	~	

# Appendix L – Event and Action Plan for noise

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

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

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

Event		Act	tion	
Event	ЕТ	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>	<ol> <li>Check report.</li> <li>Check Contractor's working method.</li> <li>Discuss with ET and Contractor on possible remedial measures.</li> <li>Advise Supervisor /ER on effectiveness of proposed remedial measures.</li> <li>Check implementation of remedial measures.</li> </ol>	<ol> <li>Notify Contractor.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	<ol> <li>Amend working methods.</li> <li>Rectify damage and undertake any necessary replacement.</li> </ol>
Repeated Non-conformity	<ol> <li>Identify Source.</li> <li>Inform IEC and Supervisor /ER.</li> <li>Increase monitoring frequency.</li> <li>Discuss remedial actions with IEC, Supervisor /ER and Contractor.</li> <li>Monitor remedial actions until rectification has been completed.</li> <li>If non-conformity stops, cease additional monitoring.</li> </ol>	method. 3. Discuss with ET and Contractor on possible remedial measures.	<ol> <li>Notify Contractor.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	<ol> <li>Amend working methods.</li> <li>Rectify damage and undertake any necessary replacement.</li> </ol>

Appendix N – Waste Flow Table

#### Name of Department : Civil Engineering and Development Department

	А	ctual Quantitie	es of Inert C&D	Materials Gei	nerated Monthl	у	Actu	al Quantities o	f C&D Wastes	Generated Mo	onthly
Month	Total Quantity Generated	Borken Concrete (4)	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Import Fill	Metals	Paper / Cardboard Packaging	Plastics (3)	Chemical Waste	Other, e.g. general refuse
	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000m <sup>3</sup> ]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m <sup>3</sup> ]
JAN	0.191597506	0.028739612	0	0	0.162857895	0	0	0	0	0	0.007013333
FEB	1.108290924	0.166243555	0	0	0.942047368	0	0	0	0	0	0.011833333
MAR	0.416297177	0.062444545	0	0	0.353852632	0	0	0	0	0	0.017520000
APR	0.020390091	0.003058512	0	0	0.017331579	0	0	0	0	0	0.002420000
MAY	0.230390073	0.034558494	0	0	0.195831579	0	0	0	0	0	0.189360000
JUNE	1.299331155	0.194899576	0	0	1.104431579	0	0	0	0	0	0.006900000
SUB- TOTAL	3.266296926	0.489944294	0	0	2.776352632	0	0	0	0	0	0.235046666
JULY											
AUG											
SEPT											
OCT											
NOV											
DEC											
TOTAL	3.266296926	0.489944294	0	0	2.776352632	0	0	0	0	0	0.235046666

#### MONTHLY SUMMARY WASTE FLOW TABLE FOR \_\_\_\_\_\_ 2021 (YEAR)

	Forecast of Total Quantities of C&D materials to be Generated from the Contracts *									
Total	Borken	Reused in the	Reused in	Disposal as	Import Fill	Metals	Paper /	Plastics (3)	Chemical	Other, e.g.
[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> ]
	3.2			33.652						

Notes : (1) The performance targets are given in PS Clause 25.24.

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the site.

(3) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material.

\* (4) The summary table shall be submitted to *the Project Manager/Supervisor* monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.24

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

# Table 1.1 Implementation Schedule for Air Quality Measures

EIA Ref	Environmental Protection Measures / Mitigation	Location / Timing	Implementation	Im	plem Sta	entat ges*	ion	Relevant Legislation and
	Measures	<b>J</b>	Agent	Des	С	0	Dec	Guidelines
S3.2	8 times daily watering of the work site with active dust emitting activities.	Work site / during construction	Contractor		√			EIAO-TM
\$3.2	<ul> <li>Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimize cumulative dust impacts.</li> <li>Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.</li> <li>Misting for the dusty material should be carried out before being loaded into the vehicle.</li> <li>Any vehicle with an open load carrying area should have properly fitted side and tail boards.</li> <li>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.</li> <li>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.</li> <li>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. Onsite unpaved roads should be compacted and kept free of lose materials.</li> <li>Vehicle washing facilities should be provided at every vehicle exit point.</li> <li>The area where vehicle washing takes place and the</li> </ul>		Contractor					EIAO-TM & Air Quality Objective

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Im	plem Stag	entati ges*	ion	Relevant Legislation and Guidelines
		C C		Des	С	ο	Dec	
	section of the road between the washing facilities and							
	the exit point should be paved with concrete,							
	bituminous materials or hardcores.							
	- 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.							
	- 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.							
	- Every vehicle should be washed to remove any dusty							
	materials from its body and wheels before leaving							
	the construction sites.							

#### Table 1.2 Implementation Schedule for Noise Measures

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Im	plem Sta	entat ges*	ion	Relevant Legislation and
		g	Agent	Des	С	0	Dec	Guidelines
S3.3	Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump.	Work Sites / Construction Period	Contractor		√			EIAO-TM, NCO
S3.3	<ul> <li>Good Site Practice: <ul> <li>Only well-maintained plant should be operated onsite and plant should be serviced regularly during the construction program.</li> <li>Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.</li> <li>Mobile plant, if any, should be sited as far away from NSRs as possible.</li> <li>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.</li> <li>Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.</li> <li>Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul> </li> </ul>	Work Sites / Construction Period	Contractor		✓			EIAO-TM, NCO
S3.3	- Scheduling of Construction Works during School Examination Period.	Construction site near to school / Examination Period	Contractor		$\checkmark$			

### Table 1.3 Implementation Schedule for Water Quality Measures

EIA Ref	Environmental Protection Measures / Mitigation	Location / Timing	ning Implementation	Im	plem Sta	entat ges*	ion	Relevant Legislation and
	Measures	g	Agent	Des	С	0	Dec	Guidelines
S3.4	<b>Operational Phase</b> A surface water drainage system should be provided to collect road runoff. It is recommended that the road drainage should be provided with adequately designed silt trap and oil interceptors, as necessary. The design of the operational stage mitigation measures for the road works shall take into account the guidelines published in ProPECC PN 5/93 "Drainage Plans subject to Comment by the EPD".	Project site / during design and operational stages	CEDD	✓		1		EIAO-TM, WPCO, ProPECC PN 5/93
S3.4	Construction Phase         Construction Runoff         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: <ul> <li>use of sediment traps</li> <li>adequate maintenance of drainage systems to prevent flooding and overflow.</li> </ul>	Work Sites / during construction	Contractor		~			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	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.	Work Sites / during construction	Contractor		√ 			EIAO-TM, WPCO, ProPECC PN 1/94

EIA Ref	Environmental Protection Measures / Mitigation	Location / Timing	Implementation	In	plem Stag	entat ges*	ion	Relevant Legislation and
	Measures	g	Agent	Des	С	ο	Dec	Guidelines
S3.4	Ideally, 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.	Work Sites / during construction	Contractor		✓ 			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	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.	Work Sites / during construction	Contractor		✓			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m <sup>3</sup> 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.	Work Sites / during construction	Contractor		√			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	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.	Work Sites / during construction	Contractor		√			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	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 are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events.	Work Sites / during construction	Contractor		√			EIAO-TM, WPCO, ProPECC PN 1/94

EIA Ref	Environmental Protection Measures / Mitigation	Location / Timing	Implementation	Im	nplem Sta	entat ges*	ion	Relevant Legislation and
	Measures	g	Agent	Des	С	0	Dec	Guidelines
S3.4	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.	Work Sites / during construction	Contractor		1			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	Wheel Washing Water 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.	Work Sites / during construction	Contractor		✓ 			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	Drainage It is recommended that 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.	Work Sites / during construction	Contractor		1			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	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.	Work Sites / during construction	Contractor		✓ 			EIAO-TM, WPCO, ProPECC PN 1/94

EIA Ref	Environmental Protection Measures / Mitigation	Location / Timing	Implementation	Im	plem Sta	entati ges*	ion	Relevant Legislation and
	Measures	Ū	Agent	Des	С	0	Dec	Guidelines
S3.4	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.	Work Sites / during construction	Contractor		√			EIAO-TM, WPCO, ProPECC PN 1/94, WDO
S3.4	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.	Work Sites / during construction	Contractor		✓ 			EIAO-TM, WPCO
S3.4	Stormwater Discharges Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes.	Work Sites / during construction	Contractor		√			EIAO-TM, WPCO, TM-DSS
S3.4	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 is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur.	Work Sites / during construction	Contractor		$\checkmark$			EIAO-TM, WPCO, WDO

EIA Ref	Environmental Protection Measures / Mitigation	Location / Timing	Location / Timing	In	plem Sta	entat ges*	Relevant Legislation and	
	Measures		Agent	Des	С	0	Dec	Guidelines
S3.5	<ul> <li>Good Site Practices</li> <li>It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations for good site practices during construction activities include: <ul> <li>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.</li> <li>Training of site personnel in proper waste management and chemical waste handling procedures</li> <li>Provision of sufficient waste disposal points and regular collection for disposal</li> <li>Appropriate measures to minimise windblown litter and dust during transportation of wastes in enclosed containers.</li> <li>A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites)</li> </ul> </li> </ul>	Work Sites / during construction	Contractor					EIAO-TM, WDO
S3.5	<ul> <li>Waste Reduction Measures</li> <li>Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices.</li> <li>Recommendations to achieve waste reduction include: <ul> <li>Sort C&amp;D waste from demolition of the remaining structures to recover recyclable portions such as metals.</li> <li>Segregation and storage of different types of waste in</li> </ul> </li> </ul>	Work Sites / during construction	Contractor					EIAO-TM, WDO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	ming Implementation Agent	Implementation Stages*				Relevant Legislation and
				Des	С	0	Dec	Guidelines
	<ul> <li>different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.</li> <li>Encourage collection of aluminium 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>Any unused chemicals or those with remaining functional capacity should be recycled.</li> <li>Proper storage and site practices to minimise the potential for damage or contamination of construction materials.</li> </ul>							
S3.5	<ul> <li>Construction and Demolition Materials</li> <li>Mitigation measures and good site practices should be incorporated in the contract document to control potential environmental impact from handling and transportation of C&amp;D material. The mitigation measures include: <ul> <li>Where it is unavoidable to have transient stockpiles of C&amp;D material within the Project work site pending collection for disposal, the transient stockpiles shall be located away from waterfront or storm drains as far as possible.</li> <li>Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric.</li> <li>Skip hoist for material transport should be totally enclosed by impervious sheeting.</li> <li>Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site.</li> <li>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,</li> </ul> </li> </ul>	Work sites / during construction	Contractor and Independent Environmental Checker					ETWB TCW No. 33/2002, 31/2004, 19/2005

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and	
				Des	С	0	Dec	Guidelines
	<ul> <li>bituminous materials or hardcores.</li> <li>The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle.</li> <li>All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.</li> <li>The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading.</li> <li>When delivering inert C&amp;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&amp;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 and Demolition Materials"</li> </ul>			Des			Dec	Guidelines
	should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for auditing the results of the system.							
S3.5	Chemical Waste After use, chemical wastes (for example, cleaning fluids,	Work Sites / during construction	Contractor					Waste Disposal (Chemical Waste) (General)
	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							Regulation Code of Practice or the Packaging Labelling and

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and
		3		Des	С	0	Dec	Guidelines
	CWTF or other licensed facility, in accordance with the <i>Waste Disposal (Chemical Waste) (General) Regulation</i> .							Storage of Chemical Wastes
S3.5	General Refuse	Work Sites / during construction	Contractor					Waste Disposal Ordinance
	General refuse should be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Effective collection and storage methods (including enclosed and covered area) of site wastes would be required to prevent waste materials from being blown around by wind, wastewater discharge by flushing or leaching into the marine environment, or creating odour nuisance or pest and vermin problem.							Water Pollution Control Ordinance

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and	
				Des	С	ο	Dec	Guidelines
S3.8.12	<ul> <li>Construction Phase</li> <li>All existing trees should be carefully protected during construction.</li> <li>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.</li> <li>Control of night-time lighting.</li> <li>Erection of decorative screen hoarding.</li> </ul>	Works area / During Construction Phase	Contractor	✓ 	1			EIAO-TM
S3.8.13	<ul> <li>Operation Phase</li> <li>Compensatory tree planting should be incorporated into the proposed projects where trees are affected.</li> <li>Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities.</li> <li>Sensitive streetscape design should be incorporated along all new roads to reflect the new urban development in Kai Tak.</li> <li>Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips and central dividers to enhance the townscape quality, where space is available.</li> <li>Aesthetically pleasing design as regard to the form, material and finishes should be incorporated to all buildings, engineering structures and associated infrastructure facilities.</li> </ul>	Project area / During Design stage and Operation Phase	CEDD			✓		EIAO-TM

# Table 1.5 Implementation Schedule for Landscape and Visual Impacts

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

# **Reporting Month: June 2021**

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

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

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

Complaint Log	Complaint Log for ED/2018/05								
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status					