Our ref: 15-5-2023

15-5-2023 By hand

**Environmental Protection Department** 

**Environmental Assessment Division** 

Metro Assessment Group

Kowloon Section (2)

27th floor, Southorn Centre,

130 Hennessy Road,

Wan Chai, Hong Kong

(Attn: Mr. TANG Ho Him, Matthew)

Dear Mr. TANG,

#### Contract No. EDO 15/2018

Environmental Monitoring Works for Contract No. ED/2018/01 – Kai Tak Development – Stage 4 infrastructure at the Former Runway and South Apron

Submission of Monthly EM&A Report for April 2023

I refer to the Environment Permit (EP) No. EP-337/2009 and EP-445/2013/B 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 April 2023, which has been verified by the IEC for your reference.

Thank you very much for your attention and please feel free to contact Mr. Lee at 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** 



Ref.: CEDKTDS4EM00\_0\_0289L.23

15 May 2023

By Post and Email

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

Attention: Mr. Clive Cheng

Dear Sir,

Re: Contract No. ED/2018/01 - Kai Tak Development Stage 4 Infrastructure at the Former Runway and South Apron

### **Monthly EM&A Report for April 2023**

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for April 2023 (Version 1.1) certified by the ET Leader and provided to us via email on 12 May 2023.

Please be advised that we have no further comment on the captioned Monthly EM&A Report in accordance with Condition 3.3 of EP-337/2009 and Condition 3.2 of EP-445/2013/B. The ET Leader is reminded that it is the ET's responsibility to carry out the complaint investigation in accordance with the EM&A Manuals.

Thank you for your attention. Please do not hesitate to contact the undersigned should you have any queries.

Yours faithfully, For and on behalf of Ramboll Hong Kong Limited

Y H Hui

Independent Environmental Checker

CEDD C.C.

Attn.: Mr. Jason Wong

Fax: 2739 0076

Ka Shing

Attn.: Mr. Chan Pang

By Email

Penta-Ocean

Attn.: Mr. Daniel Ho

Fax: 2572 4080

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# **Environmental Monitoring and Audit Report** for

**Contract No. ED/2018/01 –** 

# Kai Tak Development – Stage 4 infrastructure at the former runway and south apron

Contract No.: EDO 15/2018

April 2023

(Version 1.1)

Certified By:

(Environmental Team Leader)

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# **EXECUTIVE SUMMARY**

This is the 40<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 April 2023.

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

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

Table I Non-compliance Record in the Reporting Month

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

#### Complaint log

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

Table II Summary of complaints in the Reporting Month

Date of complaint	Description of	Investigation / Recommendations /	Close-out
received	complaint	Action taken	date / Status
NA	NA	NA	NA

#### Notifications of summons and successful prosecutions

6) 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.

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

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

## Report changes

7) There was no reporting change in the reporting month.

# **Key construction works in the reporting month**

- 8) Major construction activities undertake during the reporting month included:
  - Construction of road works (e.g. kerb, central median, etc.)
  - Construction of RC structure for Lift LT-1 and LT-2
  - Installation of precast parapet for North Approach Ramp, Bridge 03 and South Approach Ramp
  - Watermains diversion at Lift LT-4;
  - Construction of profile barrier for North Depressed Road
  - Modification works at Shing Kai Road

- Construction of central median & profile barrier, installation of noise absorptive panel and E&M works for Underpass 03
- Laying of stormwater drainage pipes/ sewer pipes/ watermains
- Construction of remaining works for Noise Barrier
- Installation of cladding and glass balustrade for ELD
- Construction of Seawater Intake Box Culvert
- Excavation for construction of Pumping Stations
- Piling works for Observation Deck
- Rising main laying works

# **Future key issues**

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

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

Tuote 17 Summary of future ney issues and potential impact in t	
Future key issues in the coming month	Potential impact
Construction of manholes and chambers at Shing Kai Road and the at-grade road near North Approach Ramp, NOR, South Depressed Road, Lift LT-4 and Noise Barrier;	Noise and Air Quality, Chemical and Waste Management
E&M works for CLP Sub-station	Noise and Air Quality, Landscape and Visual
Construction of road furniture and bituminous paving work at the at-grade road near NAR, NAR, Bridge 03, SAR and NDR;	Noise and Air Quality, Chemical and Waste Management
Construction of Outfall	Noise and Air Quality, Chemical and Waste Management
Piling works at Observation Deck	Noise and Air Quality, Chemical and Waste Management
Watermain connection and pressure test for watermains at Shing Kai Road, NAR, Bridge 03, SAR and SDR;	Noise, Air and Water Quality
E&M works for Underpass 03;	Noise and Air Quality, Chemical and Waste Management
Construction of profile barrier, installation of precast parapet and movement joints and road paving works for Bridge 03	Noise and Air Quality, Chemical and Waste Management
Excavation for construction of Toilet cum Changing Room	Noise and Air Quality, Chemical and Waste Management
Watermains diversion near Lift LT-4 and T&C the lift cart for Lift LT-4;	Noise, Air and Water Quality
Construction of Seawater Intake Box Culvert;	Noise, Air and Water Quality
Construction of RC structure for Lift LT-1 & LT-2;	Noise, Air and Water Quality
Waterproof work, painting work and pipe work for ELD;	Noise, Air and Water Quality
Construction of remaining works for Noise Barrier	Noise and Air Quality, Chemical and Waste Management
Construction of Observation Deck;	Noise, Air and Water Quality
Diversion/ connection works (involving confined space) of DCS Seawater Intake Box Culvert;	Noise, Air and Water Quality

Future key issues in the coming month	Potential impact	
Rising main laying works	Noise, Air and Water Quality	
Laying of stormwater drainage pipes I sewer pipes I watermains and construction of associated manholes at Road L12d	Noise, Air and Water Quality	
Construction of Harbour Steps	Noise and Air Quality, Chemical and Waste Management	

# 1. INTRODUCTION

#### **Project Background**

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern 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/2018/01 Kai Tak Development stage 4 infrastructure at the former runway and south apron (The Project), comprises mainly the design and construction of a dual two- lane Road D3 (Metro Park Section), a single 2-lane Road L12d, a salt water pumping station, a sewage pumping station, landscaped deck and promenade above and adjoining Road D3 (Metro Park Section) respectively, some remaining road works at Road L14, noise barrier at Road D3A, and other associated works at the former runway and south apron. The proposed works are shown in Figure 1 and Figure 2. During the course of the Contract No. ED/2018/01, there may be modification of noise barriers in association with the construction of footbridges connecting to the landscaped deck of Road D3A by developers of adjacent lands (Figure 3). The proposed works and site boundary are shown in Figure 4.
- 1.3 The new road connecting Shing Fung Road & Shing Kai Road has been open for public vehicles since 31 December 2022. Detailed location referring to Figure 5.
- 1.4 Civil Engineering and Development Department (CEDD) had completed an Environmental Impact Assessment (EIA) and is the Permit Holder.
- 1.5 The construction work under ED/2018/01 comprises the EM&A Manuals (EIA Register Nos. AEIAR-130/2009 for Kai Tak Development and EIA Register Nos. AEIAR-170/2013 for Roads D3A and D4A) and Environmental Permit (EP) Nos. EP-337/2009 and Variation to the EP (VEP) No. EP-445/2013/B.
- 1.6 Air quality and noise monitoring has been proposed in the EM&A Manual with EIA Register Nos. AEIAR-130/2009 for Kai Tak Development while no air quality and noise monitoring are proposed in EM&A Manual with EIA Register Nos. AEIAR-170/2013 for Roads D3A and D4A.

# **Project Organization**

1.7 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.

Table 1.1 Contact Information of Key Personnel

Party	Role	Contact Person	Position	Phone No.	Fax No.
Civil Engineering and Development	Project	Mr. Jason Wong	Senior Engineer	3579 2453	2739 0076
Development Department (CEDD)	Proponent	Ms. Chan Ka Yan	Engineer	3579 2458	2739 0076
AECOM Asia Co. Ltd. (AECOM)	Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual)	Mr. Clive Cheng	CRE	3911 4201	3911 4288
Ramboll Hong Kong Limited (Ramboll)	Independent Environmental Checker (IEC)	Mr. Y H Hui	IEC	3465 2850	3465 2899
Ka Shing Management Consultant Limited (Ka Shing)	Environmental Team (ET)	Mr. Chan Pang	ET Leader	6082 2973	2120 7752
Penta-Ocean Construction Co., Ltd. (Penta-Ocean)	Contractor	Mr. Tony Tang	Environmental Officer	9433 2628	3465 8898

# **Works Area and Construction Programme**

1.8 The construction works commenced on 20 January 2020. The construction programme of the Project is given in Appendix B.

#### Construction works undertaken during reporting month

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

Table 1.2 Major activities of the Project during reporting month

Construction of road works (e.g. kerb, central	Construction of RC structure for Lift LT-1 and	
median, etc.)	LT-2	
Installation of precast parapet for NAR, Bridge	Watermains diversion at Lift LT-4	
03 and SAR	watermams diversion at Ent E1-4	
Construction of profile barrier for NDR	Modification works at Shing Kai Road	
Construction of central median & profile barrier,	I aving of stormayyeten ducing as nines/ sayyen	
installation of noise absorptive panel and E&M	Laying of stormwater drainage pipes/ sewer pipes/ watermains	
works for Underpass 03	pipes/ watermains	
Construction of remaining works for Noise	Installation of cladding and glass balustrade for	
Barrier	ELD	
Construction of Seawater Intake Box Culvert	Excavation for construction of Pumping Stations	
Piling works for Observation Deck	Rising main laying works	

# **Submission Status under the Environmental Permits**

1.10 The status of required submission under Environmental Permit (EP) conditions under EP-337/2009 and Variation to the EP (VEP) No. EP-445/2013/B are summarized in Table 1.3.

Table 1.3 Summary of Status of Required Submission of EPs

EP Condition EP-337/2009	EP Condition EP-445/2013/B	Submission	Submission Date
Condition 1.11	Condition 1.12	Notification of Commencement Date of Construction of the Project	6 Jan 2020
Condition 2.3	Condition 2.3	Management Organization of Main Construction Companies	9 Sep 2019
Condition 2.3	Condition 2.3	Updated Management Organization of Main Construction Companies	17 Aug 2021
Condition 2.4	Condition 2.4	Design Drawings	6 Jan 2020
Condition 2.11	Condition 2.5	Landscape Mitigation Plans	13 Nov 2020
Condition 2.1	Condition 2.5	Landscape Mitigation Plans (Revision 2)	18 May 2021
NA	Condition 2.9	Detailed Design Plan of Traffic Noise Mitigation Measures	9 Dec 2022
Condition 3.2	NA	Baseline Monitoring Report	2 Jan 2020
Condition 3.2	NA	Revised Baseline Monitoring Report	28 Mar 2020
Condition 3.3	ndition 3.3 Condition 3.2 Monthly EM&A Report (March		20 Apr 2023

EP Condition EP-337/2009	EP Condition EP-445/2013/B	Submission	Submission Date
		2023)	

# 2. AIR QUALITY MONITORING

#### **Monitoring Requirements**

2.1 In accordance with EM&A Manuals (EIA Register Nos. 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 says 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 Three designated monitoring stations were selected for air quality monitoring programme. Impact air quality monitoring was conducted at three air quality monitoring stations in the reporting month. Table 2.1 describes the air quality monitoring locations, which are also depicted in Figure 6.

Table 2.1 Locations of Air Quality Monitoring Stations

Air Quality Monitoring Locations for the Project	Location of Measurement
AM3 - Sky Tower	Podium floor near T7
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	Ground
AM7 – Hong Kong Children's Hospital	Rooftop

- 2.3 Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A) while 1-hr TSP monitoring at AM4(A) were conducted on the ground floor with orienting to the Project site.
- 2.4 ET approached the potential sensitive receivers for monitoring station relocation since May 2022. ET conducted site visit in nearby area and found that there was no property management company in most of the nearby premises and could not approach the residents regarding the environmental monitoring. No permission can be applied for environmental monitoring.
- 2.5 For those premises have property management company, ET sent the proposal to owner /

property management company and explained the purpose of environmental monitoring (refer to Appendix C – Apply permission for Environmental Monitoring). Figure 7 shows the proposed alternative monitoring locations. No permission of setup and entry is received until the reporting month.

2.6 Summary of the status of for proposed alternative monitoring locations for AM4(A) are given in Table 2.2.

<u>Table 2.2 Proposed alternative monitoring locations for AM4(A)</u>

Table 2.2 I roposed differentive monitoring locallo	713 JOI 711/17(71)
Proposed alternative monitoring locations for M11	Status upto reporting month
A1 - The Lok Sin Tong Modular Social Housing Scheme	Rejected application on 13 Oct 2022
A2 - Freder Centre	No reply from building management office
A3 - New Port Centre	No reply from building management office
A4 - 112 - 138 To Kwa Wan Road	No property management company and could not apply the permission.
A5 - 2 - 26 Hok Ling Street	No property management company and could not apply the permission.
A6 - 1 - 27 Hok Ling Street	No property management company and could not apply the permission.
A7 - 2 - 28 Tsun Fat Street	No property management company and could not apply the permission.
A8 - 1 - 27 Tsun Fat Street	No property management company and could not apply the permission.
A9 – 2 - 28 Yin On Street	No property management company and could not apply the permission.
A10 – 1 – 27 Yin On Street	No property management company and could not apply the permission.
A11 – 2 – 28 Shim Luen Street	No property management company and could not apply the permission.
A12 - 1 - 27 Shim Luen Street	No property management company and could not apply the permission.
A13 - 2 - 28 Hung Wan Street	No property management company and could not apply the permission.
A14 - 1 - 27 Hung Wan Street	No property management company and could not apply the permission.
A15 - 2 - 28 Pang Ching Street	No property management company and could not apply the permission.
A16 - 1 - 27 Pang Ching Street	No property management company and could not apply the permission.
A17 - 2 - 28 Ying Yeung Street	No property management company and could not apply the permission.
A18 - 1 - 27 Ying Yeung Street	No property management company and could not apply the permission.
A19 - 2 - 28 Lun Cheung Street	No property management company and could not apply the permission.
A20 - 1 - 27 Lun Cheung Street	No property management company and could
·	

Proposed alternative monitoring locations for M11	Status upto reporting month
	not apply the permission.
A21 - 2 - 28 Luk Ming Street	No property management company and could not apply the permission.
A22 - 1 - 27 Luk Ming Street	No property management company and could not apply the permission.
A23 - 2 - 28 Fung Yi Street	No property management company and could not apply the permission.

2.7 No update for the approval of monitoring relocation in the reporting month and ET will resume the impact monitoring once the alternative monitoring location for AM4(A) are confirmed.

# **Monitoring Parameters, Frequency and Duration**

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

Table 2.3 Air Quality Monitoring Parameters, Frequency and Duration

Air Monitoring Station	Location for Measurement	Parameter	Duration	Frequency
AM3 - Sky Tower	Podium floor near T7			
AM4(A) - The Hong Kong Society for the Blind's Factory cum	Ground	- 24-hour average TSP	- 24 hours - 1 hour	- Once every 6 days
Sheltered Workshop  AM7 - Hong Kong Children's Hospital	Rooftop	average TSP	1 11001	every 6 days

- 2.9 The monitoring schedule for reporting month and next month is presented in Appendix D
- 2.10 Photographic records of the impact monitoring setup are shown in Appendix E.

#### **Monitoring Equipment**

2.11 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 2.4 summarizes the equipment to be used in the air quality monitoring.

Table 2.4 Air Quality Monitoring Equipment

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

- 2.12 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).
- 2.13 Calibration certificates, catalogue of equipment are given in Appendix F.

# Monitoring Methodology and QA/QC Procedure

#### 24-hour TSP Monitoring

#### Operating/Analytical Procedures

- 2.14 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.
- 2.15 Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m<sup>3</sup>/min. and 1.7 m<sup>3</sup>/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.16 For TSP sampling, Glass Fiber Filter Media 8" x 10" have a collection efficiency of > 99 % for particles of 0.3 μm diameter were used.
- 2.17 The power supply was checked to ensure the sampler worked properly and then placed any filter media at the designated air monitoring station.
- 2.18 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.
- 2.19 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.
- 2.20 The shelter lid was closed and secured with the aluminium strip.
- 2.21 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).
- 2.22 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

2.23 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

- 2.24 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

- 2.25 The following maintenance/calibration are required for the direct dust meters:
  - To validity the accuracy of dust meter, compare the results measured by dust meter and HVS by direct reading method every 12 months throughout all stages of the air quality monitoring.

#### **Wind Data Monitoring**

- 2.26 Wind Anemometer was installed at the roof-top of AM7 Hong Kong Children's Hospital with 10m above ground and clear of constructions or turbulence caused by the buildings.
- 2.27 The wind data was captured by a data logger and the data was downloaded at least once per month for analysis.

- 2.28 The wind data monitoring equipment will be re-calibrated at least once every six months.
- 2.29 Wind direction is divided into 16 sectors of 22.5 degrees each.
- 2.30 Details of weather information during the monitoring period are shown in Appendix G.

#### **Action and Limit Levels**

2.31 The Action and Limit Levels of 24-hour average TSP and 1-hour average TSP are summarized in Table 2.5 and Table 2.6 respectively.

Table 2.5 Action and Limit Levels of 24-hour average TSP for Construction Dust Monitoring

Parameter	Air Monitoring Station	Action Level, μg/m <sup>3</sup>	Limit Level, µg/m³
	AM3	182	260
24-hour average TSP	AM4(A)	187	260
	AM7	181	260

Table 2.6 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>
	AM3	297	500
1-hour average TSP	AM4(A)	326	500
_	AM7	315	500

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

- 2.32 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 2.7 and Table 2.8 respectively.
- 2.33 Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A) while 1-hr TSP monitoring at AM4(A) were conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for AM4(A) is confirmed.

<u>Table 2.7 Summary of 24-hour average TSP Monitoring Data during the reporting month</u>

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/m³
AM3	68	44 – 113	182	260
AM4(A)	/	/ – /	187	260
AM7	65	53 - 87	181	260

Table 2.8 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, μg/m <sup>3</sup>	Limit Level, μg/m <sup>3</sup>
AM3	58	34 – 111	297	500
AM4(A)	67	43 – 118	326	500
AM7	55	45 - 83	315	500

- 2.34 There was no Action and Limit Level exceedance of 24-hour average TSP and 1-hour average TSP levels recorded during the reporting month.
- 2.35 Graphical presentation and detailed monitoring results of 24-hour average TSP and 1-hour average TSP levels are shown in Appendix H and Appendix I respectively.
- 2.36 The Event and Action Plan is provided in Appendix J.
- 2.37 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

# 3. NOISE MONITORING

#### **Monitoring Requirements**

- 3.1 In accordance with EM&A Manuals (EIA Register Nos. AEIAR-130/2009), impact noise monitoring shall be carried out during the construction phase of the Project.
- 3.2 Regular monitoring,  $L_{Aeq, 30\text{-minute}}$ , for each station will be on a weekly basis and conduct one set of measurements between 0700 1900 on normal weekdays.
- 3.3 If construction works are extended to include works during 1900 0700 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 8.

Table 3.1 Locations of Noise Monitoring Stations

Noise Monitoring Locations for the Project	Location of Measurement
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	Ground (Façade)
M12 - Hong Kong Children's Hospital	Rooftop (Façade)

- 3.5 Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022.
- 3.6 ET approached the potential sensitive receivers for monitoring station relocation since May 2022. ET conducted site visit in nearby area and found that there was no property management company in most of the nearby premises and could not approach the residents regarding the environmental monitoring. No permission can be applied for environmental monitoring.

- 3.7 For those premises have property management company, ET sent the proposal to owner / property management company and explained the purpose of environmental monitoring (refer to Appendix C Apply permission for Environmental Monitoring). Figure 9 shows the proposed alternative monitoring locations. No permission of setup and entry is received until the reporting month.
- 3.8 Summary of the status of for proposed alternative monitoring locations for M11 are given in Table 3.2.

Table 3.2 Proposed alternative monitoring locations for M11

Table 5.2.1 roposed diffractive monitoring locations for M11			
Proposed alternative monitoring locations for M11	Status upto reporting month		
A1 - The Lok Sin Tong Modular Social Housing Scheme	Rejected application on 13 Oct 2022		
A2 - Freder Centre	No reply from building management office		
A3 - New Port Centre	No reply from building management office		
A4 - 112 - 138 To Kwa Wan Road	No property management company and could not apply the permission.		
A5 - 2 - 26 Hok Ling Street	No property management company and could not apply the permission.		
A6 - 1 - 27 Hok Ling Street	No property management company and could not apply the permission.		
A7 - 2 - 28 Tsun Fat Street	No property management company and could not apply the permission.		
A8 - 1 - 27 Tsun Fat Street	No property management company and could not apply the permission.		
A9 – 2 - 28 Yin On Street	No property management company and could not apply the permission.		
A10 – 1 – 27 Yin On Street	No property management company and could not apply the permission.		
A11 – 2 – 28 Shim Luen Street	No property management company and could not apply the permission.		
A12 - 1 - 27 Shim Luen Street	No property management company and could not apply the permission.		
A13 - 2 - 28 Hung Wan Street	No property management company and could not apply the permission.		
A14 - 1 - 27 Hung Wan Street	No property management company and could not apply the permission.		
A15 - 2 - 28 Pang Ching Street	No property management company and could not apply the permission.		
A16 - 1 - 27 Pang Ching Street	No property management company and could not apply the permission.		
A17 - 2 - 28 Ying Yeung Street	No property management company and could not apply the permission.		
A18 - 1 - 27 Ying Yeung Street	No property management company and could not apply the permission.		
A19 - 2 - 28 Lun Cheung Street	No property management company and could		

Proposed alternative monitoring locations for M11	Status upto reporting month
	not apply the permission.
A20 - 1 - 27 Lun Cheung Street	No property management company and could not apply the permission.
A21 - 2 - 28 Luk Ming Street	No property management company and could not apply the permission.
A22 - 1 - 27 Luk Ming Street	No property management company and could not apply the permission.
A23 - 2 - 28 Fung Yi Street	No property management company and could not apply the permission.

3.9 No update for the approval of monitoring relocation in the reporting month and ET will resume the impact monitoring once the alternative monitoring location for M11 are confirmed.

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

3.10 The noise monitoring locations and monitoring frequency are listed in Table 3.3.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Noise Monitoring Station	Location for Measurement	Parameter	Frequency and Duration
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	Ground (Façade)	$L_{Aeq}, L_{A10}$ and $L_{A90}$	30 - minutes measurement at each monitoring station between 0700 – 1900 hrs on normal weekdays
M12 - Hong Kong Children's Hospital	Rooftop (Façade)		(Monday to Saturday) at frequency of once per week.

<sup>\*</sup> Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022.

- 3.11 The monitoring schedule for reporting month and next month is presented in Appendix D.
- 3.12 Photographic records of the monitoring setup are shown in Appendix E.

#### **Monitoring Equipment**

3.13 As referred to in the Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO), sound level meters in compliance with the IEC 61672-1 (Type 1) standard [this

standard replaced the International Electrotechnical Commission Publications 60651:1979 (Type 1) and 60804:1985 (Type 1)] were used for noise monitoring. Table 3.4 summarizes the equipment to be used in the noise monitoring.

Table 3.4 Noise Monitoring Equipment

Equipment Model		Quantity
Sound Level Meter	RION NL52	2
Sound Level Calibrator	RION NC 74	2
Air Flowmeter	TSI TA440 Air Velocity	2

3.14 Calibration certificates, catalogue of equipment are given in Appendix K.

#### Monitoring Methodology and QA/QC Procedure

- 3.15 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.
- 3.16 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.
- 3.17 Turned on the sound level meter and check the battery, if too low, change new ones.
- 3.18 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.
- 3.19 Noise level was recorded.
- 3.20 Recorded any activities that may generate noise during measurement period.

#### **Maintenance and Calibration**

3.21 The microphone head of the sound level meter and calibrator was cleaned with a soft cloth at

quarterly intervals.

- 3.22 The sound level meter and sound calibrator were calibrated annually.
- 3.23 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**

3.24 The Baseline Noise Levels and Action and Limit Levels for construction noise is presented in Table 3.5.

Table 3.5 Baseline Noise Level and Action and Limit Levels for Construction Noise Monitoring

Time Period	Noise Monitoring Station	Baseline Noise Levels, dB (A)	Action Level	Limit Level ^
0700 – 1900 on	M11	68.3	When one documented	75 dB(A)
normal weekdays	M12	61.9	complaint is received.	75 dD(11)

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**

- 3.25 Impact noise monitoring results at the designed noise monitoring stations are summarized in Table 3.6 respectively.
- 3.26 Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 30-min noise monitoring at M11 were conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for M11 is confirmed.

Table 3.6 Summary of Noise Monitoring Data during the reporting month

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 ^
M11	71.7	69.7 – 73.7	When one documented	75
M12	64.2	63.3 – 64.9	complaint is received	dB(A)

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

- 3.27 There were no action level exceedance of noise monitoring and limit level exceedance of  $L_{\text{Aeq}}$ ,  $_{30\text{min}}$  recorded during the reporting month.
- 3.28 Graphical presentation and detailed monitoring results are shown in Appendix L.
- 3.29 The Event and Action Plan is provided in Appendix J.
- 3.30 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may 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 Nos. AEIAR-130/2009 for Kai Tak Development (The EIA Report). The EM&A data was compared with the EIA predictions as summarized in Table 4.1 to Table 4.3.

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

	ASR No. in EIA report	Predicted Cumulative Maximum 24-hour average TSP concentration		Measured 24-hr average TSP in	
Air Monitoring Station		Scenario 1 (Mid 2009 to Mid 2013),	Scenario 2 (Mid 2013 to Late 2016),	Reporting Month (April 2023) µg/m <sup>3</sup>	
		$\mu g/m^3$	$\mu g/m^3$		
AM3 - Sky Tower	A40^	106	138	44 – 113	
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	A43^	123	195	/-/	
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	53 – 87	

Note:

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

Air Monitoring Station	ASR No. in EIA report	Predicted Cumulative Maximum 1-hour average TSP concentration  Scenario 1 Scenario 2 (Mid 2009 to (Mid 2013 to Mid 2013), Late 2016),  µg/m³ µg/m³		Measured 1-hr average TSP in Reporting Month (April 2023) µg/m <sup>3</sup>
AM3 - Sky Tower	A40	217^	247^	34 – 111
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	A43	283^	409^	43 – 118
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	45 – 83

Note:

 $<sup>^{\</sup>wedge}$  Prediction results are given in the Table 3.13 of the EIA report EIA Register Nos. AEIAR-130/2009 for Kai Tak Development.

<sup>\*</sup> Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A) because of the assess limitation in the reporting month.

*Table 4.3 Comparison of Noise Monitoring Data with EIA predictions* 

Noise Monitoring Station	NSR No. in EIA report	Predicted Mitigated Construction Noise Levels during Normal Daytime Working Hour LAeq, 30min, dB(A)	Measured Noise Level in Reporting Month (April 2023) L <sub>Aeq, 30min</sub> , dB(A)
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	N18	50 – 76*	69.7 – 73.7
M12 - Hong Kong Children's Hospital	PN83, PN84, PN84A	NA	63.3 – 64.9

Note:

- 4.2 24-hour TSP monitoring results at AM3 was recorded higher than the prediction for Scenario 1 (Mid 2009 to Mid 2013) in the EIA Report. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A) because of the assess limitation in the reporting month. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 4.3 No prediction in the EIA Report for 24-hour TSP monitoring results at AM7.
- 4.4 1-hour TSP monitoring results at AM3 and AM4(A) were recorded lower than the prediction in the EIA Report. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the reporting month. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 4.5 No prediction in the EIA Report for 1-hour TSP monitoring results at AM7.
- 4.6 Noise monitoring results at M11 were recorded lower than the prediction in the EIA Report.

<sup>^</sup> Prediction results are given in the Table 3.13 of the EIA report EIA Register Nos. AEIAR-130/2009 for Kai Tak Development.

<sup>\*</sup> Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the reporting month.

<sup>\*</sup> Prediction results are given in the Table 3.20 of the EIA report EIA Register Nos. AEIAR-130/2009 for Kai Tak Development.

<sup>\*</sup>Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. Construction noise monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.

Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. Construction noise monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

4.7 No prediction in the EIA Report for noise monitoring results at M12.

#### 5. LANDSCAPE AND VISUAL MONITORING

5.1 In accordance with EM&A Manuals (EIA Register Nos. AEIAR-130/2009 and AEIAR-170/2013), 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 6, 12, 20, and 27 April 2023 in the reporting month.
- 5.4 The summaries of site audits are attached in Table 5.1.

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

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
06 April 2023	No	NA	NA
12 April 2023	No	NA	NA
20 April 2023	No	NA	NA
27 April 2023	No	NA	NA

- 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 N 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.
- 5.7 Site inspections were conducted on 6, 12, 20, and 27 April 2023 in the reporting month.
- 6.2 The summaries of site audits are attached in Table 6.1.

Table 6.1 Summary of site inspections observations during the reporting month

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
23 March 2023	Observation: Reminder: The U- channel along at-grade road should be regularly inspected and maintained to ensure proper and efficient operation.	Action Taken: Cleaning of U-channel along at-grade road was complected.	Closed-out on 12 April 2022
30 March 2023	Observation: Reminder: Surface run-off from construction site should be discharged into storm drains via adequately designed sand/silt	Action Taken: Surface run-off from construction site have been discharged into storm drains properly.	Closed-out on 12 April 2022

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
	removal facilities such as sand traps, silt traps and sedimentation basins.		
06 April 2023	No	NA	NA
	Observation: Underground water at box culvert (near ELD) should ensure treated by sed-tank before discharging.	Action Taken: Underground water at box culvert (near ELD) have been ensure treated by sed-tank before discharging.	Closed-out on 20 April 2022
12 April 2023	Observation: Haul road at pumping station area should be sprayed with water regularly to reduce dust emission.	Action Taken: Haul road at pumping station area has been sprayed with water regularly to reduce dust emission.	Closed-out on 20 April 2022
	Reminder: Wheel washing of vehicles	Action Taken: Wheel washing of vehicles before leaving the site has been strictly implemented.	Closed-out on 20 April 2022

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
	before leaving the site should be strictly implemented.		
	Observation: NRMM label of drill-rig machine at observation deck area was	Action Taken: The NNRM has been display for the excavator.	Closed-out on 20 April 2022
	Observation: Haul road at pumping station area should be sprayed with water regularly to reduce dust emission.	Action Taken: Haul road at pumping station area have been sprayed with water regularly to reduce dust emission.	Closed-out on 27 April 2022
20 April 2023	Observation: Secondary container should be provided for the plastic chemicals to prevent soil contamination.	Action Taken: The container was covered by tarpaulin sheet to prevent soil contamination.	Closed-out on 27 April 2022

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
	Observation: Water safety barriers (near UU channel) should be removed.	Action Taken: Water safety barriers (near UU channel) was cleared.	Closed-out on 27 April 2022
	Observation:	Action Taken:	Closed-out on 04 May 2022
27 April 2023	Water spraying to the main haul road should be enhanced to suppress the dust emission.  Observation: The U-channel along at-grate road should be regularly maintained.	Water spraying to the main haul road have been enhanced to suppress the dust emission.  Action Taken: The U-channel along at-grate road have been regularly maintained	Closed-out on 04 May 2022

## **Status of Waste Management**

6.3 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 O.

6.4 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

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

Table 6.2 Summary of Environmental Licenses, Notifications and Permits

Environmental Licenses, Notifications and Permits	Ref. No.	Valid Form	Valid Till
Environmental Permit under EIAO	EP-337/2009	23 Apr 2009	N/A
Environmental Fernit under EIAO	EP-445/2013/B	3 May 2022	N/A
Construction Dust Notification under APCO	445956	6 June 2019	N/A
Wastewater Discharge License under WPCO	WT00034610-2019	26 Sep 2019	30 Sep 2024
Waste Disposal Billing Account	7034450	28 June 2019	N/A
Registration as a Chemical Waste Producer	5218-286-P3182-03	18 Jul 2019	N/A
Construction Noise Permit	GW-RE1060-22	14 Oct 2022	13 Apr 2023
	GW-RE1243-22	02 Dec 2022	01 Jun 2023
	GW-RE1297-22	10 Dec 2022	08 Jun 2023
	GW-RE1299-22	17 Dec 2022	15 Jun 2023
	GW-RE1420-22	05 Jan 2023	25 Jun 2023
	GW-RE0130-23	20 Feb 2023	13 Aug 2023
	GW-RE0270-23	20 Mar 2023	19 Jun 2023
	GW-RE0308-23	14 Apr 2023	13 Jul 2023

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

- 6.6 The Contractor has implemented environmental mitigation measures and requires as stated in the EIA reports, the EP and the EM&A Manuals. The implementation status of the mitigation measures during the reporting month is summarized in Appendix P.
- 6.7 In response to the site audit findings, the Contractor carried out corrective actions with summary given in Appendix P.

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

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

Table 6.3 Summary of complaints in the Reporting Month

Date of complaint received	Description of complaint	Investigation / Recommendations / Action taken	Close-out date / Status
rccivcu	complaint	ACTIOII takcii	uaic / Status
No complaint was	NA	NA	NA
received in the			
reporting month.			

6.9 Complaint log and Complaint Investigation report are shown in Appendix Q.

### 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.

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

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

# 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 follow:

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

140te 7.1 Summary of future key issues and potential impact in i	<u> </u>
Future key issues in the coming month	Potential impact
Construction of manholes and chambers at Shing Kai Road and the at-grade road near North Approach Ramp, NOR, South Depressed Road, Lift LT-4 and Noise Barrier;	Noise and Air Quality, Chemical and Waste Management
E&M works for CLP Sub-station	Noise and Air Quality, Landscape and Visual
Construction of road furniture and bituminous paving work at the at-grade road near NAR, NAR, Bridge 03, SAR and NDR	Noise and Air Quality, Chemical and Waste Management
Construction of Outfall;	Noise and Air Quality, Chemical and Waste Management
Piling works at Observation Deck;	Noise and Air Quality, Chemical and Waste Management
Watermain connection and pressure test for watermains at Shing Kai Road, NAR, Bridge 03, SAR and SDR;	Noise, Air and Water Quality
E&M works for Underpass 03;	Noise and Air Quality, Chemical and Waste Management
Construction of profile barrier, installation of precast parapet and movement joints and road paving works for Bridge 03;	Noise and Air Quality, Chemical and Waste Management
Excavation for construction of Toilet cum Changing Room;	Noise and Air Quality, Chemical and Waste Management
Watermains diversion near Lift LT-4 and T&C the lift cart for Lift LT-4;	Noise, Air and Water Quality
Excavation for construction of Pumping Stations;	Noise, Air and Water Quality
Construction of Seawater Intake Box Culvert;	Noise, Air and Water Quality
Construction of RC structure for Lift LT-1 & LT-2;	Noise, Air and Water Quality
Waterproof work, painting work and pipe work for ELD	Noise and Air Quality, Chemical and Waste Management
Construction of remaining works for Noise Barrier;	Noise, Air and Water Quality
Construction of Observation Deck;	Noise, Air and Water Quality
Diversion/ connection works (involving confined space) of DCS Seawater Intake Box Culvert;	Noise, Air and Water Quality
Rising main laying works;	Noise, Air and Water Quality
Laying of stormwater drainage pipes I sewer pipes I watermains and construction of associated manholes at Road L12d;	Noise and Air Quality, Chemical and Waste Management
Toilet cum changing room – Installation of ELS	Noise, Air and Water Quality

- 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.

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

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

## 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. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the reporting month.
- 8.3 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since1 Sept 2022. No 24-hour TSP monitoring was conducted at AM4(A) because of the assess limitation in the reporting month.
- 8.4 Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. Impact monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.
- 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.

# Figure

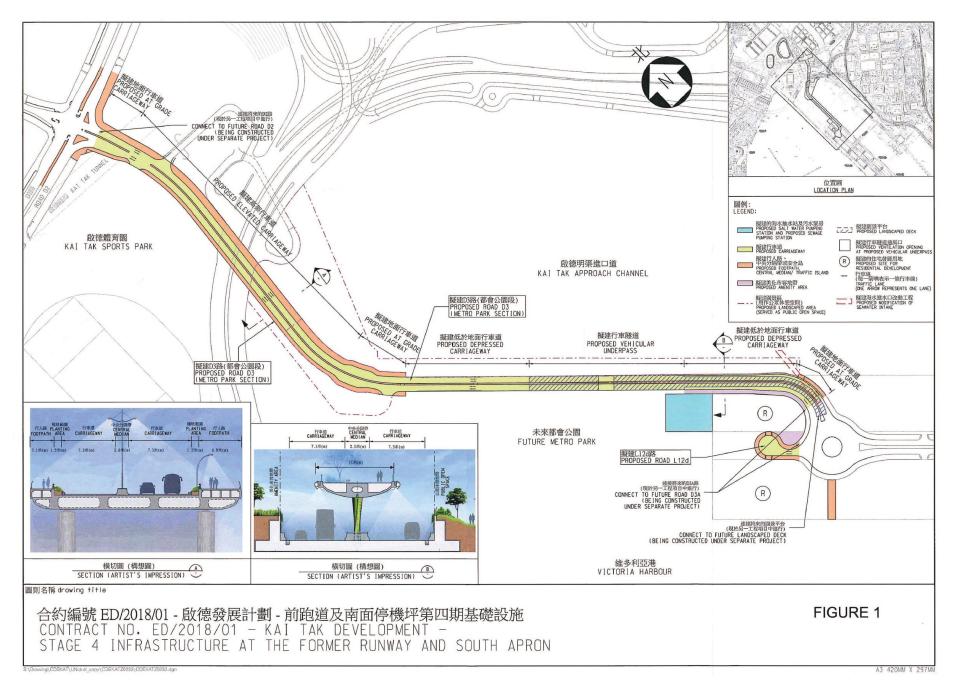


Figure 1 – Proposed works of Contract No. ED/2018/01

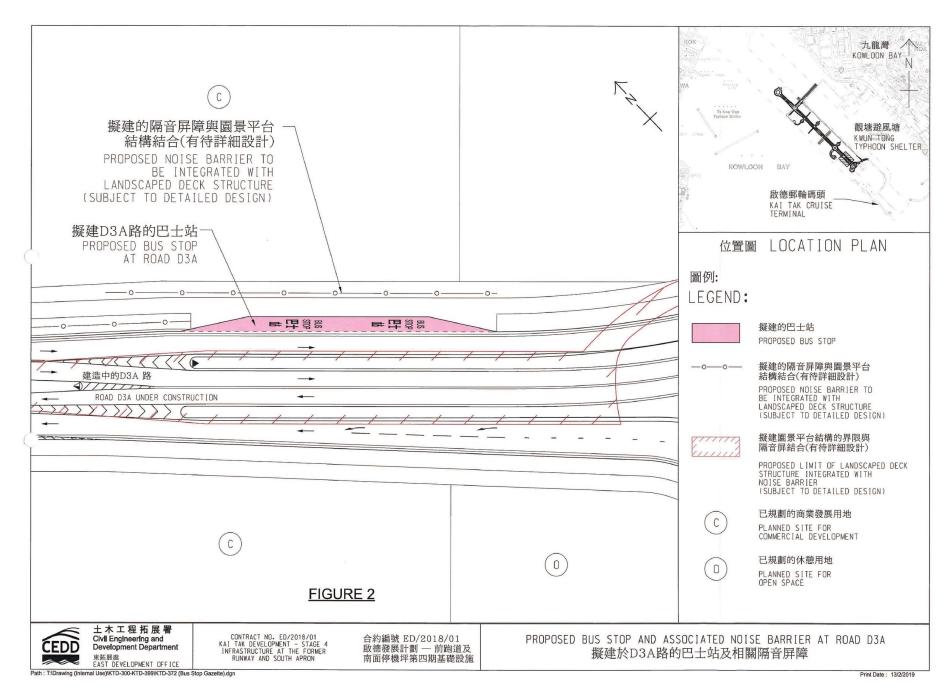


Figure 2 – Proposed Bus Stop And Associated Noise Barrier At Road D3A

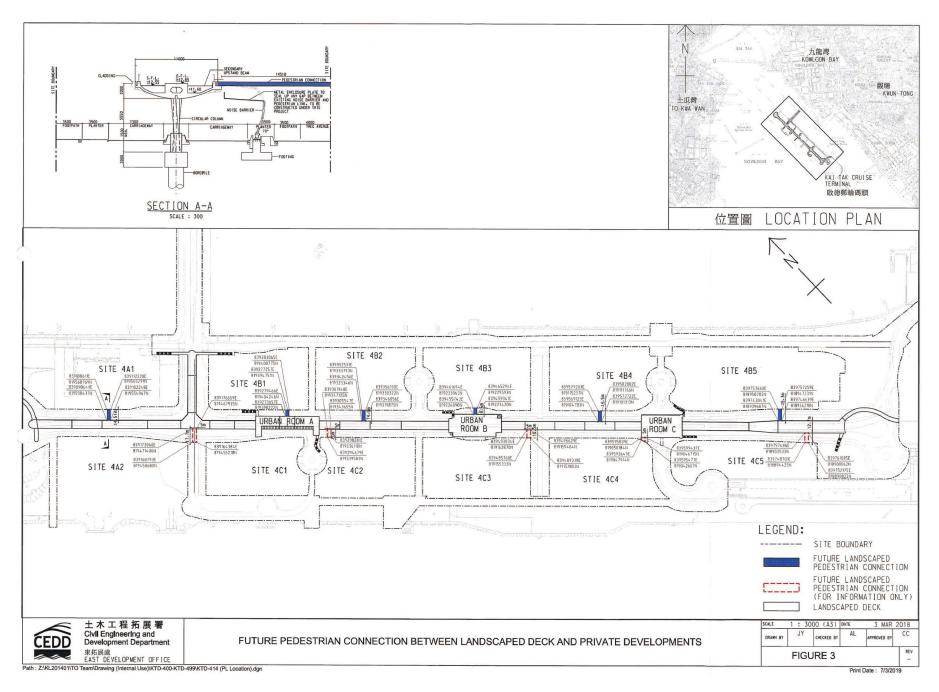


Figure 3 – Future Pedestrian Connection Between Landscaped Deck And Private Developments

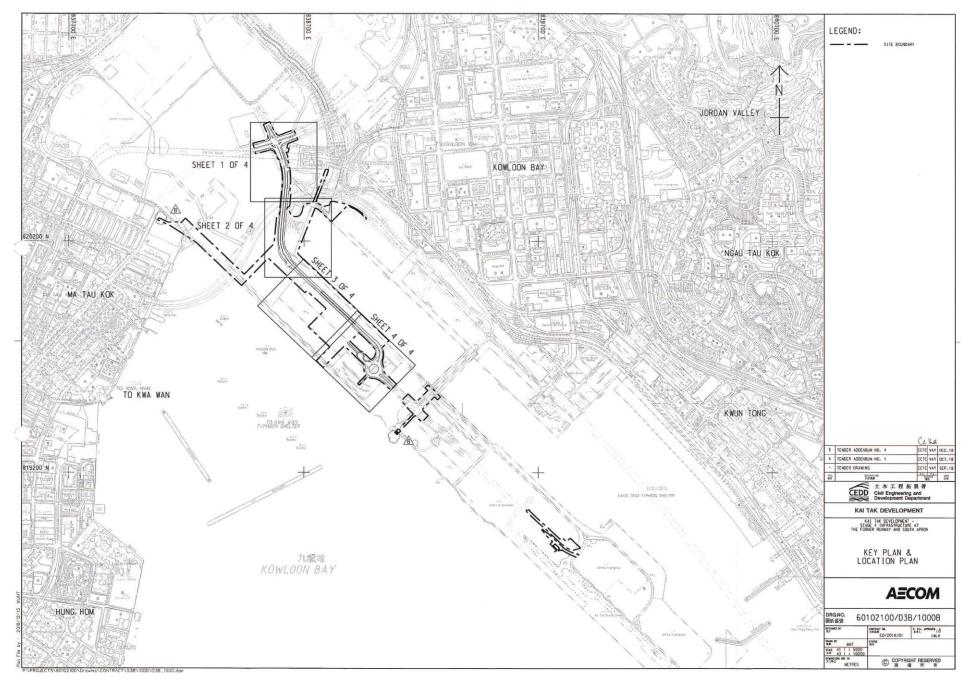
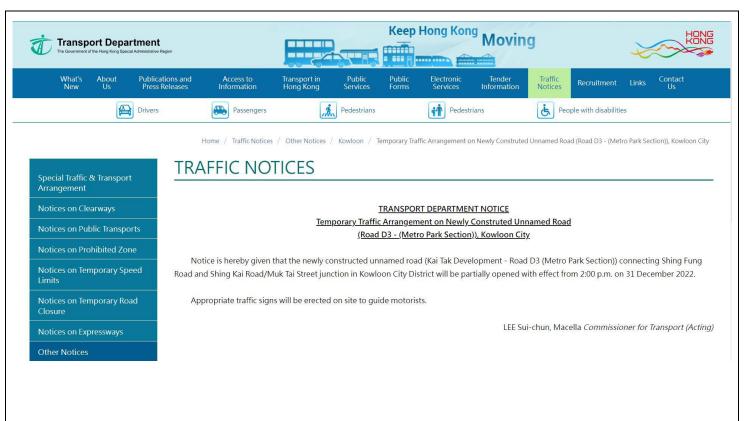


Figure 4 – Site Layout Plan



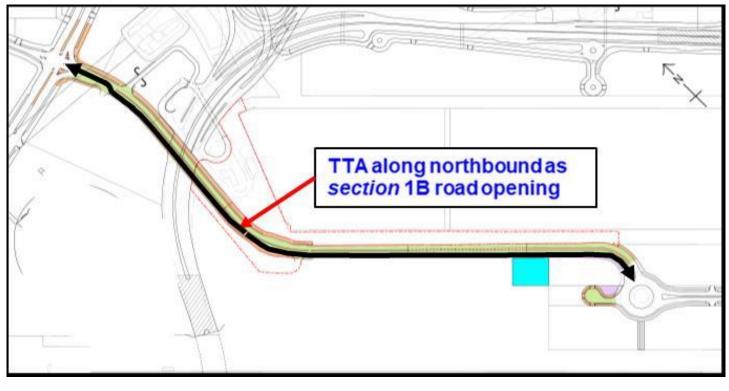


Figure 5 – New Opened Road on 31 December 2022

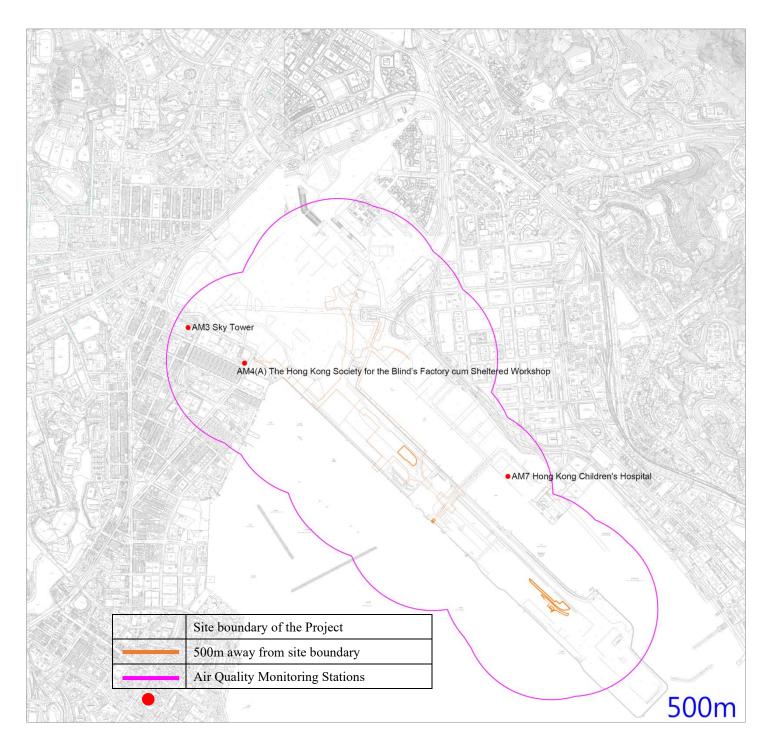


Figure 6 – Air Quality Monitoring Stations

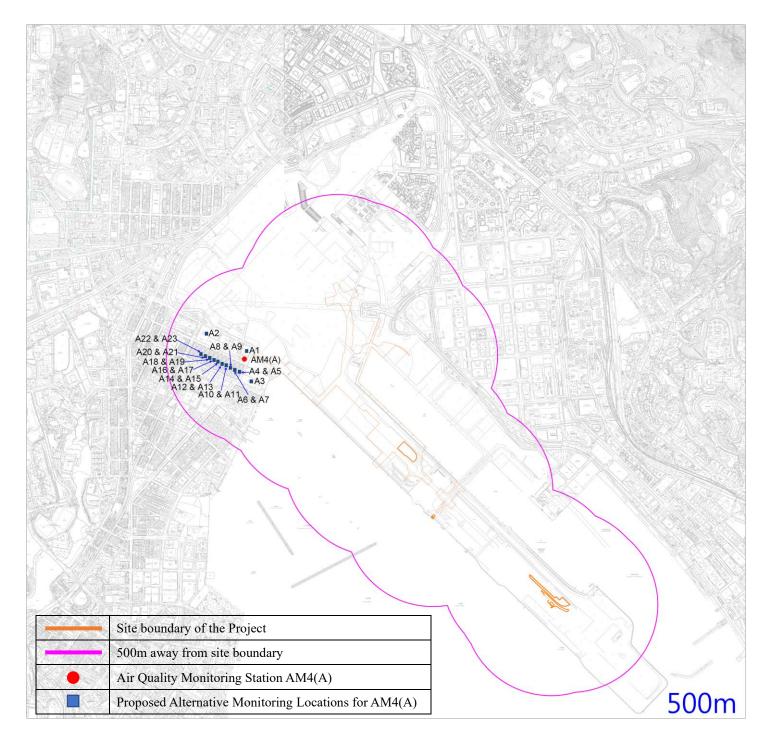
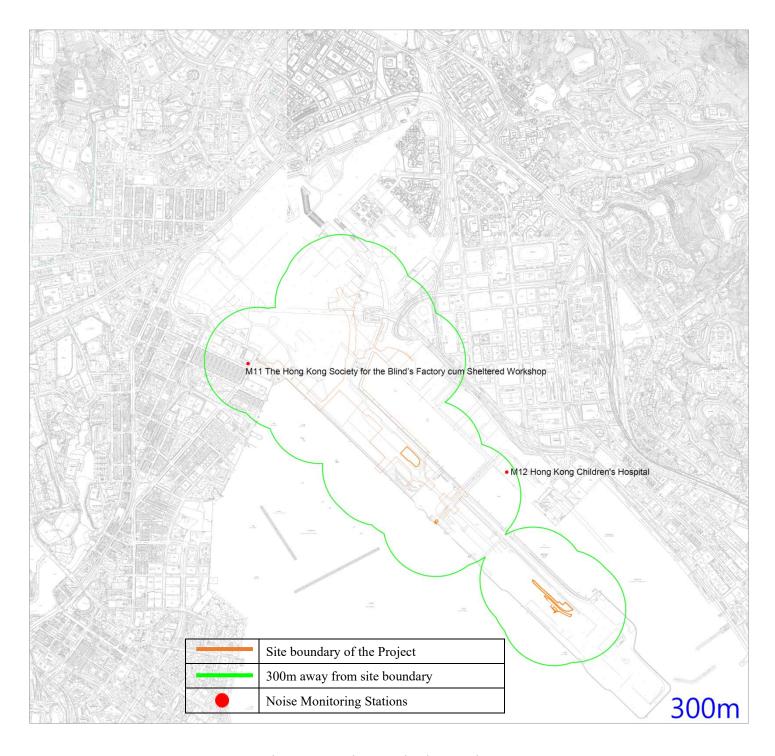


Figure 7 – Proposed Alternative Monitoring Locations for AM4(A)



 $Figure\ 8-Noise\ Monitoring\ Stations$ 

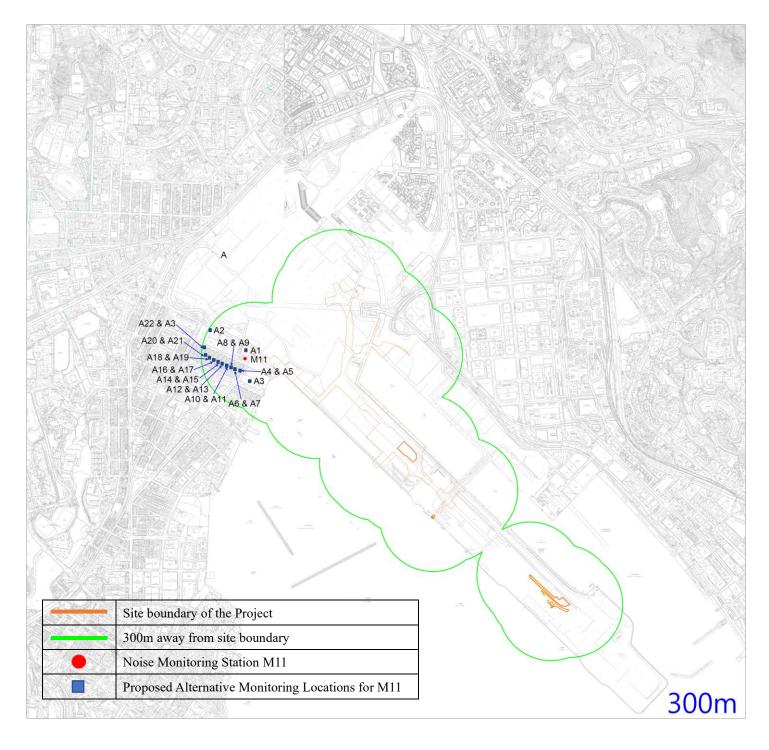
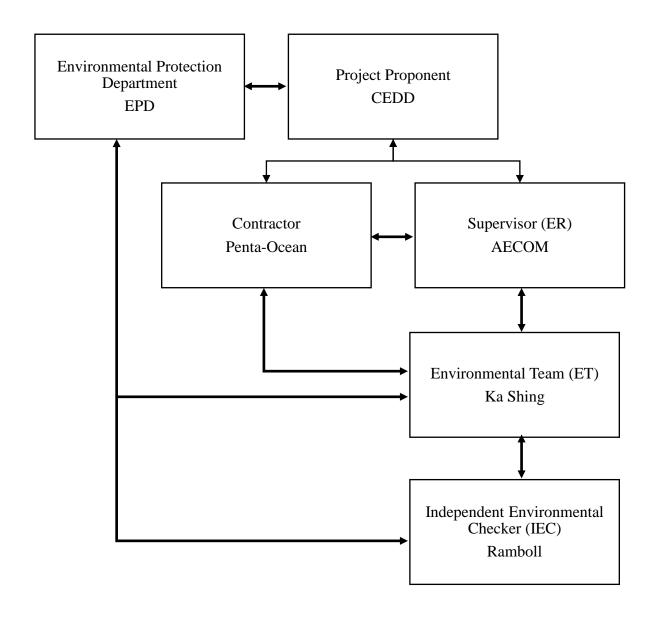


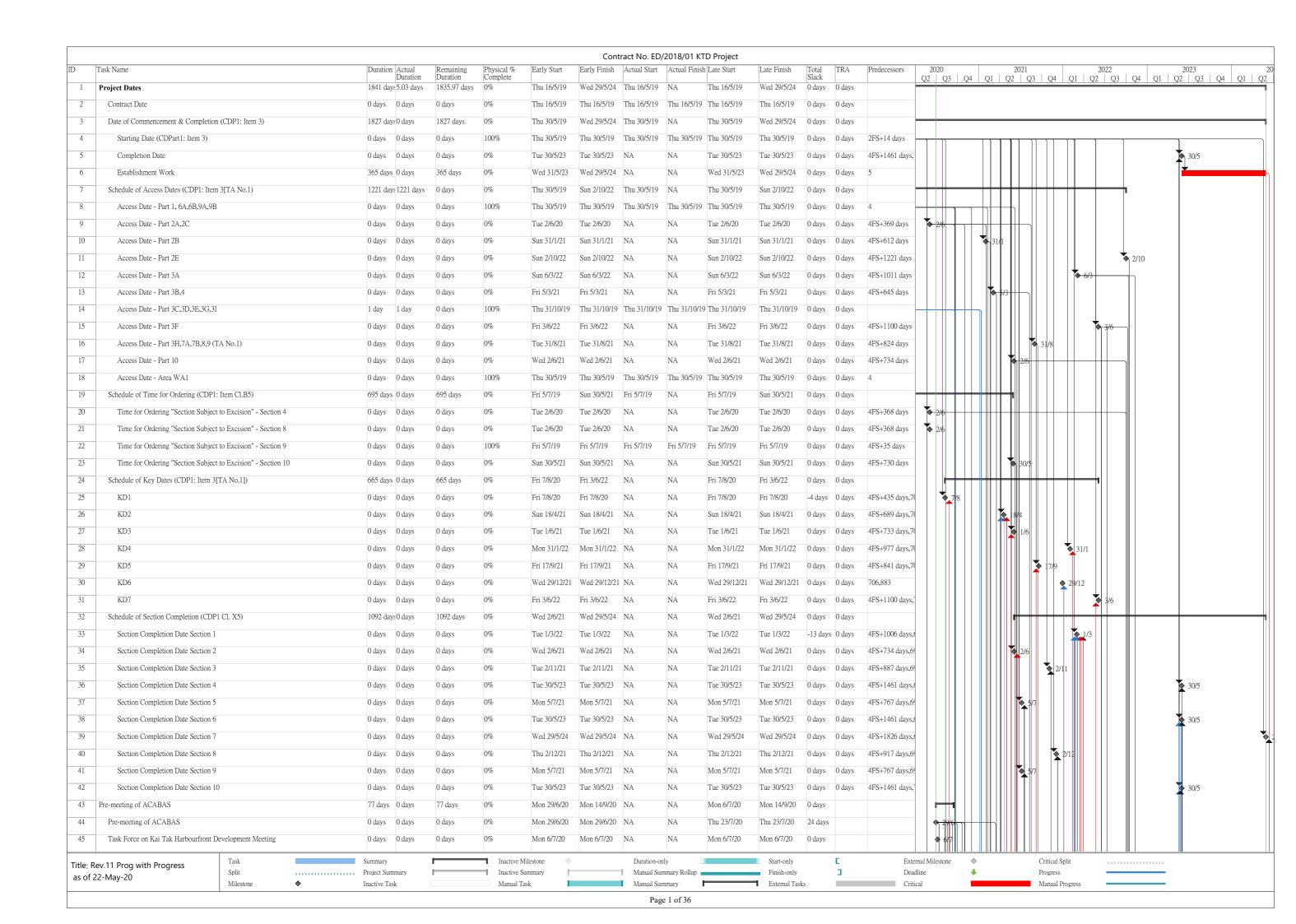
Figure 9 – Proposed Alternative Monitoring Locations for M11

# Appendix A – Organization Chart of EM&A Team



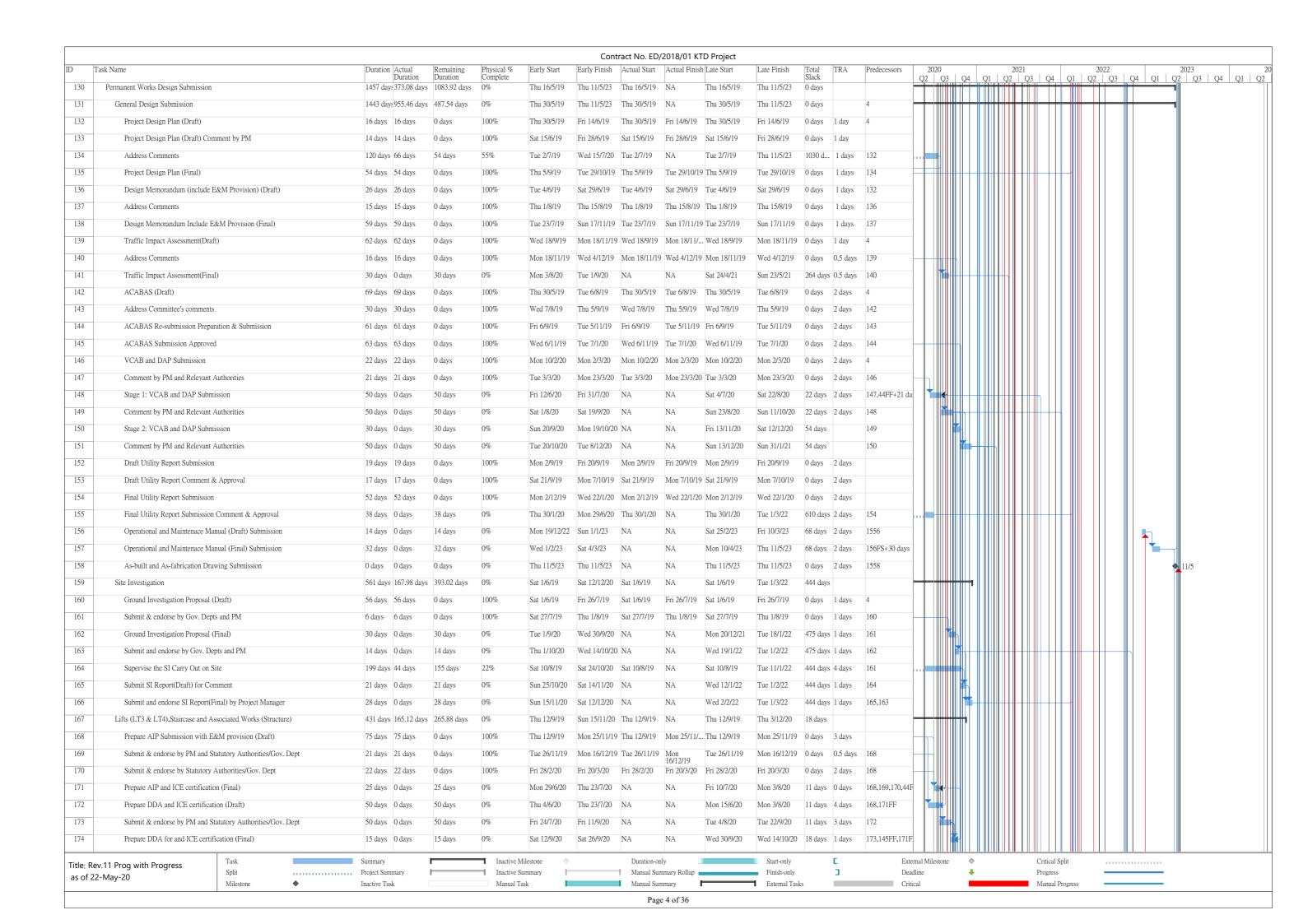
← Link of communication

# **Appendix B – Construction Programme**



_							Cont	ract No. ED/	2018/01 KT	D Project												
	Task Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA Prede		0020   Q3   Q4	01   0	2021	04 01	202		2023 Q1   Q2	
46	District Council Consultation	0 days		0 days	0%	Mon 14/9/20	Mon 14/9/20	NA	NA	Mon 14/9/20	Mon 14/9/20	0 days		Q2	14/9					Q3   Q4	Q1 Q2	Q3   Q+   Q
47	Project Manager's Instruction	8 days	8 days	0 days	0%	Thu 20/2/20	Fri 28/2/20	Thu 20/2/20	Fri 28/2/20	Thu 20/2/20	Fri 28/2/20	0 days										
48	PMI No. 001 - BIM Promenade Walk-through Video for Infrastructure in Kai Tak Stage 4	0 days	0 days	0 days	100%	Thu 20/2/20	Thu 20/2/20	Thu 20/2/20	Thu 20/2/20	Thu 20/2/20	Thu 20/2/20	0 days		0/2								
49	PMI No. 002 - Arranagement of Restricting Site Activities due to Spread of the Noval Coronavirus Between 29 January 2020 to 02 February 2020	0 days	0 days	0 days	100%	Fri 28/2/20	Fri 28/2/20	Fri 28/2/20	Fri 28/2/20	Fri 28/2/20	Fri 28/2/20	0 days		28/2								
50	Compensation Event	16 days	16 days	0 days	0%	Mon 10/2/20	Wed 26/2/20	Mon 10/2/20	Wed 26/2/20	Mon 10/2/20	Wed 26/2/20	0 days										
51	CE/001: BIM Promenade Walk-through Video for Infrastructure in Kai Tak Stage 4	0 days	0 days	0 days	100%	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	0 days		V2								
52	CE/002 - Arranagement of Restricting Site Activities due to Spread of the Noval Coronavirus Between 29 January 2020 to 02 February 2020	0 days	0 days	0 days	100%	Wed 26/2/20	Wed 26/2/20	Wed 26/2/20	Wed 26/2/20	Wed 26/2/20	Wed 26/2/20	0 days		16/2								
53	Early Warning	257 days	257 days	0 days	0%	Wed 10/7/19	Mon 23/3/20	Wed 10/7/19	Mon 23/3/20	Wed 10/7/19	Mon 23/3/20	0 days										
54	EW No. 001: CLP's 11kV and 132kV Cable Routing across Utility Trough of Bridge D3 and Alongside Road D3 (Metro Park Section)	0 days	0 days	0 days	100%	Wed 10/7/19	Wed 10/7/19	Wed 10/7/19	Wed 10/7/19	Wed 10/7/19	Wed 10/7/19	0 days										
55	EW No. 002: Deep Excavation Basement Construction Works from CKR-BEM Contract	0 days	0 days	0 days	100%	Thu 5/9/19	Thu 5/9/19	Thu 5/9/19	Thu 5/9/19	Thu 5/9/19	Thu 5/9/19	0 days										
56	EW No. 003: Overhang Cables of CLP Delay the Northern Depressed Road	0 days	0 days	0 days	100%	Wed 11/9/19	Wed 11/9/19	Wed 11/9/19	Wed 11/9/19	Wed 11/9/19	Wed 11/9/19	0 days										
7	EW No. 004: Late Commencement on Noise and Air Baseline Monitoring Delay the Northern Depressed Road CH1560 to 1720	0 days	0 days	0 days	100%	Mon 4/11/19	Mon 4/11/19	Mon 4/11/19	Mon 4/11/19	Mon 4/11/19	Mon 4/11/19	0 days										
i8	EW No. 005: Maintain the SCL RoW which should have been diverted to the RoW Constructed by KTSP caused Disruption to the Construction of North Approach Ramp especially affect the KTD1	0 days	0 days	0 days	100%	Wed 13/11/19	Wed 13/11/19	Wed 13/11/19	Wed 13/11/19	Wed 13/11/19	Wed 13/11/19	0 days										
59	EW No. 006: Deferral of Design Deliverables	0 days	0 days	0 days	100%	Mon 16/12/19	Mon 16/12/19	Mon 16/12/19	Mon 16/12/	Mon 16/12/19	Mon 16/12/19	0 days										
50	EW No. 007: Delay on Driven H-piles by KTSP may affect the KD1	0 days	0 days	0 days	100%	Fri 20/12/19	Fri 20/12/19	Fri 20/12/19	Fri 20/12/19	Fri 20/12/19	Fri 20/12/19	0 days										
1	EW No. 008: Not Allow to Extract Sheetpiles of North Approach Ramp beside Kai Tak Sport Park as Discussed at the Interface Meeting	0 days	0 days	0 days	100%	Fri 27/12/19	Fri 27/12/19	Fri 27/12/19	Fri 27/12/19	Fri 27/12/19	Fri 27/12/19	0 days										
2	EW No. 010: Existing 150mm Fresh Water Pipe clashing with Bridge D3 and South Approach Ramp	0 days	0 days	0 days	100%	Wed 8/1/20	Wed 8/1/20	Wed 8/1/20	Wed 8/1/20	Wed 8/1/20	Wed 8/1/20	0 days										
3	EW No. 011: Additional Requirement for Special Arrangement for Design and Construction of Noise Barrier fir Future Connection of Footbridge FB10 from Development Site 4B5	0 days	0 days	0 days	100%	Tue 14/1/20	Tue 14/1/20	Tue 14/1/20	Tue 14/1/20	Tue 14/1/20	Tue 14/1/20	0 days										
4	EW No. 014: Planning of the Works in Revised Programme (Rev. 6)	0 days	0 days	0 days	100%	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	0 days		V2								
5	EW No. 015: Outbreak of Novel Coronavirus (Constraints on Working Time)	0 days	0 days	0 days	100%	Tue 11/2/20	Tue 11/2/20	Tue 11/2/20	Tue 11/2/20	Tue 11/2/20	Tue 11/2/20	0 days		/2								
5	EW No. 016: Outbreak of Novel Coronavirus (Late Supply of Agggregate)	0 days	0 days	0 days	100%	Wed 19/2/20	Wed 19/2/20	Wed 19/2/20	Wed 19/2/20	Wed 19/2/20	Wed 19/2/20	0 days		9/2								
7	EW No. 020: GEO Audit for Underpass D3	0 days	0 days	0 days	100%	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20	0 days		13/3								
8	EW No. 021: Unforessen Underground Water at North Approach Ramp Bay 6	0 days	0 days	0 days	100%	Thu 12/3/20	Thu 12/3/20	Thu 12/3/20	Thu 12/3/20	Thu 12/3/20	Thu 12/3/20	0 days		12/3								
9	EW No. 022:Deferral of Interface Management Plan Submission for Noise Barrier Works	0 days	0 days	0 days	100%	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20	0 days		13/3								
0	EW No. 023:Disruption of the Works due to Stockpile was not allowed to dispose to the Proposed Disposal Ground	0 days	0 days	0 days	100%	Mon 16/3/20	Mon 16/3/20	Mon 16/3/20	Mon 16/3/20	Mon 16/3/20	Mon 16/3/20	0 days		16/3								
1	EW No. 025: Broken Steel Casing for Bored Pile P02-BP2	0 days	0 days	0 days	100%	Mon 23/3/20	Mon 23/3/20	Mon 23/3/20	Mon 23/3/20	Mon 23/3/20	Mon 23/3/20	0 days		23/3								
2	Contractor's Notification of Compensation Event	14 days	0 days	14 days	0%	Thu 28/5/20	Thu 11/6/20	NA	NA	Tue 9/6/20	Tue 7/7/20	12 days		r	ı							
3	Compensation Event (CNCE) No. 009 - Inclement Weather in April 2020	0 days	0 days	0 days	0%	Thu 28/5/20	Thu 28/5/20	NA	NA	Tue 7/7/20	Tue 7/7/20	40 days		•	<del>-28</del> /5							
4	Compensation Event - Inclement Weather in May 2020	0 days	0 days	0 days	0%	Thu 11/6/20	Thu 11/6/20	NA	NA	Tue 9/6/20	Tue 9/6/20	-2 days			<b>→</b> 11/6							
5	Project Submission	1457 day	s 401.03 days	1055.97 days	0%	Thu 16/5/19	Thu 11/5/23	Thu 16/5/19	NA	Thu 16/5/19	Thu 11/5/23	0 days	0 days	+								
5	Submit Third Parties Insurance	71 days	71 days	0 days	100%	Tue 18/6/19	Tue 27/8/19	Tue 18/6/19	Tue 27/8/19	Tue 18/6/19	Tue 27/8/19	0 days	0 days 4									
7	Works Programme	160 days	160 days	0 days	0%	Thu 16/5/19	Tue 22/10/19	Thu 16/5/19	Thu 15/8/19	Thu 16/5/19	Tue 22/10/19	0 days										
3	Submit First Programme	20 days		0 days	100%	Thu 16/5/19	Tue 4/6/19	Thu 16/5/19	Tue 4/6/19	Thu 16/5/19	Tue 4/6/19	0 days	0 days 2									
)	Review and Comment by Project Manager	9 days	9 days	0 days	100%	Wed 5/6/19	Thu 13/6/19	Wed 5/6/19	Thu 13/6/19	Wed 5/6/19	Thu 13/6/19	0 days	0 days 78									
)	Revise and Resubmission of Works Programme	42 days		0 days	100%	Fri 14/6/19	Thu 25/7/19		Thu 25/7/19				0 days 79									
<u> </u>	Final Review and Acceptance of the First Programme by Project Manager	20 days		0 days	100%	Sat 27/7/19	Thu 15/8/19		Thu 15/8/19		Thu 15/8/19		0 days 80									
2	Submit Health and Safety Management Plan (ACC Cl. D6(2))	6 days		0 days	100%	Thu 30/5/19	Tue 4/6/19	Thu 30/5/19			Tue 4/6/19		0.5 day 4									
3	Submit Detailed Programme for Safety Risk (ER Part 7, Cl. 7.3.4)	34 days		0 days	100%	Mon 9/12/19	Sat 11/1/20		Sat 11/1/20		Sat 11/1/20		0.5 day 4									
4	Submit Environmental Management Plan (ACC Cl. D20(2))	6 days		0 days	100%	Thu 30/5/19	Tue 4/6/19	Thu 30/5/19			Tue 4/6/19		0.5 day 4									
35	Submit BIM Models Deliverables		262 days	0 days	0%	Tue 13/8/19		Tue 13/8/19				0 days	0.5 udy 4									
·le·	Rev.11 Prog with Progress	Summary			Inactive M	ilestone $\diamondsuit$		Duration-on	ly		Start-only			External M	ilestone	<b>*</b>	Cr	ritical Split				
	22-May-20 Split	Project Sum			Inactive Su				nmary Rollup		Finish-only		3	Deadline		<b>↓</b>	Pr	rogress				
	Milestone ♦	Inactive Tas	k		Manual Ta	sk		Manual Sun	nmary 🖡	_	External Tasl	ks		Critical			M	anual Progres	SS •			

							Con	tract No. ED	/2018/01 KTD P	Project													
	Task Name	Duration		Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish Lat	te Start	Late Finish		TRA	Predecessors	2020	2   04   6		2021	4 01   6	2022	24 01 0	2023	01
86	Existing Site Model (Topography)	46 days	Duration 46 days	Duration 0 days	Complete 100%	Tue 13/8/19	Fri 27/9/19	Tue 13/8/19	Fri 27/9/19 Tue	e 13/8/19	Fri 27/9/19	Slack 0 days	1 day		Q2   Q	3 Q4 Q	Q1 Q2	Q3   Q	4   Q1   Q	/2   Q3   C	Q4   Q1   Q	2   Q3   (	24   Q1
87	Existing Underground Utilities (UU) Model	33 days	33 days	0 days	100%	Mon 26/8/19	Fri 27/9/19	Mon 26/8/19	Fri 27/9/19 Mo	on 26/8/19	Fri 27/9/19	0 days	1 day										
88	3D Digital Survey For Existing Conditions	44 days	44 days	0 days	100%	Mon 2/9/19	Tue 15/10/19	Mon 2/9/19	Tue 15/10/19 Mo	on 2/9/19	Tue 15/10/19	0 days	1 day										
89	3D Photogrametry Model	46 days	46 days	0 days	100%	Mon 16/9/19	Thu 31/10/19	Mon 16/9/19	Thu 31/10/19 Mo	on 16/9/19	Thu 31/10/19	0 days	1 day										
90	AIP Model	16.92 day	16.92 days	0 days	100%	Fri 6/9/19	Sun 22/9/19	Fri 6/9/19	Sun 22/9/19 Fri	6/9/19	Sun 22/9/19	0 days	1 day										
91	Interfacing Contract Model	53 days	53 days	0 days	100%	Mon 9/9/19	Thu 31/10/19	Mon 9/9/19	Thu 31/10/19 Mo	on 9/9/19	Thu 31/10/19	0 days	1 day										
92	Monthly Updated BIM Model	1 day	1 day	0 days	100%	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19 Thu	u 31/10/19	Thu 31/10/19	0 days	1 day										
93	4D Model Linked Up with Programme	0 days	0 days	0 days	100%	Thu 30/4/20	Thu 30/4/20	Thu 30/4/20	Thu 30/4/20 Thu	u 30/4/20	Thu 30/4/20	0 days	1 day		♦ 30/4								
94	Construction Method Simulation (CMS) in 3D Model	0 days	0 days	0 days	100%	Wed 22/4/20	Wed 22/4/20	Wed 22/4/20	Wed 22/4/20 We	ed 22/4/20	Wed 22/4/20	0 days	1 day		<b>♦</b> 22/4								
95	BIM Deliverables Schedule	896 days	3.72 days	892.28 days	0%	Thu 16/5/19	Wed 27/10/2	1 Thu 16/5/19	NA Thu	u 16/5/19	Tue 11/1/22	76 days											
96	Establish BIM Team	0 days	0 days	0 days	100%	Sat 3/8/19	Sat 3/8/19	Sat 3/8/19	Sat 3/8/19 Sat	t 3/8/19	Sat 3/8/19	0 days	1 day										
97	BIM Execution Plan	0 days		0 days	100%	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19 Sat	1 31/8/19	Sat 31/8/19	0 days	1										
98	BIM Submission Schedule	0 days		0 days	100%	Fri 16/8/19	Fri 16/8/19	Fri 16/8/19	Fri 16/8/19 Fri	16/8/19	Fri 16/8/19	0 days	_										
99	BIM 360 License	0 days	-	0 days	100%	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19 Sat		Sat 31/8/19	0 days	_		$-\parallel \parallel \parallel \parallel$								
100	BIM/Drawing Management Software System	0 days		0 days	100%	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19 Sat		Sat 31/8/19	0 days											
101	CDE Setup		1 day	0 days	100%	Sat 31/8/19	Mon 9/9/19	Sat 31/8/19	Mon 9/9/19 Sat		Mon 9/9/19	0 days											
102	Clash Report Format		0 days	0 days	100%	Thu 12/9/19			Thu 12/9/19 Thu		Thu 12/9/19	0 days	-										
103	Monthly Report Format	0 days		0 days	100%	Thu 12/9/19			Thu 12/9/19 Thu		Thu 12/9/19	0 days											
103	Quality Assurance Plan for BIM				100%	Mon 30/9/19			Mon 30/9/19 Mo		Mon 30/9/19												
104		0 days		0 days	100%																		
.06	BIM Training Plan	0 days		0 days	100%	Thu 10/10/19			Thu 10/10/19 Thu Mon 30/9/19 Mo		Thu 10/10/19		-										
	BIM Training Schedule for CIC Training	0 days		0 days		Mon 30/9/19					Mon 30/9/19												
.07	Monthly BIM Progress Report		0 days	0 days	100%	Thu 16/5/19			Tue 31/12/19 Thu		Tue 31/12/19		-										
108	Monthly Clash Report		1 day	0 days	100%	Tue 31/3/20	Tue 31/3/20				Tue 31/3/20	0 days											
109	BIM Object Libraries		1 day	0 days	100%	Thu 12/9/19			Thu 12/9/19 Thu			0 days	1										
110	Trees Preservation and Removal Proposal (TPRP) for tress along promenade open space Submission	-	-	0 days	0%	Mon 2/11/20	Mon 2/11/20			n 17/1/21	Sun 17/1/21	63 days				2/11							
111	Trees Preservation and Removal Proposal (TPRP) for tress along promenade open space Submission Comment & Approval by Relevant Government Authories	e 360 days	0 days	360 days	0%	Mon 2/11/20	Wed 27/10/2	1 NA	NA Sur	n 17/1/21	Tue 11/1/22	76 days	1 day	110				-					
112	Trees Preservation and Removal Proposal (TPRP) for tress along Sing Kai Submission	0 days	0 days	0 days	0%	Fri 31/7/20	Fri 31/7/20	NA	NA We	ed 30/9/20	Wed 30/9/20	52 days	1 day		-	31./7							
113	Trees Preservation and Removal Proposal (TPRP) for tress along Sing Kai Road	360 days	0 days	360 days	0%	Fri 31/7/20	Sun 25/7/21	NA	NA We	ed 30/9/20	Fri 24/9/21	61 days	1 day	112									
	Submission Comment & Approval by Relevant Government Authories																						
114	Temporary Traffic Management	478 days	447.84 days	30.16 days	0%	Thu 30/5/19	Fri 18/9/20	Thu 30/5/19		u 30/5/19	Fri 25/9/20	7 days				TT							
115	Submit Traffic Engineering Consultant and TTM Team Leader (PS1.16(3))	14 days	14 days	0 days	100%	Thu 30/5/19	Wed 12/6/19	Thu 30/5/19	Wed 12/6/19 Thu	u 30/5/19	Wed 12/6/19	0 days	1 day	4									
116	Submit EP Mgt System Co-ordinator (PS Cl. 1.18N(2))	7 days	7 days	0 days	100%	Thu 30/5/19	Wed 5/6/19	Thu 30/5/19	Wed 5/6/19 Thu	u 30/5/19	Wed 5/6/19	0 days	1 day	4									
117	Approve of EP Co-ordinator by Project Manager (PS Cl. 1.18N(2))	14 days	14 days	0 days	100%	Thu 6/6/19		Thu 6/6/19	Wed 19/6/19 Thu		Wed 19/6/19	0 days	1 day	116									
118	Submit UU detection equipment for Supervisor approval (PS Cl. 1.25A(1))	7 days	7 days	0 days	100%	Thu 30/5/19	Wed 5/6/19	Thu 30/5/19	Wed 5/6/19 Thu	u 30/5/19	Wed 5/6/19	0 days	1 day	4									
119	Submit & obtain approval: site office's location and layout plan (PS Cl. 1.45(11)) (7d submission + 14d approval)	47 days	47 days	0 days	100%	Thu 30/5/19	Fri 18/10/19	Thu 30/5/19	Fri 18/10/19 Thu	u 30/5/19	Fri 18/10/19	0 days	1 day	4									
120	Submit Site survey record (PS Cl.1.47(7))	34 days	34 days	0 days	100%	Thu 30/5/19	Tue 2/7/19	Thu 30/5/19	Tue 2/7/19 Thu	u 30/5/19	Tue 2/7/19	0 days	1 day	4									
121	Submit & obtain approval: fencing & hoarding plan (PS Cl. 1.48(10)	40 days	0 days	40 days	0%	Mon 10/8/20	Fri 18/9/20	NA	NA Mo	on 17/8/20	Fri 25/9/20	7 days	0.5 days	4						+++			
122	Submit site facilities (PS Cl. 1.50S)	65 days	65 days	0 days	100%	Thu 30/5/19	Fri 2/8/19	Thu 30/5/19	Fri 2/8/19 Thu	u 30/5/19	Fri 2/8/19	0 days	0.5 days	4									
123	Submit security system (PS Cl. 1.53A(5))	36 days	36 days	0 days	100%	Thu 30/5/19	Thu 4/7/19	Thu 30/5/19	Thu 4/7/19 Thu	u 30/5/19	Thu 4/7/19	0 days	0.5 days	4									
24	Submit Interface Management Plan (PS Cl. 1.89(2))	47 days	47 days	0 days	100%	Thu 30/5/19	Mon 15/7/19	Thu 30/5/19	Mon 15/7/19 Thu	u 30/5/19	Mon 15/7/19	0 days	0.5 days	4									
125	Submit Subcontractor Management Plan (ACC Cl. C5(1))	13 days	13 days	0 days	100%	Thu 30/5/19	Tue 11/6/19	Thu 30/5/19	Tue 11/6/19 Thu	u 30/5/19	Tue 11/6/19	0 days	0.5 days	4									
126	Submit Temporary Drainage and Sewerage Management Plan (PS Cl. 1.24A(1))	174 days	174 days	0 days	100%	Thu 30/5/19	Tue 19/11/19	Thu 30/5/19	Tue 19/11/19 Thu	u 30/5/19	Tue 19/11/19	0 days	1 day	4									
127	Submit EM&A Manual (ER Part 8, Cl. 8.2)	6 days	6 days	0 days	100%	Thu 30/5/19	Tue 4/6/19	Thu 30/5/19	Tue 4/6/19 Thu	u 30/5/19	Tue 4/6/19	0 days	0 days	4									
128	Submit Proposal of selection of suppliers of Plant and Materials (ACC Cl. C11(1)	80 days	80 days	0 days	100%	Thu 30/5/19	Sat 17/8/19	Thu 30/5/19	Sat 17/8/19 Thu	u 30/5/19	Sat 17/8/19	0 days	0 days	4									
129	Submit Contractor's Management Team (ACC Cl. D1(3))	50 days	50 days	0 days	100%	Thu 30/5/19	Thu 18/7/19	Thu 30/5/19	Thu 18/7/19 Thu	u 30/5/19	Thu 18/7/19	0 days	0 days	4	$\parallel \parallel \parallel$								
	Task	Summary			Inactive Mi	ilestone 🔷		Duration-o	nlv		Start-only		<u> </u>	Fv	temal Mileston	<u>                                     </u>		Critic	al Split				
	ev. i i Prog with Progress	Project Sumn	nary	-	Inactive Su			Manual Su	mmary Rollup		Finish-only		3		adline	•		Progr					
	Milestone •	Inactive Task			Manual Tas	sk		Manual Su	mmary		External Tasl	CS		Cr	itical			Manu	al Progress				



						Cont	tract No. ED/	/2018/01 KT	D Project												
	Task Name	Duration Actual	Remaining	Physical %	Early Start		Actual Start			Late Finish		TRA	Predecessors	2020			021	2022	1 04 5: 1	2023	
75	Submit & endorse by PM and Statutory Authorities/Gov. Dept	Duration 50 days	Duration 50 days	Complete 0%	Sun 27/9/20	Sun 15/11/20	NA	NA	Thu 15/10/20	Thu 3/12/20	Slack 18 days	3 days	174	Q2 Q	3 Q4	Q1 Q2	Q3   Q4	Q1   Q2   Q3	Q4 Q1	Q2   Q3	Q4   Q
76	Noise barrier fronting to 4B5 at Rd D3A & Bus Lay By (Section 5&9)	338 days 215.23 days		0%	Mon 4/11/19	Tue 6/10/20	Mon 4/11/19		Mon 4/11/19	Wed 7/10/20	1 day				<b></b>						
77	Prepare AIP Submission (Draft)	38 days 38 days	0 days	100%	Mon 4/11/19		Mon 4/11/19			Wed 11/12/19	0 days	2 days									
78	Submit & endorse by PM and Statutory Authorities/Gov. Dept			97%	Thu 12/12/19				Thu 12/12/19	Wed 27/5/20		2 days	177								
		167 days 162 days	5 days								1 day										
79	Prepare AIP and ICE certification (Final)	56 days 31 days	25 days	55%	Wed 22/4/20	Tue 16/6/20	Wed 22/4/20		Wed 22/4/20	Wed 17/6/20	1 day		178FF+21 days								
80	Prepare DDA Subm (Draft)	18 days 18 days	0 days	100%	Wed 1/4/20	Sat 18/4/20	Wed 1/4/20	Sat 18/4/20	Wed 1/4/20	Sat 18/4/20	0 days	0.5 days									
81	Submit & endorse by PM	55 days 35 days	20 days	64%	Sat 18/4/20	Thu 11/6/20	Sat 18/4/20	NA	Sat 18/4/20	Thu 6/8/20	56 days		180								
32	Submit & endorse by Statutory Authorities/Gov. Dept	50 days 0 days	50 days	0%	Wed 17/6/20	Wed 5/8/20	NA	NA	Thu 18/6/20	Thu 6/8/20	1 day		180,179								
33	Prepare DDA for and ICE certification (Final) (Original Contract Scope)	12 days 0 days	12 days	0%	Thu 6/8/20	Mon 17/8/20	NA	NA	Fri 7/8/20	Tue 18/8/20	1 day	1 days	181,182								
34	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days 0 days	50 days	0%	Tue 18/8/20	Tue 6/10/20	NA	NA	Wed 19/8/20	Wed 7/10/20	1 day	1 days	183	1      i							
35	Decking for Underpass (Rd L14)	304 days 0 days	304 days	0%	Mon 20/7/20	Wed 19/5/21	NA	NA	Fri 31/7/20	Sun 30/5/21	11 days										
86	Structure Prepare AIP and ICE certification (Draft)	25 days 0 days	25 days	0%	Mon 20/7/20	Thu 13/8/20	NA	NA	Fri 31/7/20	Mon 24/8/20	11 days	3 days	44FF+12 days		Щ						
37	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days 0 days	50 days	0%	Fri 14/8/20	Fri 2/10/20	NA	NA	Tue 25/8/20	Tue 13/10/20	11 days	0.5 days	186								
38	Prepare AIP and ICE certification (Final)	15 days 0 days	15 days	0%	Sat 3/10/20	Sat 17/10/20	NA	NA	Wed 14/10/20	Wed 28/10/20	11 days	1 day	186,187								
9	Prepare DDA and ICE certification (Draft)	89 days 0 days	89 days	0%	Sun 18/10/20	Thu 14/1/21	NA	NA	Thu 29/10/20	Mon 25/1/21	11 days	1 day	186,188								
0	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days 0 days	50 days	0%	Fri 15/1/21		NA	NA	Tue 26/1/21	Tue 16/3/21		0.5 days									
1	Prepare DDA and ICE certification (Final)	25 days 0 days	25 days	0%	Sat 6/3/21	Tue 30/3/21		NA	Wed 17/3/21	Sat 10/4/21	11 days		190	-							
2	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days 0 days	50 days	0%	Wed 31/3/21	Wed 19/5/21			Sun 11/4/21	Sun 30/5/21	11 days	1 day	191								
13	Road D3 Bridge & Approach Ramps	439 days 358.08 days		0%	Thu 30/5/19		Thu 30/5/19		Thu 30/5/19	Thu 8/10/20	59 days		4								
4	D3 Bridge Substructure	439 days 358.08 days	80.92 days	0%	Thu 30/5/19	Mon 10/8/20	Thu 30/5/19	NA	Thu 30/5/19	Thu 8/10/20	59 days										
5	Prepare AIP and ICE certification (Draft)	66 days 66 days	0 days	100%	Thu 30/5/19	Sat 3/8/19	Thu 30/5/19	Sat 3/8/19	Thu 30/5/19	Sat 3/8/19	0 days	3 days	4								
6	Submit & endorse by PM and Statutory Authorities/Gov. Dept	15 days 15 days	0 days	100%	Mon 5/8/19	Mon 19/8/19	Mon 5/8/19	Mon 19/8/19	Mon 5/8/19	Mon 19/8/19	0 days	1 days	195,138								
7	Prepare AIP and ICE certification (Final)	30 days 30 days	0 days	100%	Mon 23/12/19	Tue 21/1/20	Mon 23/12/19	Tue 21/1/20	Mon 23/12/19	Tue 21/1/20	0 days	0 days	195,196								
8	Prepare DDA and ICE certification (Draft)	106 days 106 days	0 days	100%	Fri 19/7/19	Sun 17/11/19	Fri 19/7/19	Sun 17/11/19	Fri 19/7/19	Sun 17/11/19	0 days	5 days	195								
99	Submit & endorse by PM	17 days 17 days	0 days	100%	Wed 20/11/19	Fri 6/12/19	Wed 20/11/19	Fri 6/12/19	Wed 20/11/19	Fri 6/12/19	0 days	3 days	198								
0	Submit & endorse by Statutory Authorities/Gov. Dept	45 days 45 days	0 days	100%	Fri 24/1/20	Wed 18/3/20	Fri 24/1/20	Wed 18/3/20	Fri 24/1/20	Wed 18/3/20	0 days	1 days	198								
)1	Prepare DDA for and ICE certification (Include P02-BP2 Remedial Pile)	105 days 75 days	30 days	71%	Mon 9/3/20	Sun 21/6/20	Mon 9/3/20	NA	Mon 9/3/20	Wed 19/8/20	59 days	1 days	200								
)2	(Contractor Bear DDA Approval Risk)  Submit & endorse by PM and Statutory Authorities/Gov. Dept (Contractor Bear	50 days 0 days	50 days	0%	Mon 22/6/20	Mon 10/8/20	NA	NA	Thu 20/8/20	Thu 8/10/20	59 days	1 days	201	-							
)3	DDA Approval Risk) D3 Bridge Superstructure	728 days 370.67 days	357.33 days	0%	Thu 30/5/19	Wed 26/5/21	Thu 30/5/19	NA	Thu 30/5/19	Wed 21/7/21	56 days										
)4	Prepare AIP and ICE certification (Draft)	101 days 101 days	0 days	100%	Thu 30/5/19	Sat 7/9/19	Thu 30/5/19		Thu 30/5/19	Sat 7/9/19	0 days	1 day									
)5	Submit & endorse by PM and Statutory Authorities/Gov. Dept	19 days 19 days		100%	Mon 9/9/19	Fri 27/9/19		Fri 27/9/19		Fri 27/9/19			204								
			0 days																		
)6	Prepare AIP and ICE certification (Final)	135 days 135 days	0 days	100%	Wed 20/11/19			Thu 2/4/20		Thu 2/4/20			205								
)7	Prepare DDA and ICE certification (Draft)	222 days 222 days	0 days	100%	Fri 19/7/19	Tue 25/2/20		Tue 25/2/20		Tue 25/2/20	0 days	3 days	205								
)8	Submit & endorse by PM	23 days 23 days	0 days	100%	Wed 26/2/20	Thu 19/3/20	Wed 26/2/20	Thu 19/3/20	Wed 26/2/20	Thu 19/3/20	0 days	2 days	207								
)9	Submit & endorse by Statutory Authorities/Gov. Dept	50 days 0 days	50 days	0%	Mon 29/6/20	Mon 17/8/20	NA	NA	Thu 16/7/20	Thu 3/9/20	17 days	2 days	207,206FF+12	d   T	P						
10	Prepare DDA for and ICE certification (Final)	21 days 0 days	21 days	0%	Tue 18/8/20	Mon 7/9/20	NA	NA	Fri 4/9/20	Thu 24/9/20	17 days	1 days	208,206,209								
11	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days 0 days	50 days	0%	Tue 8/9/20	Tue 27/10/20	NA	NA	Fri 25/9/20	Fri 13/11/20	17 days	2 days	210			+					
12	Prepare AIP (E&M works) and ICE certification (Draft)	32 days 0 days	32 days	0%	Thu 2/7/20	Sun 2/8/20	NA	NA	Thu 27/8/20	Sun 27/9/20	56 days	2 days									
13	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days 0 days	62 days	0%	Mon 3/8/20	Sat 3/10/20	NA	NA	Mon 28/9/20	Sat 28/11/20	56 days	2 days	212								
14	Prepare AIP (E&M works) and ICE certification (Final)	32 days 0 days	32 days	0%	Sun 4/10/20	Wed 4/11/20	NA	NA	Sun 29/11/20	Wed 30/12/20	56 days	2 days	213								
5	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days 0 days	62 days	0%	Thu 5/11/20	Tue 5/1/21			Thu 31/12/20	Tue 2/3/21	56 days		214								
6	Prepare DDA (E&M works) and ICE certification (Draft)	32 days 0 days	32 days	0%	Sat 5/12/20		NA		Sat 30/1/21	Tue 2/3/21	56 days		215FF								
				0%										_		Щ					
17	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days 0 days	62 days		Wed 6/1/21	Mon 8/3/21			Wed 3/3/21	Mon 3/5/21	56 days		216								
18	Prepare DDA (E&M works) and ICE certification (Final)	17 days 0 days	17 days	0%	Tue 9/3/21	Thu 25/3/21		NA	Tue 4/5/21	Thu 20/5/21	56 days		217								
19	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days 0 days	62 days	0%	Fri 26/3/21	Wed 26/5/21	NA	NA	Fri 21/5/21	Wed 21/7/21	56 days	2 days	218								
le: R	ev.11 Prog with Progress	Summary		Inactive Mi	ilestone $\Diamond$		Duration-or	nly		Start-only		С	Ex	temal Mileston	e		Critical Spli	t			
	2-May-20	Project Summary		Inactive Su				mmary Rollup		Finish-only		3		adline	•		Progress				
	Milestone ♦	Inactive Task		Manual Tas	SK.		Manual Sur	nmary		External Task	S		Cri	itical			Manual Pro	gress			

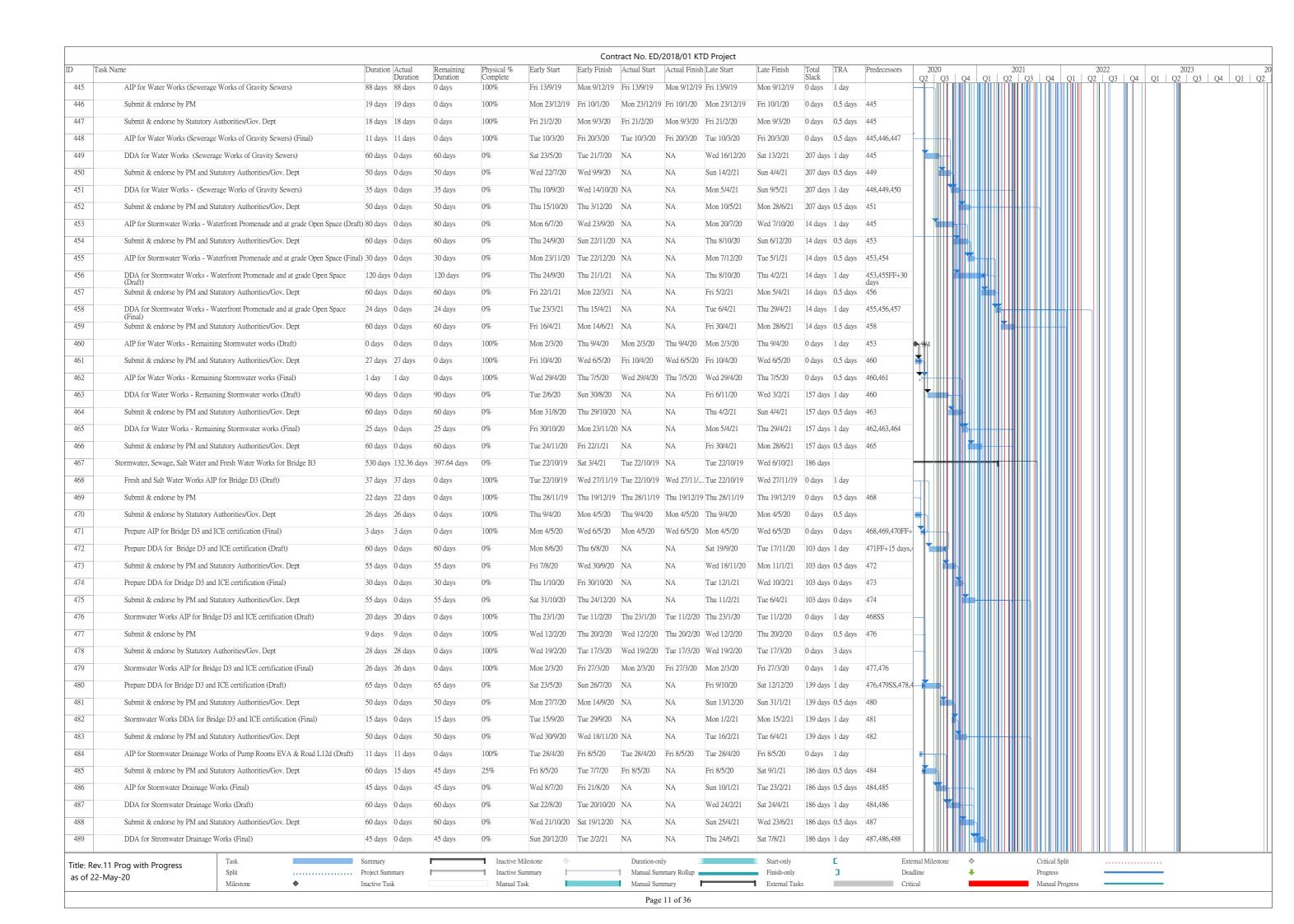
						Con	tract No. ED,	/2018/01 KT	TD Project															
-	Task Name	Duration Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	2020	O3   (	M . C	2	021	04	01   02	2022	04 01	2023 Q2   Q3	04 0
20	D3 North Approach Ramp (Structure)	398 days 348.95 days		0%	Mon 3/6/19	Sat 4/7/20	Mon 3/6/19	NA	Mon 3/6/19	Thu 8/10/20	96 days			Q2		24   Q.			Q4 (	21   Q2	2   Q3	Q4 Q1	Q2   Q3	Q4   Q
21	Prepare AIP and ICE certification (Draft))	51 days 51 days	0 days	100%	Mon 3/6/19	Tue 23/7/19	Mon 3/6/19	Tue 23/7/19	Mon 3/6/19	Tue 23/7/19	0 days	3 days	4											
22	Submit & endorse by PM and Statutory Authorities/Gov. Dept	100 days 100 days	0 days	100%	Thu 25/7/19	Fri 1/11/19	Thu 25/7/19	Fri 1/11/19	Thu 25/7/19	Fri 1/11/19	0 days	1 days	221											
23	Prepare AIP and ICE certification (Final)	14 days 14 days	0 days	100%	Tue 6/8/19	Thu 19/12/19	Tue 6/8/19	Thu 19/12/19	9 Tue 6/8/19	Thu 19/12/19	0 days	0 days	221,222											
24	Prepare DDA (Draft) with ICE certification	66 days 66 days	0 days	100%	Fri 19/7/19	Thu 20/2/20	Fri 19/7/19	Thu 20/2/20	Fri 19/7/19	Thu 20/2/20	0 days	5 days	221,223FF											
25	Submit & endorse by PM/Statutory Authorities/Gov. Dept	31 days 31 days	0 days	100%	Mon 20/1/20	Mon 23/3/20	Mon 20/1/20	Mon 23/3/20	Mon 20/1/20	Mon 23/3/20	0 days	3 days	224											
26	Prepare DDA for and ICE certification (Final)	45 days 45 days	0 days	100%	Wed 1/4/20	Fri 15/5/20	Wed 1/4/20	Fri 15/5/20	Wed 1/4/20	Fri 15/5/20	0 days		225											
27	Submit & endorse by PM/Statutory Authorities/Gov. Dept	50 days 6 days	44 days	12%	Sat 16/5/20	Sat 4/7/20	Sat 16/5/20	NA	Sat 16/5/20	Thu 8/10/20	96 days	0.5 days	226			ЦШ								
28	D3 North Approach Ramp (E&M Works)	329 days 0 days	329 days	0%	Thu 2/7/20	Wed 26/5/21	NA	NA	Fri 27/11/20	Thu 21/10/21	148 days			1										
29	Prepare AIP (E&M works) and ICE certification (Draft)	32 days 0 days	32 days	0%	Thu 2/7/20		NA	NA	Fri 27/11/20	Mon 28/12/20		2 davs												
30	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days 0 days	62 days	0%	Mon 3/8/20		NA	NA	Tue 29/12/20	Sun 28/2/21	148 days		229											
31	Prepare AIP (E&M works) and ICE certification (Final)	32 days 0 days	32 days	0%	Sun 4/10/20	Wed 4/11/20		NA	Mon 1/3/21	Thu 1/4/21	148 days		230		$\prod rac{1}{4}$									
32	Submit & endorse by PM and Statutory Authorities/Gov. Dept			0%	Thu 5/11/20		NA	NA	Fri 2/4/21	Wed 2/6/21		_	231											
33		62 days 0 days	62 days	0%					Sun 2/5/21		148 days													
	Prepare DDA (E&M works) and ICE certification (Draft)	32 days 0 days	32 days		Sat 5/12/20	Tue 5/1/21	NA	NA		Wed 2/6/21	148 days		232FF											
34	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days 0 days	62 days	0%	Wed 6/1/21	Mon 8/3/21		NA	Thu 3/6/21	Tue 3/8/21	148 days		233											
35	Prepare DDA (E&M works) and ICE certification (Final)	17 days 0 days	17 days	0%	Tue 9/3/21	Thu 25/3/21		NA	Wed 4/8/21	Fri 20/8/21	148 days		234											
36	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days 0 days	62 days	0%	Fri 26/3/21	Wed 26/5/21	NA	NA	Sat 21/8/21	Thu 21/10/21	148 days	2 days	235											
37	D3 South Approach Ramp	507 days 322.64 days	184.36 days	0%	Thu 30/5/19	Sat 17/10/20	Thu 30/5/19	NA	Thu 30/5/19	Tue 16/2/21	122 days													
38	Prepare AIP and ICE certification (Draft)	96 days 96 days	0 days	100%	Thu 30/5/19	Mon 2/9/19	Thu 30/5/19	Mon 2/9/19	Thu 30/5/19	Mon 2/9/19	0 days	3 days												
39	Submit & endorse by PM and Statutory Authorities/Gov. Dept	35 days 35 days	0 days	100%	Wed 25/9/19	Tue 29/10/19	Wed 25/9/19	Tue 29/10/19	Wed 25/9/19	Tue 29/10/19	0 days	1 day	238											
10	Prepare AIP Submission (Final)	76 days 76 days	0 days	100%	Fri 7/2/20	Mon 4/5/20	Fri 7/2/20	Mon 4/5/20	Fri 7/2/20	Mon 4/5/20	0 days	1 day	238,239	┋┩										
41	Prepare DDA and ICE certification (Draft)	50 days 50 days	0 days	100%	Wed 1/4/20	Wed 20/5/20	Wed 1/4/20	Wed 20/5/20	Wed 1/4/20	Wed 20/5/20	0 days	5 days	240FF+15 days											
42	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days 2 days	58 days	3%	Thu 21/5/20	Sun 19/7/20	Thu 21/5/20	NA	Thu 21/5/20	Wed 18/11/20	122 days	1 day	238,241											
43	Prepare DDA for and ICE certification (Final)	30 days 0 days	30 days	0%	Mon 20/7/20	Tue 18/8/20	NA	NA	Thu 19/11/20	Fri 18/12/20	122 days	1 day	242,240FF+12	d										
44	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days 0 days	60 days	0%	Wed 19/8/20	Sat 17/10/20	NA	NA	Sat 19/12/20	Tue 16/2/21	122 days	1 day	243											
45	D3 South Approach Ramp (E&M Works)	392 days 0 days	392 days	0%	Sat 23/5/20	Fri 18/6/21	NA	NA	Wed 18/11/20	Tue 14/12/21	179 days							ı						
46	Prepare AIP (E&M works) and ICE certification (Draft)	31 days 0 days	31 days	0%	Sat 23/5/20	Mon 22/6/20	NA	NA	Wed 18/11/20	Fri 18/12/20	179 days	1 day												
47	Submit & endorse by PM and Statutory Authorities/Gov. Dept	76 days 0 days	76 days	0%	Tue 23/6/20	Sun 6/9/20	NA	NA	Sat 19/12/20	Thu 4/3/21	179 days	1 day	246		-									
48	Prepare AIP (E&M works) and ICE certification (Final)	31 days 0 days	31 days	0%	Mon 7/9/20	Wed 7/10/20	NA	NA	Fri 5/3/21	Sun 4/4/21	179 days	1 day	247											
49	Submit & endorse by PM and Statutory Authorities/Gov. Dept	76 days 0 days	76 days	0%	Thu 8/10/20	Tue 22/12/20	NA	NA	Mon 5/4/21	Sat 19/6/21	179 days	1 day	248											
50	Prepare DDA (E&M works) and ICE certification (Draft)	31 days 0 days	31 days	0%	Sun 22/11/20	Tue 22/12/20	NA	NA	Thu 20/5/21	Sat 19/6/21	179 days		249FF											
51	Submit & endorse by PM and Statutory Authorities/Gov. Dept	76 days 0 days	76 days	0%		Mon 8/3/21		NA	Sun 20/6/21	Fri 3/9/21	179 days		250											
52	Prepare DDA (E&M works) and ICE certification (Final)	26 days 0 days	26 days	0%	Tue 9/3/21	Sat 3/4/21	NA	NA	Sat 4/9/21	Wed 29/9/21	179 days		251											
53	Submit & endorse by PM and Statutory Authorities/Gov. Dept	76 days 0 days	76 days	0%	Sun 4/4/21		NA	NA	Thu 30/9/21	Tue 14/12/21	179 days		252											
54	Road D3 Underpass and Depressed Road	823 days 236.99 days		0%	Thu 30/5/19	Sun 29/8/21	Thu 30/5/19		Thu 30/5/19	Wed 11/1/23			232											
55	Underpass (Structure)	486 days 320.41 days		100%	Thu 30/5/19	Sat 26/9/20	Thu 30/5/19		Thu 30/5/19	Wed 2/12/20	67 days	2 d	4											
56	Prepare AIP and ICE certification (Draft)	96 days 96 days	0 days	100%	Thu 30/5/19		Thu 30/5/19			Mon 2/9/19	0 days	-	256											
57	Submit & endorse by PM and Statutory Authorities/Gov. Dept	17 days 17 days	0 days	100%	Tue 3/9/19	Thu 19/9/19		Thu 19/9/19		Thu 19/9/19		1 days	256											
58	Prepare AIP and ICE certification (Final)	84 days 84 days	0 days	100%	Tue 14/1/20	Mon 6/4/20		Mon 6/4/20		Mon 6/4/20		2 days	256,257											
59	Prepare DDA (Draft) Preparation	156 days 156 days	0 days	100%	Tue 3/9/19	Wed 5/2/20	Tue 3/9/19	Wed 5/2/20		Wed 5/2/20		3 days	256											
50	DDA (Draft) Submit & endorse by PM & Statutory Authorities/Gov. Dept	169 days 34 days	135 days	20%	Thu 6/2/20	Thu 23/7/20	Thu 6/2/20	NA	Thu 6/2/20	Mon 28/9/20	67 days		259											
51	Prepare DDA for and ICE certification (Final)	15 days 0 days	15 days	0%	Fri 24/7/20	Fri 7/8/20	NA	NA	Tue 29/9/20	Tue 13/10/20	67 days	1 day	260,258FF+21	d										
62	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days 0 days	50 days	0%	Sat 8/8/20	Sat 26/9/20	NA	NA	Wed 14/10/20	Wed 2/12/20	67 days	1 day	261	1										
63	Underpass (E&M Works)	392 days 0 days	392 days	0%	Mon 3/8/20	Sun 29/8/21	NA	NA	Tue 10/11/20	Wed 11/1/23	99 days							<del>-   </del>						
264	Prepare AIP (E&M works) and ICE certification (Draft)	32 days 0 days	32 days	0%	Mon 5/10/20	Thu 5/11/20	NA	NA	Tue 10/11/20	Fri 11/12/20	36 days	2 days		1										
	Task	Summary		Inactive M	filestone 🗅	1	Duration-or	nlv		Start-only			Fyt	temal Milest	one	<b>♦</b>	11111111	Crit	tical Split	1(11111				
	ev.11 Prog with Progress 2-May-20 Split	Project Summary		Inactive S				mmary Rollup		Finish-only		3		adline		•			gress					
	Milestone •	Inactive Task		Manual Ta	ask		Manual Sur	mmary I		External Tas	sks		Cri	tical				Ma	nual Prog	ress				

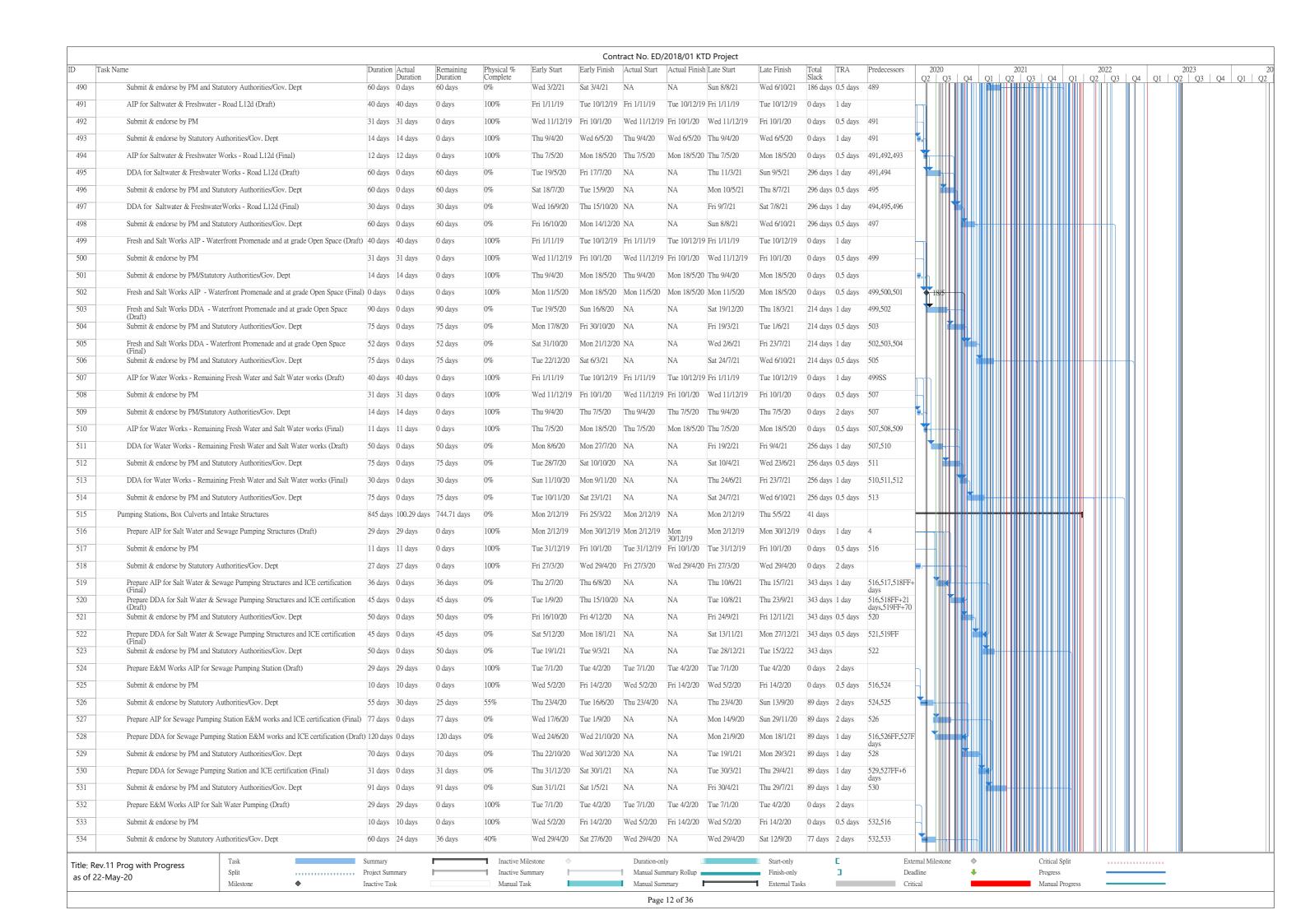
								tract No. ED/														
Task Na	ame	Duration	n Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	h Late Start	Late Finish	Total T Slack	RA Pred		2020   Q3	04 01		)21   Q3   (	04 01	202	2 Q3   Q4	Ω1
55	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Fri 6/11/20	Wed 6/1/21	NA	NA	Sat 12/12/20	Thu 11/2/21	36 days 2	days 264	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		7 1 1			Ž, Q1	Q2	2	1 41
66	Prepare AIP (E&M works) and ICE certification (Final)	32 days	0 days	32 days	0%	Thu 7/1/21	Sun 7/2/21	NA	NA	Fri 12/2/21	Mon 15/3/21	36 days 2	days 265									
57	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Mon 8/2/21	Sat 10/4/21	NA	NA	Tue 16/3/21	Sun 16/5/21	36 days 2	days 266									
8	Prepare DDA (E&M works) and ICE certification (Draft)	32 days	0 days	32 days	0%	Wed 10/3/21	Sat 10/4/21	NA	NA	Thu 15/4/21	Sun 16/5/21	36 days 2	days 267F	F								
i9	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Sun 11/4/21	Fri 11/6/21	NA	NA	Mon 17/5/21	Sat 17/7/21	36 days 2	days 268									
0	Prepare DDA (E&M works) and ICE certification (Final)	17 days		17 days	0%	Sat 12/6/21	Mon 28/6/21	NA	NA	Sun 18/7/21	Tue 3/8/21	36 days 2										
1	Submit & endorse by PM and Statutory Authorities/Gov. Dept		0 days	62 days	0%	Tue 29/6/21	Sun 29/8/21		NA	Wed 4/8/21	Mon 4/10/21	36 days 2						$\downarrow \downarrow \downarrow \mid \mid \mid$				
2	Prepare AIP (E&M works) and Architectural Finishes of of Underpass (Road L14) and ICE certification (Draft)	31 days		31 days	0%	Mon 3/8/20	Wed 2/9/20		NA	Thu 31/3/22	Sat 30/4/22	605 days 1										
73	Submit & endorse by PM and Statutory Authorities/Gov. Dept		0 days	51 days	0%	Thu 3/9/20	Fri 23/10/20		NA	Sun 1/5/22	Mon 20/6/22	605 days 1				1						
4	Prepare AIP (E&M works )and Architectural Finishes of of Underpass (Road L14) and ICE certification (Final)	14 days	0 days	14 days	0%	Sat 24/10/20	Fri 6/11/20	NA	NA	Tue 21/6/22	Mon 4/7/22	605 days 2	days 273									
5	Submit & endorse by PM and Statutory Authorities/Gov. Dept	74 days	0 days	74 days	0%	Sat 7/11/20	Tue 19/1/21	NA	NA	Tue 5/7/22	Fri 16/9/22	605 days 1	day 274									
6	Prepare DDA (E&M works) and Architectural Finishes of of Underpass (Road L14) and ICE certification (Draft)	31 days	0 days	31 days	0%	Sun 20/12/20	Tue 19/1/21	NA	NA	Wed 17/8/22	Fri 16/9/22	605 days 1	day 275F	F		<del>     </del>						
7	Submit & endorse by PM and Statutory Authorities/Gov. Dept	51 days	0 days	51 days	0%	Wed 20/1/21	Thu 11/3/21	NA	NA	Sat 17/9/22	Sun 6/11/22	605 days 1	day 276			Y						
8	Prepare DDA (E&M works) and Architectural Finishes of of Underpass (Road	15 days	0 days	15 days	0%	Fri 12/3/21	Fri 26/3/21	NA	NA	Mon 7/11/22	Mon 21/11/22	605 days 1	day 277				4					
9	L14) and ICE certification (Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept	51 days	0 days	51 days	0%	Sat 27/3/21	Sun 16/5/21	NA	NA	Tue 22/11/22	Wed 11/1/23	605 days 1	day 278									٦
30	E&M Work for Pump House of Underpass D3	364 days	s 83.71 days	280.29 days	0%	Mon 24/2/20	Sun 21/2/21	Mon 24/2/20	NA	Mon 24/2/20	Wed 18/8/21	178 days										
1	Prepare AIP (E&M works) Submission (Draft)		11 days	0 days	0%	Mon 24/2/20	Thu 5/3/20			Mon 24/2/20	Thu 5/3/20	0 days 2	days			Ī						
12	Submit & endorse by PM and Statutory Authorities/Gov. Dept		s 78 days	82 days	49%	Fri 6/3/20	Wed 12/8/20		NA	Fri 6/3/20	Sat 15/8/20				ШП							
												-		(AFE, 10.1								
13	Prepare AIP (E&M works) and ICE certification (Final)		0 days	21 days	0%	Thu 13/8/20	Wed 2/9/20		NA	Sun 16/8/20	Sat 5/9/20	1		14FF+12 da;								
4	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Thu 3/9/20	Thu 22/10/20	) NA	NA	Sun 6/9/20	Sun 25/10/20	3 days 2	days 283									
5	Prepare DDA (E&M works) and ICE certification (Draft)	30 days	0 days	30 days	0%	Wed 30/9/20	Thu 29/10/20	NA NA	NA	Sat 3/10/20	Sun 1/11/20	3 days 2	days 284F	F+7 days								
5	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Fri 30/10/20	Fri 18/12/20	NA	NA	Mon 2/11/20	Mon 21/12/20	3 days 2	days 285									
7	Prepare DDA (E&M works) and ICE certification (Final)	15 days	0 days	15 days	0%	Sat 19/12/20	Sat 2/1/21	NA	NA	Tue 22/12/20	Tue 5/1/21	3 days 2	days 286									
3	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Sun 3/1/21	Sun 21/2/21	NA	NA	Wed 30/6/21	Wed 18/8/21	178 days 2	days 287				+					
9 [	Depressed Road (North) Structure	463 days	s 335.18 days	127.82 days	0%	Thu 16/5/19	Thu 20/8/20	Thu 16/5/19	NA	Thu 16/5/19	Thu 11/5/23	994 days										
0	Prepare AIP and ICE certification (Draft)	65 days	65 days	0 days	100%	Thu 16/5/19	Fri 2/8/19	Thu 16/5/19	Fri 2/8/19	Thu 16/5/19	Fri 2/8/19	0 days 1	days 4									
1	Submit & endorse by PM and Statutory Authorities/Gov. Dept	33 days	33 days	0 days	100%	Sat 3/8/19	Wed 4/9/19	Sat 3/8/19	Wed 4/9/19	Sat 3/8/19	Wed 4/9/19	0 days 2	days 290									
2	Prepare AIP and ICE certification (Final)		44 days	0 days	100%	Mon 9/12/19	Tue 21/1/20	Mon 9/12/19	Tue 21/1/20	Mon 9/12/19	Tue 21/1/20	0 days 0	days 291									
3	Prepare DDA and ICE certification (Draft)		57 days	0 days	100%	Tue 24/9/19		Tue 24/9/19			Tue 19/11/19	-	days 290									
												1										
14	Submit & endorse by PM		17 days	0 days	100%	Tue 19/11/19		Tue 19/11/19			Thu 5/12/19		day 293									
15	Submit & endorse by Statutory Authorities/Gov. Dept	20 days	20 days	0 days	100%	Wed 19/2/20	Mon 9/3/20	Wed 19/2/20			Mon 9/3/20	-	day 293									
16	Prepare DDA for and ICE certification (Final)	30 days	0 days	30 days	0%	Sat 23/5/20	Sun 21/6/20	NA	NA	Sat 11/2/23	Sun 12/3/23	994 days 3	days 294,	292FF,295								
7	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Mon 22/6/20	Thu 20/8/20	NA	NA	Mon 13/3/23	Thu 11/5/23	994 days 5	days 296									
8 I	Depressed Road (North) E&M Works	322 days	s 0 days	322 days	0%	Mon 21/9/20	Sun 8/8/21	NA	NA	Tue 17/11/20	Mon 4/10/21	57 days						+				
19	Prepare AIP (E&M works) and ICE certification (Draft)	31 days	0 days	31 days	0%	Mon 21/9/20	Wed 21/10/20	0 NA	NA	Tue 17/11/20	Thu 17/12/20	57 days 1	day			<b>.</b>						
00	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Thu 22/10/20	Mon 21/12/20	0 NA	NA	Fri 18/12/20	Tue 16/2/21	57 days 1	day 299									
)1	Prepare AIP (E&M works) and ICE certification (Final)	31 days	0 days	31 days	0%	Tue 22/12/20	Thu 21/1/21	NA	NA	Wed 17/2/21	Fri 19/3/21	57 days 1	day 300									
2	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Fri 22/1/21	Tue 23/3/21	NA	NA	Sat 20/3/21	Wed 19/5/21	57 days 1	day 301									
)3	Prepare DDA (E&M works) and ICE certification (Draft)	31 days		31 days	0%	Sun 21/2/21	Tue 23/3/21		NA	Mon 19/4/21	Wed 19/5/21	57 days 1		F								
14	Submit & endorse by PM and Statutory Authorities/Gov. Dept		0 days	61 days	0%	Wed 24/3/21	Sun 23/5/21		NA	Thu 20/5/21	Mon 19/7/21	57 days 1										
)5	Prepare DDA (E&M works) and ICE certification (Final)	16 days		16 days	0%	Mon 24/5/21	Tue 8/6/21		NA	Tue 20/7/21	Wed 4/8/21	57 days 1	-									
16	Submit & endorse by PM and Statutory Authorities/Gov. Dept		0 days	61 days	0%	Wed 9/6/21		NA	NA	Thu 5/8/21	Mon 4/10/21	57 days 1	day 305									
)7 I	Depressed Road (South) and Substructure of Elevated Landscape Deck	463 days	s 333.16 days	129.84 days	0%	Mon 10/6/19	Mon 14/9/20	Mon 10/6/19	NA	Mon 10/6/19	Thu 15/10/20	31 days										
18	Prepare AIP and ICE certification (Draft)	54 days	54 days	0 days	100%	Mon 10/6/19	Fri 2/8/19	Mon 10/6/19	Fri 2/8/19	Mon 10/6/19	Fri 2/8/19	0 days 1	days									
19	Submit & endorse by PM and Statutory Authorities/Gov. Dept	81 days	81 days	0 days	100%	Sat 3/8/19	Tue 22/10/19	Sat 3/8/19	Tue 22/10/19	9 Sat 3/8/19	Tue 22/10/19	0 days 2	days 308									
. D	Task	Summary	1		Inactive M	filestone $\Diamond$		Duration-or	nly		Start-only	Г		External N	[ilestone	<b>│                                    </b>	111111111111	Criti	tical Split	<u> </u>		Ш
e: Rev.11 P of 22-May	Prog with Progress Split	Project Sur	mmary		Inactive S				mmary Rollup		Finish-only		1	Deadline		•			gress			
VI CC-IVIDV	/-20 Milestone ♦	Inactive Ta	-1-		Manual Ta			Manual Sur			External Tas	alas III		Critical					nual Progre	ee <b>-</b>		

							Con	tract No. ED/	2018/01 K	TD Project															
Task	Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finis	h Late Start	Late Finish	Total TRA Slack	Predecessors 20		04	01   4	2021	13   04	01	20	022	04	01   1	2023 02   Q3	
10	Prepare AIP and ICE (certification (Final)	270 days	s 222 days	48 days	82%	Tue 15/10/19	Fri 10/7/20	Tue 15/10/19	NA	Tue 15/10/19	Mon 10/8/20	31 days 0 days	309,44FF+12 da		Q4						L Q3		QI		
11	Prepare DDA certification (Draft)	27 days	27 days	0 days	100%	Mon 10/2/20	Sat 7/3/20	Mon 10/2/20	Sat 7/3/20	Mon 10/2/20	Sat 7/3/20	0 days 5 days	308							(1 11					
312	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	24 days	51 days	32%	Wed 29/4/20	Thu 16/7/20	Wed 29/4/20	NA	Wed 29/4/20	Sun 16/8/20	31 days 1 days	311,310FF+6							(1 11					
313	Prepare DDA for and ICE certification (Final)	10 days	0 days	10 days	0%	Fri 17/7/20	Sun 26/7/20	NA	NA	Mon 17/8/20	Wed 26/8/20	31 days 0.5 days	312	K						(1 11					
314	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Mon 27/7/20	Mon 14/9/20	NA	NA	Thu 27/8/20	Thu 15/10/20	31 days 0.5 days	313							(1 11					
315	South Depressed Road (E&M Works)	382 days	0 days	382 days	0%	Mon 7/9/20	Thu 23/9/21	NA	NA	Fri 18/9/20	Mon 4/10/21	11 days						<b>-</b> 1							
316	Prepare AIP (E&M works) and ICE certification (Draft)	31 days	0 days	31 days	0%	Mon 7/9/20	Wed 7/10/20	NA	NA	Fri 18/9/20	Sun 18/10/20	11 days 1 day			F.					(1 11					
317	Submit & endorse by PM and Statutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Thu 8/10/20	Tue 22/12/20	NA	NA	Mon 19/10/20	Sat 2/1/21	11 days 1 day	316												
318	Prepare AIP (E&M works) and ICE certification (Final)	31 days	0 days	31 days	0%	Wed 23/12/20	Fri 22/1/21	NA	NA	Sun 3/1/21	Tue 2/2/21	11 days 1 day	317												
19	Submit & endorse by PM and Statutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Sat 23/1/21	Thu 8/4/21	NA	NA	Wed 3/2/21	Mon 19/4/21	11 days 1 day	318												
320	Prepare DDA (E&M works) and ICE certification (Draft)	31 days	0 days	31 days	0%	Tue 9/3/21	Thu 8/4/21	NA	NA	Sat 20/3/21	Mon 19/4/21	11 days 1 day	319FF							(1 11					
21	Submit & endorse by PM and Statutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Fri 9/4/21	Wed 23/6/21	NA	NA	Tue 20/4/21	Sun 4/7/21	11 days 1 day	320							(1 1					
22	Prepare DDA (E&M works) and ICE certification (Final)	16 days	0 days	16 days	0%	Thu 24/6/21	Fri 9/7/21	NA	NA	Mon 5/7/21	Tue 20/7/21	11 days 1 day	321							(1 1					
23	Submit & endorse by PM and Statutory Authorities/Gov. Dept	76 days		76 days	0%	Sat 10/7/21	Thu 23/9/21		NA	Wed 21/7/21	Mon 4/10/21	11 days 1 day	322												
24	Road Works (Civil Works)			465.99 days	0%	Tue 13/8/19	Fri 4/6/21	Tue 13/8/19		Tue 13/8/19	Tue 14/12/21	193 days				Щ	ЩП								
25	Prepare AIP for At-grade Road D3 and ICE certification (Draft)		57 days	0 days	100%	Tue 13/8/19	Tue 8/10/19			Tue 13/8/19	Tue 8/10/19	0 days 1 day	293SS+75 days												
26	Submit & endorse by PM			0 days	100%	Wed 9/10/19		Wed 9/10/19			Tue 29/10/19									(1 1					
	·		21 days																	(1 1					
27	Submit & endorse by Statutory Authorities/Gov. Dept		24 days	0 days	100%	Wed 30/10/19				Wed 30/10/19	Fri 22/11/19	0 days 1 day	325												
28	Prepare AIP for At-grade Road D3 and ICE certification (Final)		57 days	0 days	100%	Thu 5/3/20	Mon 4/5/20	Thu 5/3/20	Mon 4/5/20		Mon 4/5/20	0 days 0 days	326FS+12 days,327,44FF+1							(1 1					
29	Prepare DDA for At-grade Road D3 and ICE certification (Draft)	210 days		210 days	0%	Sat 23/5/20	Fri 18/12/20		NA	Wed 2/12/20	Tue 29/6/21	193 days 5 days	days,328FF+6		111					(1 1					
30	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	-	75 days	0%	Sat 19/12/20	Wed 3/3/21		NA	Wed 30/6/21	Sun 12/9/21	193 days 0.5 days													
331	Prepare DDA for At-grade Road D3 and ICE certification (Final)	16 days	0 days	16 days	0%	Thu 4/3/21	Fri 19/3/21	NA	NA	Mon 13/9/21	Tue 28/9/21	193 days 1 day	330												
32	Submit & endorse by PM and Statutory Authorities/Gov. Dept	77 days	0 days	77 days	0%	Sat 20/3/21	Fri 4/6/21	NA	NA	Wed 29/9/21	Tue 14/12/21	193 days 2 days	331							(1 1					
33	Remaining Road Works (E&M Works)	382 days	0 days	382 days	0%	Mon 5/10/20	Thu 21/10/21	NA	NA	Sat 13/2/21	Tue 1/3/22	131 days			<b>)</b>										
34	Prepare AIP (E&M works) and ICE certification (Draft)	31 days	0 days	31 days	0%	Mon 5/10/20	Wed 4/11/20	NA	NA	Sat 13/2/21	Mon 15/3/21	131 days 1 day													
35	Submit & endorse by PM and Statutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Thu 5/11/20	Tue 19/1/21	NA	NA	Tue 16/3/21	Sun 30/5/21	131 days 1 day	334												
36	Prepare AIP (E&M works) and ICE certification (Final)	31 days	0 days	31 days	0%	Wed 20/1/21	Fri 19/2/21	NA	NA	Mon 31/5/21	Wed 30/6/21	131 days 1 day	335							(1 1					
37	Submit & endorse by PM and Statutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Sat 20/2/21	Thu 6/5/21	NA	NA	Thu 1/7/21	Tue 14/9/21	131 days 1 day	336				+			(1 1					
338	Prepare DDA (E&M works) and ICE certification (Draft)	31 days	0 days	31 days	0%	Tue 6/4/21	Thu 6/5/21	NA	NA	Sun 15/8/21	Tue 14/9/21	131 days 1 day	337FF							(1 1					
339	Submit & endorse by PM and Statutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Fri 7/5/21	Wed 21/7/21	NA	NA	Wed 15/9/21	Mon 29/11/21	131 days 1 day	338							(1 1					
340	Prepare DDA (E&M works) and ICE certification (Final)	16 days	0 days	16 days	0%	Thu 22/7/21	Fri 6/8/21	NA	NA	Tue 30/11/21	Wed 15/12/21	131 days 1 day	339							(1 1					
341	Submit & endorse by PM and Statutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Sat 7/8/21	Thu 21/10/21	NA	NA	Thu 16/12/21	Tue 1/3/22	131 days 1 day	340												
342	Road L12d Works (Roadworks)	791 days	s 261.27 days	529.73 days	0%	Tue 6/8/19	Mon 4/10/21	Tue 6/8/19	NA	Tue 6/8/19	Tue 28/2/23	512 days	<del> </del>							(1 1					
343	Prepare AIP for Road L12d Submission (Draft)	64 days	64 days	0 days	100%	Tue 6/8/19	Tue 8/10/19	Tue 6/8/19	Tue 8/10/19	Tue 6/8/19	Tue 8/10/19	0 days 1 day	325												
44	Submit & endorse by PM and Statutory Authorities/Gov. Dept	377 days	227 days	150 days	60%	Wed 9/10/19	Mon 19/10/20	0 Wed 9/10/19	NA	Wed 9/10/19	Tue 15/3/22	512 days													
45		120 days	0 days	120 days	0%	Tue 20/10/20	Tue 16/2/21	NA	NA	Wed 16/3/22	Wed 13/7/22	512 days 0 days	343,44FF+12			4									
346	(Final) Prepare DDA for Road L12d (Include E&M Provision Works) and ICE certification	n 120 days	o days	120 days	0%	Thu 19/11/20	Thu 18/3/21	NA	NA	Fri 15/4/22	Fri 12/8/22	512 days 1 day	days,344 343FS+260												
347	(Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Fri 19/3/21	Tue 1/6/21	NA	NA	Sat 13/8/22		512 days 0.5 days	days,345FF+30 346												
348	Prepare DDA for Road L12d (Include E&M Provision Works) and ICE certification			50 days	0%	Wed 2/6/21	Wed 21/7/21	NA	NA	Thu 27/10/22		512 days 0 days	347,345FF												
49	(Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	-	75 days	0%	Thu 22/7/21	Mon 4/10/21		NA	Fri 16/12/22	Tue 28/2/23	512 days 0 days													
50	Road Lighting of Road D3 (E&M)			339.81 days	0%	Mon 6/1/20	Sun 18/4/21	Mon 6/1/20		Mon 6/1/20	Sun 1/8/21	105 days				Щ,									
351	Prepare AIP (E&M works) Submission (Draft)		30 days	0 days	100%	Mon 6/1/20	Tue 4/2/20		Tue 4/2/20	Mon 6/1/20	Tue 4/2/20	0 days 2 days													
352	Submit & endorse by Statutory Authorities/Gov. Dept and PM		s 108 days	82 days	57%	Wed 5/2/20		Wed 5/2/20		Wed 5/2/20	Wed 25/11/20		351												
353	Prepare AIP (E&M works) and ICE certification (Final)	32 days		32 days	0%	Thu 13/8/20	Sun 13/9/20		NA NA	Thu 26/11/20	Sun 27/12/20														
354	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	o days	60 days	0%	Mon 14/9/20	Thu 12/11/20	INA	NA	Mon 28/12/20	Thu 25/2/21	105 days 2 days	353												
itle: Rev.1	1 Prog With Progress	Summary			Inactive Mi			Duration-on	-		Start-only	E	External Mile	estone	<b>♦</b>			Critica							
s of 22-N	Split Split Milestone ◆	Project Sun Inactive Ta			Inactive Su  Manual Tas			Manual Sun  Manual Sun	nmary Rollup		Finish-only  External Tasl	]	Deadline Critical		*			Progre	ss il Progress	c					

Task								tract No. ED,														
Task	x Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finis	h Late Start	Late Finish	Total TRA Slack	Predecessors	2020 Q2	Q3   Q4	Q1   Q	2021 2   Q3	Q4 C		22   Q3   Q4	Q1   Q2	23 O3
355	Prepare DDA (E&M works) and ICE certification (Draft)	32 days		32 days	0%	Mon 12/10/20	Thu 12/11/20	NA	NA	Mon 25/1/21	Thu 25/2/21	105 days 2 days	354FF									_ ₹2
356	Submit & endorse by PM and Statutory Authorities/Gov. Dept	77 days	0 days	77 days	0%	Fri 13/11/20	Thu 28/1/21	NA	NA	Fri 26/2/21	Thu 13/5/21	105 days 2 days	355									
357	Prepare DDA (E&M works) and ICE certification (Final)	3 days	0 days	3 days	0%	Fri 29/1/21	Sun 31/1/21	NA	NA	Fri 14/5/21	Sun 16/5/21	105 days 2 days	356									
358	Submit & endorse by PM and Statutory Authorities/Gov. Dept	77 days	0 days	77 days	0%	Mon 1/2/21	Sun 18/4/21	NA	NA	Mon 17/5/21	Sun 1/8/21	105 days 2 days	357			<b>  Mari</b>						
359	Road L12d Works (E&M Works)	329 days	0 days	329 days	0%	Mon 5/10/20	Sun 29/8/21	NA	NA	Mon 1/2/21	Sun 26/12/21	119 days										
360	Prepare AIP (E&M works) and ICE certification (Draft)	32 days	0 days	32 days	0%	Mon 5/10/20	Thu 5/11/20	NA	NA	Mon 1/2/21	Thu 4/3/21	119 days 2 days										
361	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Fri 6/11/20	Wed 6/1/21	NA	NA	Fri 5/3/21	Wed 5/5/21	119 days 2 days	360									
362	Prepare AIP (E&M works) and ICE certification (Final)	32 days		32 days	0%	Thu 7/1/21	Sun 7/2/21	NA	NA	Thu 6/5/21	Sun 6/6/21	119 days 2 days										
363	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days		62 days	0%	Mon 8/2/21	Sat 10/4/21		NA	Mon 7/6/21	Sat 7/8/21	119 days 2 days										
364	Prepare DDA (E&M works) and ICE certification (Draft)	32 days		32 days	0%	Wed 10/3/21		NA	NA	Wed 7/7/21	Sat 7/8/21	119 days 2 days	363FF									
365																						
	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days		62 days	0%	Sun 11/4/21		NA	NA	Sun 8/8/21	Fri 8/10/21	119 days 2 days										
366	Prepare DDA (E&M works) and ICE certification (Final)	17 days		17 days	0%	Sat 12/6/21	Mon 28/6/21		NA	Sat 9/10/21	Mon 25/10/21											
367	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days		62 days	0%	Tue 29/6/21	Sun 29/8/21		NA	Tue 26/10/21	Sun 26/12/21	119 days 2 days	366							↑		
368	Roadworks other than at-grade Road D3 and Road L12d (Civil Works)	609 days	238.54 days	370.46 days	0%	Mon 2/9/19	Sun 2/5/21	Mon 2/9/19	NA	Mon 2/9/19	Sun 23/5/21	21 days										
369	AIP for Roadworks - Roadworks other than at-grade Road D3 and Road L12d (Draft)	36 days	36 days	0 days	100%	Mon 2/9/19	Mon 7/10/19	Mon 2/9/19	Mon 7/10/19	9 Mon 2/9/19	Mon 7/10/19	0 days 0.5 days	S									
370	Submit & endorse by PM and Statutory Authorities/Gov. Dept	288 days	228 days	60 days	79%	Tue 8/10/19	Tue 21/7/20	Tue 8/10/19	NA	Tue 8/10/19	Tue 11/8/20	21 days 0.5 days	s 369									
371	AIP for Roadworks - Roadworks other than at-grade Road D3 and Road L12d (Final)	75 days	0 days	75 days	0%	Wed 22/7/20	Sun 4/10/20	NA	NA	Wed 12/8/20	Sun 25/10/20	21 days 0.5 days	370,44FF+12									
372	DDA for Roadworks - Roadworks other than at-grade Road D3 and Road L12d	95 days	0 days	95 days	0%	Sat 1/8/20	Tue 3/11/20	NA	NA	Sat 22/8/20	Tue 24/11/20	21 days 1 day	371FF+30 day	ys		_						
373	(Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Wed 4/11/20	Sun 17/1/21	NA	NA	Wed 25/11/20	Sun 7/2/21	21 days 0.5 days	s 372									
374	DDA for Roadworks - Roadworks other than at-grade Road D3 and Road L12d	30 days	0 days	30 days	0%	Mon 18/1/21	Tue 16/2/21	NA	NA	Mon 8/2/21	Tue 9/3/21	21 days 0.5 days	s 371,372,373									
375	(Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Wed 17/2/21	Sun 2/5/21	NA	NA	Wed 10/3/21	Sun 23/5/21	21 days 0.5 days	s 374									
376	Roadworks - EVA to Sewerage and Saltwater Pumping Station (Civil Works)	413 days	s 68.26 days	344.74 days	0%	Wed 4/3/20	Tue 20/4/21	Wed 4/3/20	NA	Wed 4/3/20	Fri 17/2/23	668 days										
377	AIP for Roadworks - EVA to Sewerage and Saltwater Pumping Station (Draft)		46 days	0 days	100%	Wed 4/3/20	Sat 18/4/20	Wed 4/3/20	Sat 18/4/20		Sat 18/4/20	0 days 0.5 days	\$									
378	Submit & endorse by PM and Statutory Authorities/Gov. Dept		33 days	49 days	40%	Sat 18/4/20			NA	Sat 18/4/20	Mon 23/5/22	684 days	377									
379																						
	AIP for Roadworks - EVA to Sewerage and Saltwater Pumping Station (Final)	75 days	-	75 days	0%	Thu 9/7/20	Mon 21/9/20		NA	Tue 24/5/22	Sat 6/8/22	684 days 0.5 days										
380	DDA for Roadworks - EVA to Sewerage and Saltwater Pumping Station (Draft)	95 days		95 days	0%	Mon 20/7/20	Thu 22/10/20		NA	Thu 19/5/22	Sun 21/8/22	668 days 1 day	379FF+15 day	ys								
381	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days		75 days	0%	Fri 23/10/20	Tue 5/1/21		NA	Mon 22/8/22	Fri 4/11/22	668 days 0.5 days										
382	DDA for Roadworks - EVA to Sewerage and Saltwater Pumping Station (Final)	30 days		30 days	0%	Wed 6/1/21	Thu 4/2/21	NA	NA	Sat 5/11/22	Sun 4/12/22	668 days 0.5 days										
383	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Fri 5/2/21	Tue 20/4/21	NA	NA	Mon 5/12/22	Fri 17/2/23	668 days 0.5 days	s 382							h <b>  </b>		
384	Road Lighting of Road other than Road D3 (E&M)	356 days	0 days	356 days	0%	Fri 29/5/20	Wed 19/5/21	NA	NA	Tue 2/6/20	Sun 23/5/21	4 days										
385	Prepare AIP (E&M works) and ICE certification (Draft)	38 days	0 days	38 days	0%	Fri 29/5/20	Sun 5/7/20	NA	NA	Tue 2/6/20	Thu 9/7/20	4 days 2 days										
386	Submit & endorse by PM and Statutory Authorities/Gov. Dept	77 days	0 days	77 days	0%	Mon 6/7/20	Sun 20/9/20	NA	NA	Fri 10/7/20	Thu 24/9/20	4 days 2 days	385									
387	Prepare AIP (E&M works) and ICE certification (Final)	32 days	0 days	32 days	0%	Mon 21/9/20	Thu 22/10/20	NA	NA	Fri 25/9/20	Mon 26/10/20	4 days 2 days	386		i i							
388	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Fri 23/10/20	Wed 23/12/20	NA	NA	Tue 27/10/20	Sun 27/12/20	4 days 2 days	387	$-\parallel\parallel\parallel$		+						
389	Prepare DDA (E&M works) and ICE certification (Draft)	32 days	0 days	32 days	0%	Sun 22/11/20	Wed 23/12/20	) NA	NA	Thu 26/11/20	Sun 27/12/20	4 days 2 days	388FF	$-\parallel\parallel\parallel$								
390	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Thu 24/12/20	Tue 23/2/21	NA	NA	Mon 28/12/20	Sat 27/2/21	4 days 2 days	389	$-\parallel\parallel\parallel$								
391	Prepare DDA (E&M works) and ICE certification (Final)	23 days		23 days	0%	Wed 24/2/21	Thu 18/3/21		NA	Sun 28/2/21	Mon 22/3/21	4 days 2 days		$-\parallel\parallel\parallel$								
392	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days		62 days	0%	Fri 19/3/21	Wed 19/5/21		NA	Tue 23/3/21	Sun 23/5/21	4 days 2 days		$-\parallel\parallel\parallel$								
393	Roadworks other than at-grade Road D3 and Road L12d (E&M Works)	322 days		322 days	0%	Thu 2/7/20	Wed 19/5/21		NA	Mon 6/7/20	Sun 23/5/21	4 days										
														_    [								
394	Prepare AIP (E&M works) and ICE certification (Draft)	31 days		31 days	0%	Thu 2/7/20		NA	NA	Mon 6/7/20	Wed 5/8/20	4 days 1 day	20.1									
395	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days		61 days	0%	Sun 2/8/20	Thu 1/10/20		NA	Thu 6/8/20	Mon 5/10/20	4 days 1 day	394									
396	Prepare AIP (E&M works) and ICE certification (Final)	31 days	0 days	31 days	0%	Fri 2/10/20	Sun 1/11/20	NA	NA	Tue 6/10/20	Thu 5/11/20	4 days 1 day	395									
397	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Mon 2/11/20	Fri 1/1/21	NA	NA	Fri 6/11/20	Tue 5/1/21	4 days 1 day	396									
398	Prepare DDA (E&M works) and ICE certification (Draft)	31 days	0 days	31 days	0%	Wed 2/12/20	Fri 1/1/21	NA	NA	Sun 6/12/20	Tue 5/1/21	4 days 1 day	397FF									
399	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Sat 2/1/21	Wed 3/3/21	NA	NA	Wed 6/1/21	Sun 7/3/21	4 days 1 day	398									
:41- D -	1 Days with Days and Task	Summary	1		Inactive Mil	lestone $\Diamond$	1	Duration-or	ıly		Start-only	E	F	External Milesto	ne <	<u> </u>	C	ritical Split	<u> </u>			—
itle: Rev.1 as of 22-N	1 Prog with Progress	Project Sun	nmary		Inactive Sur				mmary Rollup		Finish-only	3		Deadline	10 4			rogress				
	Milestone •	Inactive Ta	sk		Manual Tas	k 📗		Manual Sur	nmary		External Tas	sks		Critical			N	Ianual Progr	ress			

							Cont	tract No. ED/	/2018/01 KT	D Project									
Task	Name	Duration	n Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total TRA Slack	Predecessors		Q3   Q4	2021 Q1   Q2   Q3	2 04 01	2022   Q2   Q3	Q4 Q1
0	Prepare DDA (E&M works) and ICE certification (Final)	16 days	0 days	16 days	0%	Thu 4/3/21	Fri 19/3/21	NA	NA	Mon 8/3/21	Tue 23/3/21	4 days 1 day	399				7 1 4 1 1		Q4 Q1
1	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Sat 20/3/21	Wed 19/5/21	NA	NA	Wed 24/3/21	Sun 23/5/21	4 days 1 day	400						
2	DCS Seawater & Intake Box Culverts (approx 88m) (Section 2)	479 days	s 304.41 days	174.59 days	0%	Tue 13/8/19	Thu 3/12/20	Tue 13/8/19	NA	Tue 13/8/19	Tue 3/8/21	243 days							
3	Prepare AIP Subm with ICE certification (Draft)	165 days	s 165 days	0 days	100%	Tue 13/8/19	Fri 24/1/20	Tue 13/8/19	Fri 24/1/20	Tue 13/8/19	Fri 24/1/20	0 days 3 days		_					
4	Submit & endorse by PM	85 days	85 days	0 days	100%	Thu 23/1/20	Thu 16/4/20	Thu 23/1/20	Thu 16/4/20	Thu 23/1/20	Thu 16/4/20	0 days 1 day	403						
5	Submit & endorse by Statutory Authorities/Gov. Dept	90 days	90 days	0 days	100%	Fri 24/1/20	Mon 27/4/20	Fri 24/1/20	Mon 27/4/20	Fri 24/1/20	Mon 27/4/20	0 days 1 day	403						
6	Prepare AIP and ICE certification (Final)	0 days		0 days	100%	Thu 23/4/20			Mon 27/4/20		Mon 27/4/20	0 days 1 days	403,405,404	27/4					
7	Prepare DDA and ICE certification		0 days	80 days	0%	Sat 23/5/20	Mon 10/8/20		NA	Thu 21/1/21	Sat 10/4/21	243 days 5 days							
3							Tue 29/9/20		NA					1					
9	Submit & endorse by PM and Statutory Authorities/Gov. Dept		0 days	50 days	0%	Tue 11/8/20				Sun 11/4/21	Sun 30/5/21	243 days 3 days							
	Prepare DDA for and ICE certification (Final)		0 days	15 days	0%	Wed 30/9/20	Wed 14/10/20		NA	Mon 31/5/21	Mon 14/6/21	243 days 1 day	408						
0	Submit & endorse by PM and Statutory Authorities/Gov. Dept		0 days	50 days	0%	Thu 15/10/20	Thu 3/12/20		NA	Tue 15/6/21	Tue 3/8/21	243 days 2 days	409						
1	Seawater & Intake Box Culverts Diversion	248 days	s 49.98 days	198.02 days	0%	Wed 1/4/20	Fri 4/12/20	Wed 1/4/20	NA	Wed 1/4/20	Wed 6/10/21	306 days							
2	Prepare AIP Subm (Draft)	32 days	32 days	0 days	100%	Wed 1/4/20	Sat 2/5/20	Wed 1/4/20	Sat 2/5/20	Wed 1/4/20	Sat 2/5/20	0 days 3 days							
3	Submit & endorse by PM and Statutory Authorities/Gov. Dept	51 days	21 days	30 days	41%	Sat 2/5/20	Mon 22/6/20	Sat 2/5/20	NA	Sat 2/5/20	Tue 17/11/20	148 days 3 days	412		H				
4	Prepare AIP and ICE certification (Final)	15 days	0 days	15 days	0%	Tue 23/6/20	Tue 7/7/20	NA	NA	Wed 18/11/20	Wed 2/12/20	148 days 1 days	412,413						
5	Prepare DDA and ICE certification	50 days	0 days	50 days	0%	Tue 23/6/20	Tue 11/8/20	NA	NA	Sun 25/4/21	Sun 13/6/21	306 days 5 days	412SS,413FF	7+5(	V = V				
6	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Wed 12/8/20	Wed 30/9/20	NA	NA	Mon 14/6/21	Mon 2/8/21	306 days 3 days	415	$-\parallel\parallel\parallel\parallel$					
,	Prepare DDA for and ICE certification (Final)	15 days	0 days	15 days	0%	Thu 1/10/20	Thu 15/10/20	NA	NA	Tue 3/8/21	Tue 17/8/21	306 days 1 day	416	$-\parallel \parallel \parallel \parallel$					
	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Fri 16/10/20	Fri 4/12/20	NA	NA	Wed 18/8/21	Wed 6/10/21	306 days 2 days	417	$-\parallel \parallel \parallel \parallel$					
	Rising Main (Sewerage Works)		s 134 days	268 days	0%	Thu 2/1/20	Sat 6/2/21		NA	Thu 2/1/20	Sun 7/3/21	29 days				<b>-</b> h			
	Prepare AIP (Draft)		35 days	0 days	100%	Thu 2/1/20	Wed 5/2/20	Thu 2/1/20	Wed 5/2/20		Wed 5/2/20	0 days 3 days	4						
	Submit & endorse by PM		19 days	0 days	100%	Thu 6/2/20	Mon 24/2/20		Mon 24/2/20		Mon 24/2/20	0 days 1 day							
	Submit & endorse by PM and Statutory Authorities/Gov. Dept		56 days	0 days	100%	Thu 0/2/20	Fri 22/5/20	Thu 27/2/20		Thu 27/2/20	Fri 22/5/20	0 days 2 days	420						
	Prepare AIP and ICE certification (Final)			1			Mon 14/9/20												
	• • • • • • • • • • • • • • • • • • • •		0 days	75 days	0%	Thu 2/7/20			NA	Fri 31/7/20	Tue 13/10/20	29 days 0 days							
	Prepare DDA and ICE certification (Draft)	30 days		30 days	0%	Tue 15/9/20	Wed 14/10/20		NA	Wed 14/10/20	Thu 12/11/20	29 days 4 days							
	Submit & endorse by PM and Statutory Authorities/Gov. Dept		0 days	50 days	0%	Thu 15/10/20			NA	Fri 13/11/20	Fri 1/1/21	29 days 3 days							
	Prepare DDA and ICE certification (Final)	15 days	0 days	15 days	0%	Fri 4/12/20	Fri 18/12/20	NA	NA	Sat 2/1/21	Sat 16/1/21	29 days 0 days	425						
7	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Sat 19/12/20	Sat 6/2/21	NA	NA	Sun 17/1/21	Sun 7/3/21	29 days 3 days	426,423			-			
3	Stormwater, Sewage, Salt Water and Fresh Water Works for Underpass and Depress Road	ed 641 days	s 151.9 days	489.1 days	0%	Fri 13/9/19	Mon 14/6/21	Fri 13/9/19	NA	Fri 13/9/19	Mon 28/6/21	14 days							
)	Stormwater Drainage AIP for Underpass and Depressed Roads and ICE certificat (Draft)	ion 72 days	72 days	0 days	100%	Mon 2/12/19	Tue 11/2/20	Mon 2/12/19	Tue 11/2/20	Mon 2/12/19	Tue 11/2/20	0 days 1 day							
0	Submit & endorse by PM	51 days	51 days	0 days	30%	Wed 12/2/20	Thu 2/4/20	Wed 12/2/20	Thu 2/4/20	Wed 12/2/20	Thu 2/4/20	0 days 0.5 day	ys 429						
1	Submit & endorse by Statutory Authorities/Gov. Dept	139 days	s 64 days	75 days	46%	Fri 20/3/20	Wed 5/8/20	Fri 20/3/20	NA	Fri 20/3/20	Fri 30/10/20	86 days	429						
2	Prepare AIP and ICE certification (Final)	150 days	s 50 days	100 days	33%	Fri 3/4/20	Sun 30/8/20	Fri 3/4/20	NA	Fri 3/4/20	Sat 14/11/20	76 days	431FF+15 da	ıys					
3	Prepare DDA and ICE certification (Draft)	150 days	s 0 days	150 days	0%	Sat 23/5/20	Mon 19/10/20	) NA	NA	Sat 18/7/20	Mon 14/12/20	56 days 1 day	429,432FF+3	80 d					
4	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Tue 20/10/20	Sun 17/1/21	NA	NA	Tue 15/12/20	Sun 14/3/21	56 days 0.5 day	ys 433	$-\parallel \parallel \parallel \parallel$		h			
5	Prepare DDA and ICE certification (Final)	31 days		31 days	0%	Mon 18/1/21	Wed 17/2/21	NA	NA	Mon 15/3/21		56 days 1 day	434	$-\parallel \parallel \parallel \parallel$					
5	Submit & endorse by PM and Statutory Authorities/Gov. Dept		0 days	75 days	0%	Thu 18/2/21	Mon 3/5/21		NA	Thu 15/4/21		56 days 5 days		$-\parallel \parallel \parallel \parallel$					
7	Fresh and Salt Water Works AIP for Underpass, Depressed Road and ICE		51 days	0 days	100%	Tue 8/10/19	Wed 27/11/19		Wed	Tue 8/10/19		0 days 1 day	1.50	_					
8	certification (Draft)				100%				27/11/19				ue 127						
9	Submit & endorse by PM		26 days	0 days		Thu 28/11/19		Thu 28/11/19			Mon 23/12/19		ys 437						
	Submit & endorse by Statutory Authorities/Gov. Dept		14 days	0 days	100%	Wed 8/4/20	Fri 24/4/20			Wed 8/4/20	Fri 24/4/20		437						
	Prepare AIP for Underpass, Depressed Road and ICE certification (Final)		22 days	0 days	100%	Sat 25/4/20		Sat 25/4/20	Sat 16/5/20		Sat 16/5/20	0 days 0 days							
	Prepare DDA for Underpass, Depressed Road and ICE certification (Draft)	90 days	0 days	90 days	0%	Sun 17/5/20	Fri 14/8/20	NA	NA	Fri 2/10/20		138 days 1 day	440						
2	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Sat 15/8/20	Wed 28/10/20	NA NA	NA	Thu 31/12/20	Mon 15/3/21	138 days 0.5 day	ys 441						
3	Prepare DDA for Underpass, Depressed Road and ICE certification (Final)	30 days	0 days	30 days	0%	Thu 29/10/20	Fri 27/11/20	NA	NA	Tue 16/3/21	Wed 14/4/21	138 days 0 days	442						
4	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Sat 28/11/20	Wed 10/2/21	NA	NA	Thu 15/4/21	Mon 28/6/21	138 days 0 days	443						
	1 Days with Days Task	Summary			Inactive Mi	lestone $\diamond$		Duration-on	ıly		Start-only	Е	1	External Milesto	ne 🔷	<u> </u>	Critical Split	11111	
	1 Prog with Progress Aay-20 Split		mmary		Inactive Su				mmary Rollup		Finish-only	3		Deadline	<b>+</b>		Progress		
10	Milestone •	Inactive Ta	ask		Manual Tas	sk 📗		Manual Sur	nmary		External Tasl	KS .		Critical			Manual Progress		

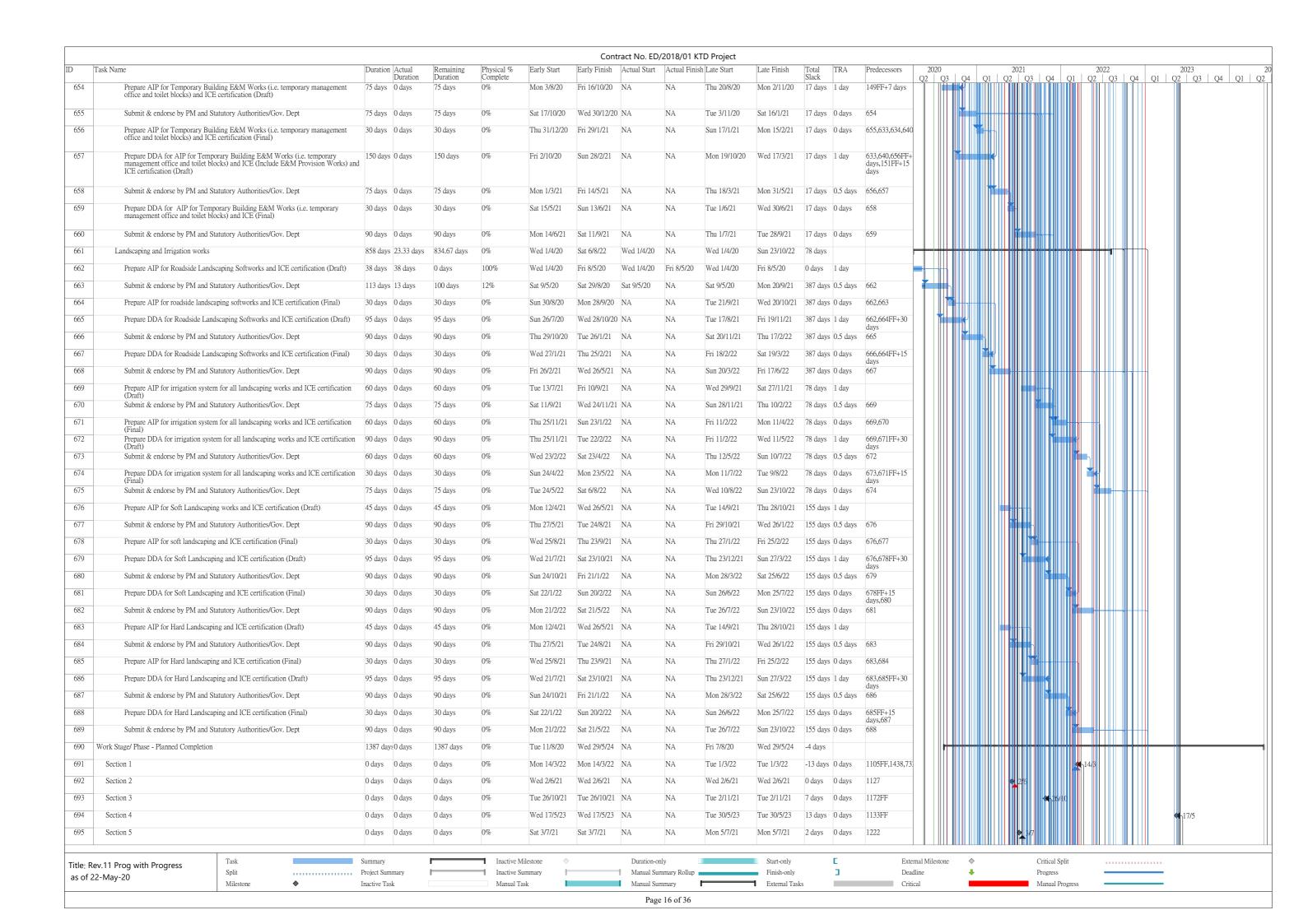




							Con	tract No. ED/	/2018/01 KT	TD Project												
Task	Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	h Late Start	Late Finish	Total TRA Slack	Predecessors	2020		01	2021 O2   O3	04 01	2022	03   04	2023	02   0
535	Prepare AIP for Salt Water Pumping Station E&M works and ICE certification	77 days		77 days	0%	Mon 17/8/20	Sun 1/11/20	NA	NA	Sun 13/9/20	Sat 28/11/20	27 days 2 days	534	Q2   	ψο Q4	QI	Q2   Q3	Q4   Q1	1   Q2	ري <u>(</u> 4	Q1   Q2   C	20   Q
36	(Final) Prepare DDA for Salt Water Pumping Station E&M works and ICE certification	120 days	0 days	120 days	0%	Tue 4/8/20	Tue 1/12/20	NA	NA	Mon 31/8/20	Mon 28/12/20	27 days 1 day	534FF,535FF	+3(								
37	(Draft) Submit to WSD for Plumbing and Irrigation Works for approval	0 days	0 days	0 days	0%	Tue 1/12/20	Tue 1/12/20	NA	NA	Tue 29/12/20	Tue 29/12/20	27 days 1 day	days,516 536			1/12						
38	Submit & endorse by PM and Statutory Authorities/Gov. Dept	91 days	0 days	91 days	0%	Wed 2/12/20	Tue 2/3/21	NA	NA	Tue 29/12/20	Mon 29/3/21	27 days 1 day	536,537			<b>+</b>						
39	Prepare DDA for Salt Water Pumping Station and ICE certification (Final)	31 days		31 days	0%	Wed 3/3/21	Fri 2/4/21	NA	NA	Tue 30/3/21	Thu 29/4/21	27 days 1 day	535FF+6									
40	Submit & endorse by PM and Statutory Authorities/Gov. Dept	91 days		91 days	0%	Sat 3/4/21	Fri 2/7/21	NA	NA	Fri 30/4/21	Thu 29/7/21	27 days 1 day	days,538 539									
													339									
541	AIP for Remaining Works of Salt Water & Sewerage Pumping and ICE certification (Draft)			0 days	0%	Mon 17/2/20	Sat 28/3/20			Mon 17/2/20	Sat 28/3/20	0 days 1 day	4									
42	Submit & endorse by PM	18 days	18 days	0 days	100%	Mon 30/3/20	Thu 16/4/20	Mon 30/3/20	Thu 16/4/20	Mon 30/3/20	Thu 16/4/20	0 days										
13	Submit & endorse by Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Mon 3/8/20	Sat 31/10/20	NA	NA	Sun 14/3/21	Fri 11/6/21	223 days 0.5 day	s 541,542									
14	AIP for Remaining Works of Salt Water Pumping & Sewage and ICE certification (Final)	90 days	0 days	90 days	0%	Sun 1/11/20	Fri 29/1/21	NA	NA	Sat 12/6/21	Thu 9/9/21	223 days 3 days	543									
45	DDA for Remaining Works of Salt Water & Sewage Pumping and ICE certification (Draft)	n 90 days	0 days	90 days	0%	Sun 6/12/20	Fri 5/3/21	NA	NA	Sat 17/7/21	Thu 14/10/21	223 days 1 day	541,544FF+3:	5								
16	Submit & endorse by PM and Statutory Authorities/Gov. Dept	93 days	0 days	93 days	0%	Sat 6/3/21	Sun 6/6/21	NA	NA	Fri 15/10/21	Sat 15/1/22	223 days 3 days										
17	DDA for Remaining Works of Salt Water & Sewage Pumping and ICE certification	on 35 days	0 days	35 days	0%	Mon 7/6/21	Sun 11/7/21	NA	NA	Sun 16/1/22	Sat 19/2/22	223 days 3 days	546,544FF+12	$2 \parallel \parallel \parallel$								
48	(Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Mon 12/7/21	Fri 24/9/21	NA	NA	Sun 20/2/22	Thu 5/5/22	223 days 2 days	days 547	$-\parallel \parallel \parallel$								
49	AIP for Architectural works of Salt Water & Sewage Pumping and ICE certification	on 45 days	0 days	45 days	0%	Mon 5/4/21	Wed 19/5/21	NA	NA	Mon 3/5/21	Wed 16/6/21	28 days 1 day	4	$-\parallel \parallel \parallel$								
50	(Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	,	60 days	0%	Thu 20/5/21	Sun 18/7/21		NA	Thu 17/6/21	Sun 15/8/21	28 days 0.5 day	s 549	$-\parallel \parallel \parallel$								
51					0%	Mon 19/7/21	Sat 18/9/21		NA	Mon 16/8/21				$\parallel \parallel \parallel$								
	AIP for Architectural works of Salt Water Pumping & Sewage and ICE certification (Final)			62 days							Sat 16/10/21	28 days 2 days										
52	DDA for Architectural works of Salt Water & Sewage Pumping and ICE certification (Draft)	60 days		60 days	0%	Fri 20/8/21	Mon 18/10/21		NA	Fri 17/9/21		28 days 1 day	549,551FF+30 days									
53	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Tue 19/10/21	Fri 17/12/21	NA	NA	Tue 16/11/21	Fri 14/1/22	28 days 0.5 day	s 552									
54	DDA for Architectural works of Salt Water & Sewage Pumping and ICE certification (Final)	36 days	0 days	36 days	0%	Sat 18/12/21	Sat 22/1/22	NA	NA	Sat 15/1/22	Sat 19/2/22	28 days 2 days	551FF+12 days,553									
55	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Sun 23/1/22	Fri 25/3/22	NA	NA	Sun 20/2/22	Fri 22/4/22	28 days 2 days	554					H		$+\parallel$		
56	AIP for Landscaping works of Salt Water & Sewage Pumping and ICE certification (Draft)	n 45 days	0 days	45 days	0%	Mon 5/4/21	Wed 19/5/21	NA	NA	Sun 2/5/21	Tue 15/6/21	27 days 1 day	4			1						
57	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Thu 20/5/21	Mon 19/7/21	NA	NA	Wed 16/6/21	Sun 15/8/21	27 days 0.5 day	s 556									
58	AIP for Landscaping works of Salt Water Pumping & Sewage and ICE certification	n 62 days	0 days	62 days	0%	Tue 20/7/21	Sun 19/9/21	NA	NA	Mon 16/8/21	Sat 16/10/21	27 days 2 days	556,557									
59	(Final)  DDA for Landscaping works of Salt Water & Sewage Pumping and ICE	62 days	0 days	62 days	0%	Thu 19/8/21	Tue 19/10/21	NA	NA	Wed 15/9/21	Mon 15/11/21	27 days 2 days	556,558FF+30					4				
60	certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days		61 days	0%	Wed 20/10/21			NA	Tue 16/11/21	Sat 15/1/22	27 days 0.5 day	days									
61	DDA for Landscaping works of Salt Water & Sewage Pumping and ICE	35 days		35 days	0%		Sun 23/1/22		NA	Sun 16/1/22	Sat 19/2/22	27 days 2 days										
	certification (Final)												days,560									
562	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days		61 days	0%	Mon 24/1/22			NA	Sun 20/2/22	Thu 21/4/22	27 days 2 days	561									
53	AIP for Seawater Intake and Box Culvert Structures for Pumping Station (approx. 160m) (Section 6) Submission (Draft)	58 days	58 days	0 days	100%	Tue 10/12/19	Wed 5/2/20	Tue 10/12/19	Wed 5/2/20	Tue 10/12/19	Wed 5/2/20	0 days 1 day										
64	Submit & endorse by PM	25 days	25 days	0 days	33%	Wed 5/2/20	Thu 5/3/20	Wed 5/2/20	Thu 5/3/20	Wed 5/2/20	Thu 5/3/20	0 days 0.5 day	s 563									
65	Submit & endorse by Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Sat 23/5/20	Sat 11/7/20	NA	NA	Sun 28/3/21	Sun 16/5/21	309 days 0.5 day	s 563									
66	AIP for Seawater Intake and Box Culvert Structure (Final)	21 days	0 days	21 days	0%	Sun 12/7/20	Sat 1/8/20	NA	NA	Mon 17/5/21	Sun 6/6/21	309 days 0.5 day	s 563,565,564									
67	DDA for Seawater Intake and Box Culvert Structure (Draft)	15 days	0 days	15 days	0%	Sat 25/7/20	Sat 8/8/20	NA	NA	Sun 30/5/21	Sun 13/6/21	309 days 1 day	563,565,564,5	566								
68	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days		50 days	0%	Sun 9/8/20	Sun 27/9/20		NA	Mon 14/6/21	Mon 2/8/21	309 days 0.5 day		$-\parallel \parallel \parallel$								
69	DDA for Seawater Intake and Box Culvert Structure (Final)	15 days		15 days	0%	Mon 28/9/20	Mon 12/10/20		NA	Tue 3/8/21	Tue 17/8/21	309 days 1 day	567,568,566F	E.								
				1										1								
70	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days		50 days	0%	Tue 13/10/20	Tue 1/12/20		NA	Wed 18/8/21	Wed 6/10/21	309 days 0.5 day	s 209									
71	Elevated Landscape Deck Staircase & Associated Work			445.51 days	0%	Thu 30/5/19		Thu 30/5/19		Thu 30/5/19	Mon 5/7/21	54 days										
72	Elevated Landscape Deck Superstructure AIP and ICE certification (Draft)	96 days	96 days	0 days	100%	Thu 30/5/19	Mon 2/9/19	Thu 30/5/19	Mon 2/9/19	Thu 30/5/19	Mon 2/9/19	0 days 3 days	4									
73	Submit & endorse by PM	15 days	15 days	0 days	100%	Tue 3/9/19	Tue 17/9/19	Tue 3/9/19	Tue 17/9/19	Tue 3/9/19	Tue 17/9/19	0 days 1 days	572									
74	Submit & endorse by Statutory Authorities/Gov. Dept	162 days	162 days	0 days	0%	Tue 24/9/19	Tue 3/3/20	Tue 24/9/19	Tue 3/3/20	Tue 24/9/19	Tue 3/3/20	0 days 0.5 day	s 573									
75	Prepare AIP and ICE certification (Final)	255 days	155 days	100 days	61%	Wed 20/11/19	Fri 31/7/20	Wed 20/11/19	NA NA	Wed 20/11/19	Thu 26/11/20	118 days 0.5 day	s 44FF+12 days	3	4-							
76	Prepare DDA and ICE certification (Draft)	75 days	0 days	75 days	0%	Fri 12/6/20	Sun 30/8/20	NA	NA	Thu 8/10/20	Sat 26/12/20	118 days 1 day	574FF+30 day	ys,.								
77	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days		50 days	0%	Mon 31/8/20	Mon 19/10/20	) NA	NA	Sun 27/12/20	Sun 14/2/21	118 days 0.5 day	s 576	$-\parallel \parallel \parallel$								
578	Prepare DDA for and ICE certification (Final)	22 days		22 days	0%	Tue 20/10/20			NA	Mon 15/2/21	Mon 8/3/21	118 days 1 day		$-\parallel \parallel \parallel$	Y							
//0	repart DD1 for and tell certification (Final)	22 uays	o uays	LL uays	U /U	1 uc 20/10/20	1 uc 10/11/20	11/1	11/1	141011 1.312121	141011 0/ 3/ 21	110 days 1 day	511									
d. 5 (1)	Dang with Dangers Task	Summary			Inactive M	ilestone 🔷		Duration-or	ıly		Start-only	Е	F	External Miles	one	<b>\$</b>	-	Critical Split				
tle: Rev.11 s of 22-M	Prog with Progress	Project Sum	nmary		Inactive Su				nmary Rollup		Finish-only	3		Deadline		₽.		rogress	-			
. U. LL 1VI	Milestone •	Inactive Tas	sk		Manual Ta	sk		Manual Sur	nmarv		External Tasl	CS.		Critical				Manual Progre	ess			

							Cont	tract No. ED/	/2018/01 KT	TD Project											
Task l	Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finisl	Late Start	Late Finish	Total TRA Slack	Predecessors	2020	Q4 Q1 Q2	21 Q3   Q4	01   0	2022	04 0	202	3
579	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days		50 days	0%	Wed 11/11/20	Wed 30/12/20	) NA	NA	Tue 9/3/21	Tue 27/4/21	118 days 1 day	578		Q+ Q1 Q2					1 1 22	<u>Q</u> 3
580	Elevated Landscape Deck - Lift (LT1&LT2)& Staircase include E&M Progvision: AIP and ICE Certification (Draft)	50 days	50 days	0 days	100%	Mon 7/10/19	Mon 25/11/19	Mon 7/10/19	Mon 25/11/19	Mon 7/10/19	Mon 25/11/19	0 days 3 days	44FF+12 days								
581	Submit & endorse by PM	21 days	21 days	0 days	100%	Tue 26/11/19	Mon 16/12/19	Tue 26/11/19		Tue 26/11/19	Mon 16/12/19	0 days 1 days	580	_							
582	Submit & endorse by Statutory Authorities/Gov. Dept	120 days	85 days	35 days	71%	Fri 28/2/20	Fri 26/6/20	Fri 28/2/20	NA	Fri 28/2/20	Thu 13/8/20	48 days 1 days	580								
583	Prepare AIP and ICE certification (Final)	60 days	0 days	60 days	0%	Sat 27/6/20	Tue 25/8/20	NA	NA	Fri 14/8/20	Mon 12/10/20	48 days 0 days	580,581,582,44F								
584	Prepare DDA and ICE certification (Draft)	60 days	0 days	60 days	0%	Tue 11/8/20	Wed 14/10/20	) NA	NA	Mon 28/9/20	Tue 1/12/20	48 days 1 day	580,583FF+50 d		<b>*</b>						
585	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 davs	90 days	0%	Thu 15/10/20	Tue 12/1/21	NA	NA	Wed 2/12/20	Mon 1/3/21	48 days 0.5 da	vs 584								
586	Prepare DDA for and ICE certification (Final)	30 days		30 days	0%	Wed 13/1/21		NA	NA	Tue 2/3/21	Wed 31/3/21		ys 585,583FF+12 d		4,,						
587	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days		90 days	0%	Fri 12/2/21	Wed 12/5/21		NA	Thu 1/4/21	Tue 29/6/21	48 days 2 days			1						
588	Elevated Landscape Deck - Open Space AIP Subm (Draft)	50 days		0 days	100%	Mon 10/2/20		Mon 10/2/20			Mon 30/3/20	0 days 3 days									
589	Submit & endorse by PM	21 days		0 days	100%	Mon 30/3/20		Mon 30/3/20			Mon 20/4/20		ys 588								
590	Submit & endorse by Statutory Authorities/Gov. Dept	50 days		50 days	0%	Mon 6/7/20	Mon 24/8/20		NA	Mon 28/9/20		84 days 1 days									
591	Prepare AIP and ICE certification (Final)	30 days		30 days	0%	Tue 25/8/20	Wed 23/9/20		NA	Tue 17/11/20		84 days 2 days	588,590,44FF+1								
592	Prepare DDA and ICE certification (Draft)	75 days	0 days	75 days	0%	Thu 24/9/20	Sat 12/12/20	NA	NA	Thu 17/12/20	Sat 6/3/21	84 days 1 day	590SS,591								
593	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Sun 13/12/20	Sun 31/1/21	NA	NA	Sun 7/3/21	Sun 25/4/21	84 days 0.5 da	ys 592								
594	Prepare DDA for and ICE certification (Final)	21 days	0 days	21 days	0%	Mon 1/2/21	Sun 21/2/21	NA	NA	Mon 26/4/21	Sun 16/5/21	84 days 0 days	593,591FF+6 da								
595	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Mon 22/2/21	Mon 12/4/21	NA	NA	Mon 17/5/21	Mon 5/7/21	84 days 0 days	594								
596	EVA for Open Space AIP Subm (Draft)	71 days	71 days	0 days	100%	Mon 10/2/20	Mon 20/4/20	Mon 10/2/20	Mon 20/4/20	Mon 10/2/20	Mon 20/4/20	0 days 3 days	-								
597	Submit & endorse by PM	2 days	2 days	0 days	100%	Tue 21/4/20	Mon 27/4/20	Tue 21/4/20	Mon 27/4/20	Tue 21/4/20	Mon 27/4/20	0 days 1 day	596								
598	Submit & endorse by Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Mon 6/7/20	Mon 24/8/20	NA	NA	Sun 4/10/20	Sun 22/11/20	90 days 1 days	596								
599	Prepare AIP and ICE certification (Final)	30 days	0 days	30 days	0%	Tue 25/8/20	Wed 23/9/20	NA	NA	Mon 23/11/20	Tue 22/12/20	90 days 2 days	596,598,44FF+1		<b>/</b>						
600	Prepare DDA and ICE certification (Draft)	60 days	0 days	60 days	0%	Thu 24/9/20	Fri 27/11/20	NA	NA	Wed 23/12/20	Thu 25/2/21	90 days 1 day	598SS,599								
601	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Sat 28/11/20	Sat 16/1/21	NA	NA	Fri 26/2/21	Fri 16/4/21	90 days 0.5 da	ys 600		<b>-</b>						
602	Prepare DDA for and ICE certification (Final)	30 days	0 davs	30 days	0%	Sun 17/1/21	Mon 15/2/21	NA	NA	Sat 17/4/21	Sun 16/5/21	90 days 0 days	599FF+6 days,6(								
603	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days		50 days	0%	Tue 16/2/21	Tue 6/4/21	NA	NA	Mon 17/5/21	Mon 5/7/21	90 days 0 days									
604	Waterfront Promenade and At-grade Open Space		5.98 days	527.02 days	0%	Wed 1/4/20	Wed 15/9/21		NA	Wed 1/4/20	Tue 28/9/21	13 days	002								
605	Prepare AIP for Observation Deck with Lift (LT5) and Staircase and ICE (Include			0 days	100%	Wed 1/4/20	Fri 24/4/20		Fri 24/4/20		Fri 24/4/20	0 days 1 day									
003	E&M Provision Works) certification (Draft)	2+ days	24 days	o days	100 %	W Cd 1/4/20	111 24/4/20	WCG 174720	111 24/4/20	W Cd 174720	111 24/4/20	o days 1 day									
606	Submit & endorse by PM and Statutory Authorities/Gov. Dept	14 days	14 days	0 days	0%	Fri 24/4/20	Fri 8/5/20	Fri 24/4/20	Fri 8/5/20	Fri 24/4/20	Fri 8/5/20	0 days 1 day	605								
607	Prepare AIP for Observation Deck with Lift (LT5) and Staircase and ICE (Include	31 days	0 days	31 days	0%	Wed 16/9/20	Fri 16/10/20	NA	NA	Thu 22/10/20	Sat 21/11/20	36 days 1 day	605,606,647FF,6		<b>-</b>						
	E&M Provision Works) certification (Final)																				
608	Prepare DDA for Observation Deck with Lift and Staircase and ICE (Include E&N Provision Works) certification (Draft)	1 100 days	0 days	100 days	0%	Sat 17/10/20	Sun 24/1/21	NA	NA	Sun 22/11/20	Mon 1/3/21	36 days 1 day	605,647,654,607								
609	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Mon 25/1/21	Sat 24/4/21	NA	NA	Tue 2/3/21	Sun 30/5/21	36 days 0.5 da	ys 608,607								
610	Prepare DDA for Observation Deck with Lift and Staircase and ICE (Include E&N Provision Works) certification (Final)	1 31 days	0 days	31 days	0%	Sun 25/4/21	Tue 25/5/21	NA	NA	Mon 31/5/21	Wed 30/6/21	36 days 1 day	609		<b>1</b> -						
611	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Wed 26/5/21	Mon 23/8/21	NA	NA	Thu 1/7/21	Tue 28/9/21	36 days 2 days	610					H			
612	Prepare AIP for Remaining Works at Waterfront Promenade and ICE (Include E&M Provision Works) certification (Draft)	51 days	0 days	51 days	0%	Mon 14/9/20	Tue 3/11/20	NA	NA	Sun 27/9/20	Mon 16/11/20	13 days 2 days									
612	, , ,	75 3.	0 de	75 de	007	Wad 4/11/00	Cun 17/1/01	NIA	NIA	Tue 17/11/00	Cat 20/1/01	12 days 0.5 1	412								
613	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days		75 days	0%	Wed 4/11/20	Sun 17/1/21		NA	Tue 17/11/20	Sat 30/1/21	13 days 0.5 da									
614	Prepare AIP for Remaining Works at Waterfront Promenade and ICE (Include E&M Provision Works) certification (Final)	60 days	U days	60 days	0%	Mon 18/1/21	Thu 18/3/21	NA	NA	Sun 31/1/21	Wed 31/3/21	13 days 2 days	612,613			+					
615	Prepare DDA for Remaining Works at Waterfront Promenade and ICE (Include	75 days	0 days	75 days	0%	Tue 2/2/21	Sat 17/4/21	NA	NA	Mon 15/2/21	Fri 30/4/21	13 days 1 day	612,614FF+30								
	E&M Provision Works) certification (Draft)												days								
616	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Sun 18/4/21	Wed 16/6/21	NA	NA	Sat 1/5/21	Tue 29/6/21	13 days 1 day	615								
617	Prepare DDA for Remaining Works at Waterfront Promenade and ICE (Include E&M Provision Works) certification (Final)	31 days	0 days	31 days	0%	Thu 17/6/21	Sat 17/7/21	NA	NA	Wed 30/6/21	Fri 30/7/21	13 days 1 day	616,614FF+15 days								
(10)		(0.1	0.1	(0.1	Oct	0 10/7/21	111 14500	NIA	NIA	0 , 21 17 12 1	T 20/024	12.1									
618	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days		60 days	0%	Sun 18/7/21	Wed 15/9/21		NA	Sat 31/7/21	Tue 28/9/21	13 days 1 day	617								
619	AIP for Cladding Design of Landscape Deck, Lifts and associated Works (Draft)	31 days	0 days	31 days	0%	Mon 20/7/20	Wed 19/8/20	NA	NA	Fri 21/8/20	Sun 20/9/20	32 days 1 day									
Fitle: Rev.11	I Prog with Progress	Summary	-		Inactive Mi			Duration-on	-		Start-only	С		Milestone	<b>\$</b>	Critical S <sub>1</sub>					
	ay-20 Split	Project Sum	ımary		■ Inactive Su	mmary 📗		Manual Sur	mmary Rollup 🏻		Finish-only	3	Deadlin	е	₩	Progress				_	

							Cont	ract No. ED/	/2018/01 K	CTD Project												
) Task	Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Fini	sh Late Start	Late Finish	Total T. Slack	RA Pre		2020 2   Q3   Q4   Q	2021	3   Q4   (	20	022	04 01	2023	2   0
620	Submit & endorse by PM and Statutory Authorities/Gov. Dept	63 days		63 days	0%	Thu 20/8/20	Wed 21/10/20	NA	NA	Mon 21/9/20	Sun 22/11/20		days 619		2 05 04			Q1   Q2		Q4 Q1	Q2   Q.	2   (
621	AIP for Cladding Design of Landscape Deck, Lifts and associated Works (Final)	52 days	0 days	52 days	0%	Thu 22/10/20	Sat 12/12/20	NA	NA	Mon 23/11/20	Wed 13/1/21	32 days 2	days 619	9,620								
622	DDA for Cladding Design of Landscape Deck, Lifts and associated Works (Draft)	61 days	0 days	61 days	0%	Thu 12/11/20	Mon 11/1/21	NA	NA	Mon 14/12/20	Fri 12/2/21	32 days 1	day 619	9,621FF+30		4						
623	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Tue 12/1/21	Fri 12/3/21	NA	NA	Sat 13/2/21	Tue 13/4/21	32 days 1	day 62	2		·						
624	DDA for Cladding Design of Landscape Deck, Lifts and associated Works (Final)	21 days	0 days	21 days	0%	Sat 13/3/21	Fri 2/4/21	NA	NA	Wed 14/4/21	Tue 4/5/21	32 days 1	day 62	1FF,622,623		111						
625	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Sat 3/4/21	Thu 3/6/21	NA	NA	Wed 5/5/21	Mon 5/7/21	32 days 2	days 62	4			4					
626	AIP for Balustrade and Railing of Promenade, Open Space and Assocated Works	30 days	0 days	30 days	0%	Sat 1/8/20	Sun 30/8/20	NA	NA	Tue 29/9/20	Wed 28/10/20	59 days 1	day		<b></b>							
627	(Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Mon 31/8/20	Thu 29/10/20	NA	NA	Thu 29/10/20	Sun 27/12/20	59 days 1	day 620	6								
628	AIP for Balustrade and Railing of Promenade, Open Space and Assocated Works	25 days	0 days	25 days	0%	Fri 30/10/20	Mon 23/11/20	NA	NA	Mon 28/12/20	Thu 21/1/21	59 days 0.	).5 days 620	6,627								
629	(Final)  DDA for Balustrade and Railing of Promenade, Open Space and Assocated Works	50 days	0 days	50 days	0%	Wed 4/11/20	Wed 23/12/20	NA	NA	Sat 2/1/21	Sat 20/2/21	59 days 1	day 620	6,628FF+30								
630	(Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Thu 24/12/20	Sun 21/2/21	NA	NA	Sun 21/2/21	Wed 21/4/21	59 days 0	day	ys 9								
631	DDA for Balustrade and Railing of Promenade, Open Space and Assocated Works			15 days	0%	Mon 22/2/21		NA	NA	Thu 22/4/21	Thu 6/5/21	59 days 1		8,629,630		<del>  </del>						
632	(Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days		60 days	0%	Tue 9/3/21	Fri 7/5/21	NA	NA	Fri 7/5/21	Mon 5/7/21	59 days 0				<b></b>						
633	Prepare AIP for Permanent Building Works (i.e. Ampitheater, Observation Tower,			60 days	0%	Wed 29/7/20		NA NA	NA NA	Thu 20/8/20		22 days 1		9FF+7 days								
055	Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) and ICE certification (Draft)	oo days	o uays	oo days	0 /0	wod 27/1/20	Sat 20/7/20	I.V.	INA	1 11u 20/0/20	Suit 10/10/20	22 uay8   1	uay 149	JIIT/ Uays								
634	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Sun 27/9/20	Wed 25/11/20	NA	NA	Tue 3/11/20	Fri 1/1/21	37 days 0.	0.5 days 633	3								
635	Prepare AIP for Permanent Building Works (i.e.Ampitheater, Observation Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) and ICE certification (Final)	30 days	0 days	30 days	0%	Thu 26/11/20	Fri 25/12/20	NA	NA	Sat 2/1/21	Sun 31/1/21	37 days 0	days 63	3,634								
636	Prepare DDA for Permanent Building Works (i.e. Ampitheater, Observation Tower Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) and ICE certification (Draft)	r, 100 days	0 days	100 days	0%	Fri 2/10/20	Sat 9/1/21	NA	NA	Sun 8/11/20	Mon 15/2/21	37 days 1		3,635FF+15 ys,151FF+15 ys	*							
637	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Sun 10/1/21	Thu 25/3/21	NA	NA	Tue 16/2/21	Sat 1/5/21	37 days 0	).5 days 63:	5 636								
638	Prepare DDA for Permanent Building Works (i.e. Ampitheater, Observation Tower			30 days	0%	Fri 26/3/21		NA	NA	Sun 2/5/21	Mon 31/5/21	37 days 0.	-			Т.						
036	Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) nd ICE certification (Final)	1, 50 days	0 days	50 days	0 /6	111 20/3/21	3at 24/4/21	NA .	IVA	Suii 2/3/21	WOII 31/3/21	37 days 0	days 05	,								
639	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Sun 25/4/21	Thu 8/7/21	NA	NA	Tue 1/6/21	Sat 14/8/21	37 days 0.	0.5 days 63.5	5,636,638		<u> </u>						
640	Prepare AIP for Permanent Building E&M Works (i.e. Ampitheater, Observation Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) and ICE certification (Draft)	75 days	0 days	75 days	0%	Tue 14/7/20	Sat 26/9/20	NA	NA	Wed 5/8/20	Sun 18/10/20	22 days 1	day 149	9FF+7 days								
641	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Sun 27/9/20	Wed 25/11/20	NA	NA	Mon 19/10/20	Thu 17/12/20	22 days 0.	0.5 days 640	0								
642	Prepare AIP for Permanent Building E&M Works (i.e. Observation Tower, Toilet		0 days	30 days	0%	Thu 26/11/20	Fri 25/12/20	NA	NA	Fri 18/12/20	Sat 16/1/21	22 days 0	days 640	0,641		<u> </u>						
	Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) and ICE certification (Final)																					
643	Prepare DDA for Permanent Building E&M Works (i.e. Ampitheater, Observation Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) and ICE (Include E&M Provision Works) certification (Draft)	120 days	0 days	120 days	0%	Sun 27/9/20	Sun 24/1/21	NA	NA	Mon 19/10/20	Mon 15/2/21	22 days 1		0,642FF+30 ys,151FF+15 ys								
644	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Mon 25/1/21	Thu 25/3/21	NA	NA	Tue 16/2/21	Fri 16/4/21	22 days 0.	).5 days 642	2,643								
645	Prepare DDA for Permanent Building E&M Works (i.e. Ampitheater, Observation Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of	30 days	0 days	30 days	0%	Fri 26/3/21	Sat 24/4/21	NA	NA	Sat 17/4/21	Sun 16/5/21	22 days 0	days 64	4		<b>                 </b>						
	Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) nd ICE certification (Final)																					
646	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 dave	90 days	0%	Sun 25/4/21	Fri 23/7/21	NA	NA	Mon 17/5/21	Sat 14/8/21	22 days 0	0.5 days 642	2,643,645								
647	Prepare AIP for Temporary Building Works (i.e. temporary management office and			75 days	0%	Mon 3/8/20	Fri 16/10/20		NA	Thu 20/8/20		17 days 1		9FF+7 days								
JT /	toilet blocks) and ICE certification (Draft)	. , Juays	o days	15 days	0 /0	141011 3/0/20	111 10/10/20	17/1	1721	1114 ZU/U/ZU	1V1O11 2/11/2U	ı, uays 1	uuy 143	/11 1 / uays								
648	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Sat 17/10/20	Wed 30/12/20	NA	NA	Tue 3/11/20	Sat 16/1/21	17 days 0	days 64	7								
649	Prepare AIP for Temporary Building Works (i.e. temporary management office and toilet blocks) and ICE certification (Final)	d 30 days	0 days	30 days	0%	Thu 31/12/20	Fri 29/1/21	NA	NA	Sun 17/1/21	Mon 15/2/21	17 days 0	) days 63.	3,634,648,640								
650	Prepare DDA for AIP for Temporary Building Works (i.e. temporary management office and toilet blocks) and ICE (Include E&M Provision Works) and ICE certification (Draft)	150 days	0 days	150 days	0%	Fri 2/10/20	Sun 28/2/21	NA	NA	Mon 19/10/20	Wed 17/3/21	17 days 1	day 633 day day	3,640,649FF+ ys,151FF+15 ys								
651	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Mon 1/3/21	Fri 14/5/21	NA	NA	Thu 18/3/21	Mon 31/5/21	17 days 0.	0.5 days 649	9,650								
652	Prepare DDA for AIP for Temporary Building Works (i.e. temporary management office and toilet blocks) and ICE (Final)	30 days	0 days	30 days	0%	Sat 15/5/21	Sun 13/6/21	NA	NA	Tue 1/6/21	Wed 30/6/21	17 days 0	days 65	1		*						
653	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Mon 14/6/21	Sat 11/9/21	NA	NA	Thu 1/7/21	Tue 28/9/21	17 days 0	days 652	2								
Till 5	Task	Summary		_	Inactive N	filestone 🔷		Duration-or	ıly		Start-only	Г		External N	Milestone ♦	<u> </u>	Critical Split	<u></u>	1 11 11 1111			_
Title: Rev.1' as of 22-M	I Prog with Progress	Project Sur	nmary		Inactive S				nmary Rollup		Finish-only		3	Deadline			Progress					
	Milestone •	Inactive Ta	sk		Manual T	ask		Manual Sur	nmarv		External Tasl	cs		Critical			Manual Prog	gress				



								tract No. ED/																	
Ta	k Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	2020	3   Q4	01	2021 Q2   Q3	O4	Q1   0	2022	3   04	Q1   Q2	2023	04 0
96	Section 6	0 days	0 days	0 days	0%	Thu 18/5/23	Thu 18/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	12 days	0 days	1357FF,1546FF,		J Q4			<u> </u>			)   Q4	Q1   Q2	18/5	<u>2</u> 4   Q.
97	Section 7	0 days	0 days	0 days	0%	Wed 29/5/24	Wed 29/5/24	NA	NA	Wed 29/5/24	Wed 29/5/24	0 days	0 days	1549FF											
98	Section 8	0 days	0 days	0 days	0%	Wed 24/11/21	Wed 24/11/21	NA	NA	Thu 2/12/21	Thu 2/12/21	8 days	0 days	1144FF					<b>44</b> -2	24/11					
99	Section 9	0 days	0 days	0 days	0%	Sat 3/7/21	Sat 3/7/21	NA	NA	Mon 5/7/21	Mon 5/7/21	2 days	0 days	1222				⊕ 3/7							
700	Section 10	0 days	0 days	0 days	0%	Thu 11/5/23	Thu 11/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	19 days	0 days	1559FF									44	11/5	
701	KD1	0 days	0 days	0 days	0%	Tue 11/8/20	Tue 11/8/20	NA	NA	Fri 7/8/20	Fri 7/8/20	-4 days	0 days	758		11/R									
702	KD2		0 days	0 days	0%	Sat 17/4/21	Sat 17/4/21		NA	Sun 18/4/21	Sun 18/4/21		0 days	791,821,771,774				- myx							
703	KD3		0 days	0 days	0%	Mon 26/4/21	Mon 26/4/21		NA	Tue 1/6/21	Tue 1/6/21	36 days	-	822,821											
704	KD4						Fri 28/1/22			Mon 31/1/22				1255FF				2.0 (4)		2004					
			0 days	0 days	0%	Fri 28/1/22			NA		Mon 31/1/22	3 days	1					1		28/1					
705	KD5		0 days	0 days	0%	Fri 25/6/21		NA	NA	Fri 17/9/21	Fri 17/9/21	84 days		1252FF				(1/23/C							
706	KD6	0 days	0 days	0 days	0%	Tue 21/12/21	Tue 21/12/21		NA	Wed 29/12/21	Wed 29/12/21		0 days	883					1	21/12					
07	KD7	0 days	0 days	0 days	0%	Thu 19/8/21	Thu 19/8/21	NA	NA	Fri 3/6/22	Fri 3/6/22	288 days	0 days	1254FF					19/8						
708 Co	nstruction Works	1499 day	75.67 days	1423.33 days?	0%	Thu 16/5/19	Wed 29/5/24	Thu 16/5/19	NA	Thu 16/5/19	Wed 29/5/24	0 days?			1 111										
09	Procurement of Materials and Equipments	615 days	12.7 days	602.3 days	0%	Thu 8/8/19	Wed 1/9/21	Thu 8/8/19	NA	Thu 8/8/19	Tue 22/2/22	140 days			1 111			+							
10	Office Accommodation	21 days	21 days	0 days	100%	Thu 8/8/19	Fri 20/12/19	Thu 8/8/19	Fri 20/12/19	Thu 8/8/19	Fri 20/12/19	0 days	1 day												
11	Lift Submission Preparation	15 days	0 days	15 days	0%	Sat 12/9/20	Sat 26/9/20	NA	NA	Wed 23/9/20	Wed 7/10/20	11 days	0.5 days	173											
12	Lift Comment & Approval	21 days	0 days	21 days	0%	Sun 27/9/20	Sat 17/10/20	NA	NA	Thu 8/10/20	Wed 28/10/20	11 days	0.5 days	711											
13	Lifts ((5 nos)	180 days	0 days	180 days	0%	Sun 18/10/20	Thu 15/4/21	NA	NA	Thu 29/10/20	Mon 26/4/21	11 days	30 days	712											
14	Pumps for Pump Room next to Underpass	150 days	0 days	150 days	0%	Sat 23/5/20	Thu 19/11/20	NA	NA	Wed 8/7/20	Tue 5/1/21	37 days	30 days												
15	Elevated landscape deck soffit panels	120 days	0 days	120 days	0%	Mon 14/9/20	Sat 6/2/21	NA	NA	Thu 4/2/21	Mon 5/7/21	117 days	30 days												
16	Underpass & Depressed Rd - facades	120 days		120 days	0%	Tue 1/12/20	Thu 29/4/21		NA	Wed 12/5/21	Mon 4/10/21	129 days													
17	E & M equipment & fittings (for Open space & Promenade)	120 days		120 days	0%	Tue 6/4/21	Fri 27/8/21		NA	Mon 27/9/21	Tue 22/2/22	144 days													
18	Bridge Parapet Fabrication	120 days		120 days	0%	Mon 16/11/20			NA	Wed 26/5/21	Wed 22/9/21	191 days													
19	Pumps for Salt and Sewage Pumping Stations	150 days		150 days	0%	Mon 5/4/21	Wed 1/9/21		NA	Sun 19/9/21	Tue 15/2/22	167 days	30 days												
20	Excavation Permit	300 days	0 days	300 days	0%	Mon 31/8/20	Thu 2/9/21	NA	NA	Mon 23/11/20	Tue 1/3/22	69 days													
721	TTA Application for Junction Modification Rd L6 & D2	182 days		182 days	0%	Tue 1/9/20	Mon 1/3/21	NA	NA	Mon 23/11/20	Sun 23/5/21	83 days	2 days												
22	Interfaced DCS 3 x DN150mm chilled water pipes under contract no. 2852EM17A and 4 nos. of signaling cable along North Approach Ramp and Gate 3B (Agreed)	368 days	0 days	368 days	0%	Mon 31/8/20	Thu 2/9/21	NA	NA	Sat 27/2/21	Tue 1/3/22	180 days	3 day												
23	Section 1	842 days	107.17 days	734.83 days	0%	Thu 16/5/19	Mon 14/3/22	Thu 16/5/19	NA	Thu 16/5/19	Wed 29/5/24	657 days			1 111										
24	Agree Interface Coordination Plan with CKR & KTSP	14 days	14 days	0 days	100%	Tue 27/8/19	Wed 11/9/19	Tue 27/8/19	Wed 11/9/19	Tue 27/8/19	Wed 11/9/19	0 days	0 days	1225,1226											
25	Ground Investigation	341 days	193.02 days	147.98 days	0%	Thu 12/9/19	Thu 5/11/20	Thu 12/9/19	NA	Thu 12/9/19	Sat 13/8/22	526 days		-											
26	GI Work	318 days	180 days	138 days	57%	Thu 12/9/19	Thu 5/11/20	Thu 12/9/19	NA	Thu 12/9/19	Sat 13/8/22	526 days	0.5 days	724											
27	Part 1 - Junction Modification Rd L6 & D2	414 days	0 days	414 days	0%	Mon 5/10/20	Fri 25/2/22	NA	NA	Mon 23/11/20	Tue 1/3/22	3 days													
28	XP Application for Junction Modification Rd L6 & D2	182 days	0 days	182 days	0%	Mon 5/10/20	Sun 4/4/21	NA	NA	Mon 23/11/20	Sun 23/5/21	49 days	1 day												
29	Stage 1: Trial Pit to locate the existing underground cables and utilities	14 days	0 days	14 days	0%	Thu 20/5/21	Fri 4/6/21	NA	NA	Mon 24/5/21	Tue 8/6/21	3 days	1 day	141,375,721,728											
30	Stage 2: Trial Pit to locate the existing underground cables and utilities	14 days		14 days	0%	Sat 5/6/21	Tue 22/6/21		NA	Wed 9/6/21	Fri 25/6/21		1 day	729											
31	Stage 3: East Bound + Drop Kerb Modification + Road Marking	76 days		76 days	0%	Wed 23/6/21	Mon 20/9/21		NA	Sat 26/6/21	Fri 24/9/21		1 day	730											
32													_												
	Stage 4: TTA for Central Divider	76 days		76 days	0%	Tue 21/9/21	Tue 21/12/21		NA	Sat 25/9/21	Fri 24/12/21		1 day	731,113											
33	Stage 5: Construct 2 Dividers	51 days		51 days	0%		Fri 25/2/22		NA	Tue 28/12/21	Tue 1/3/22		1 day	732											
34	Bridge D3 (Approach Ramp and Bridge) CH1087-1444.7	812 days	91.74 days	720.26 days	0%	Thu 16/5/19	Mon 7/2/22	Thu 16/5/19	NA	Mon 11/11/19	Wed 29/5/24	687 days													
35	North Approach Ramp	636 days	66.85 days	569.15 days	0%	Wed 25/12/19	Fri 18/2/22	Wed 25/12/19	NA	Wed 25/12/19	Tue 1/3/22	9 days													
36	Procurement of Movement Joints for Bridge Works	180 days	0 days	180 days	0%	Tue 11/8/20	Sat 6/2/21	NA	NA	Fri 9/10/20	Tue 6/4/21	59 days	30 days	194,220											
37	Sheetpile Driven along North, Sourth & East Side ELS Cofferdam (assume 169 long)	4 days	4 days	0 days	100%	Tue 14/1/20	Fri 17/1/20	Tue 14/1/20	Fri 17/1/20	Tue 14/1/20	Fri 17/1/20	0 days	0.5 day												
38	KTSP Completed Driven H-pile Installation	41 days	41 days	0 days	100%	Wed 25/12/19	Mon 3/2/20	Wed 25/12/19	Mon 3/2/20	Wed 25/12/19	Mon 3/2/20	0 days													
39	Hoarding Removal along KTSP Site	5 days	5 days	0 days	100%	Tue 4/2/20	Sat 8/2/20	Tue 4/2/20	Sat 8/2/20	Tue 4/2/20	Sat 8/2/20	0 days	0.5 day	738											
tle: Roy	11 Prog with Progress	Summary			Inactive M	ilestone $\diamondsuit$		Duration-on	ıly		Start-only		С	Externa	al Milestor	e 🔷			Critical S	plit					
	May-20 Split	Project Sun			Inactive Su				nmary Rollup		Finish-only		3	Deadli		•			Progress		_				
	Milestone •	Inactive Tas	sk		Manual Ta	sk		Manual Sun	nmary		External Tas	ks		Critical	l				Manual P	rogress	_				

							Con	tract No. ED,	/2018/01 KI	D Project												
Task Nam	ne	Duration	n Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	2020	Q3   Q4	2021 O1   O2   O3	O4 O1	2022   Q2		4 01	2023 Q2 Q
740	Sheetpile Driven along Western ELS Cofferdam (assume 105m long)	8 days	8 days	0 days	100%	Tue 11/2/20	Wed 19/2/20	Tue 11/2/20	Wed 19/2/20	Tue 11/2/20	Wed 19/2/20	0 days	0.5 day	737,739		<u>رم</u> (۷4	X1   Y2   Y3	V-1 VI	, <u>Q</u> 2	<del>2</del> 5 <del>Q</del> 4	V <sub>1</sub>	74 1 4
741	Excavattion with Shoring and Waling Installation with Rock Fill Replacement include Sand Raplacement Test with PWRL for KD1	44 days	44 days	0 days	100%	Thu 20/2/20	Wed 15/4/20	Thu 20/2/20	Wed 15/4/20	Thu 20/2/20	Wed 15/4/20	0 days	1 day									
742	Remaining Excavation with Shoring and Waling Installation with Rock Fill Replacement include Sand Raplacement Test with PWRL	37 days	0 days	37 days	0%	Tue 6/10/20	Wed 18/11/20	) NA	NA	Tue 13/10/20	Wed 25/11/20	6 days	2 days	741,761								
743	North Approach Ramp (Bays No.2,3,4&5) (Next to BEM) (KD1)	106 day	s 34.01 days	71.99 days	0%	Wed 1/4/20	Tue 11/8/20	Wed 1/4/20	NA	Wed 1/4/20	Fri 7/8/20	-3 days			<del></del>	1						
744	Bay No.3 Base Slab with Blinding (1)+(2)	15 days	15 days	0 days	100%	Wed 1/4/20	Wed 22/4/20	Wed 1/4/20	Wed 22/4/20	Wed 1/4/20	Wed 22/4/20	0 days	0.5 days	741SS+35 day	rs 🖷							
745	Bay No.3: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former	er) 42 days	22 days	20 days	45%	Wed 22/4/20	Thu 11/6/20	Wed 22/4/20	NA	Wed 22/4/20	Thu 11/6/20	-3 days		744								
746	May 2020 Inclement Weather	3 days	0 days	3 days	0%	Fri 12/6/20	Mon 15/6/20	NA	NA	Tue 9/6/20	Thu 11/6/20	-3 days		745,74SS								
47	Bay No. 3: Wall & Column Casted and Formwork & Falsework upto Soffit	of 15 days	0 days	15 days	0%	Tue 16/6/20	Sat 4/7/20	NA	NA	Fri 12/6/20	Tue 30/6/20	-3 days	1 day	745,746								
48	Top Slab(6)+(7)  Bay No. 3: Top Slab Construction with Formwork & Falsework Erection(8)	12 days	0 days	12 days	0%	Mon 6/7/20	Sat 18/7/20	NA	NA	Thu 2/7/20	Wed 15/7/20	-3 days	1 day	747								
749	Bay No.2 Base Slab with Blinding (1)+(2)	11 days	11 days	0 days	100%	Tue 28/4/20	Tue 12/5/20	Tue 28/4/20	Tue 12/5/20	Tue 28/4/20	Tue 12/5/20	0 days	1 day	741FS+2 days								
750	Bay No.2: Wall & Column with Soffit (upto +4.6mPD) (include Wall Forme			17 days	25%	Sat 16/5/20	Thu 11/6/20		NA	Sat 16/5/20	Thu 11/6/20	-1 day	1 day	749								
751	(3)+(4)+(5)  Bay No. 2: Wall & Column Casted and Formwork & Falsework upto Soffit			18 days	0%	Fri 12/6/20	Sat 4/7/20	NA	NA	Thu 11/6/20	Fri 3/7/20	-1 day	1 day	750								
752	Top Slab (6)+(7)  Bay No. 2: Top Slab Construction with Formwork & Falsework Erection(8)			12 days	0%	Wed 8/7/20	Tue 21/7/20		NA	Sat 4/7/20	Fri 17/7/20		1 day	751,748FF+2								
753	, , , , , , , , , , , , , , , , , , ,				100%									days								
	Bay No.4 Base Slab with Blinding (1)+(2)		15 days	0 days		Wed 1/4/20	Wed 13/5/20		Wed 13/5/20		Wed 13/5/20	0 days	-	741SS+35 day								
754	Bay No.4: Wall & Column with Soffit (upto +4.6mPD) (include Wall Forme (3)+(4)+(5)			14 days	36%	Thu 14/5/20	Tue 9/6/20	Thu 14/5/20		Thu 14/5/20	Tue 9/6/20	-3 days		753,750SS+7 days								
755	Bay No. 4: Wall & Column Casted and Formwork & Falsework upto Soffit ( Top Slab (6)+(7)	of 20 days	0 days	20 days	0%	Wed 10/6/20	Sat 4/7/20	NA	NA	Sat 6/6/20	Tue 30/6/20	-3 days	1 day	754								
756	Bay No. 4: Top Slab Construction with Formwork & Falsework Erection (8)	14 days	0 days	14 days	0%	Mon 6/7/20	Tue 21/7/20	NA	NA	Thu 2/7/20	Fri 17/7/20	-3 days	1 day	755,751SS+4 days								
757	Backfill (9)	12 days	0 days	12 days	0%	Wed 22/7/20	Tue 4/8/20	NA	NA	Sat 18/7/20	Fri 31/7/20	-3 days	0.5 days	756,752,748								
758	Sheetpile Extraction and Road Reinstatement (10) (KD1)	6 days	0 days	6 days	0%	Wed 5/8/20	Tue 11/8/20	NA	NA	Sat 1/8/20	Fri 7/8/20	-3 days	0.5 days	757		*						
759	North Approach Ramp (Bays No.5 & 6) (Next to BEM)	92 days	0 days	92 days	0%	Mon 24/8/20	Mon 23/11/20	) NA	NA	Thu 27/8/20	Thu 17/12/20	3 days				11						
760	Bay No.5 Base Slab with Blinding (1+2)	8 days	0 days	8 days	0%	Thu 10/9/20	Fri 18/9/20	NA	NA	Mon 14/9/20	Tue 22/9/20	3 days	1 day	749,753SS+4	da							
761	Bay No.5: Wall & Column with Soffit (upto +4.6mPD) (include Wall Forme	er) 12 days	0 days	12 days	0%	Sat 19/9/20	Mon 5/10/20	NA	NA	Wed 23/9/20	Thu 8/10/20	3 days	1 day	760		14						
762	(3+4+5) Bay No. 5: Wall & Column Casted and Formwork & Falsework upto Soffit	of 20 days	0 days	20 days	0%	Tue 6/10/20	Thu 29/10/20	NA	NA	Fri 9/10/20	Mon 2/11/20	3 days	1 day	761,755SS+4		<b>-</b>						
63	Top Slab (6)+(7)  Bay No. 5: Top Slab Construction with Formwork & Falsework Erection &	12 days	0 days	12 days	0%	Fri 30/10/20	Thu 12/11/20	NA	NA	Tue 3/11/20	Mon 16/11/20	3 days	1 day	762,227FF								
764	Removal (8) Bay No.6 Base Slab with Blinding (1)+(2)	15 days	0 days	15 days	0%	Mon 24/8/20	Wed 9/9/20	NA	NA	Thu 27/8/20	Sat 12/9/20	3 days	1 day	741SS+35 day	rs							
765	Bay No.6: Wall & Column with Soffit (upto +4.6mPD) (include Wall Forme	er) 17 days	0 days	17 days	0%	Thu 10/9/20	Tue 29/9/20	NA	NA	Wed 7/10/20	Tue 27/10/20	21 days		764								
766	(3)+(4)+(5)  Bay No. 6: Wall & Column Casted and Formwork & Falsework upto Soffit			27 days	0%	Wed 30/9/20	Tue 3/11/20	NA	NA	Wed 28/10/20	Fri 27/11/20	21 days	1 day	765								
767	Top Slab(6)+(7)  Bay No. 6: Top Slab Construction with Formwork & Falsework Erection &			17 days	0%	Wed 4/11/20			NA	Sat 28/11/20	Thu 17/12/20		1	765,766								
768	Removal (8)  North Approach Ramp (Bays 7&8) (Next to BEM)		0 days	56 days	0%	Tue 26/1/21	Wed 7/4/21		NA	Tue 26/1/21	Sat 17/4/21	0 days	, I day	703,700								
769	Bay 7: Blinding									Tue 26/1/21			0.5.1	016 767			<b>.</b>					
			0 days	1 day	0%	Tue 26/1/21	Tue 26/1/21		NA		Tue 26/1/21	0 days					<b>1</b>					
770	Bay 7: Base slab	9 days		9 days	0%	Wed 27/1/21		NA	NA	Wed 27/1/21	Fri 5/2/21	0 days		816,769								
771	Bay 7: Wall		0 days	13 days	0%	Sat 6/2/21	Wed 24/2/21		NA	Wed 31/3/21	Sat 17/4/21		1 day	819,770								
772	Bay 8: Blinding		0 days	1 day	0%	Wed 27/1/21	Wed 27/1/21		NA	Fri 5/2/21	Fri 5/2/21	8 days	0.5 days									
773	Bay 8: Base slab	9 days	0 days	9 days	0%	Sat 6/2/21	Fri 19/2/21	NA	NA	Sat 6/2/21	Fri 19/2/21	0 days	1 day	816,770,772								
774	Bay 8: Wall	13 days	0 days	13 days	0%	Sat 20/2/21	Sat 6/3/21	NA	NA	Sat 20/2/21	Sat 6/3/21	0 days	1 day	773,819								
775	Bays No.7&8: Backfilling	15 days	0 days	15 days	0%	Mon 8/3/21	Wed 24/3/21	NA	NA	Thu 18/3/21	Wed 7/4/21	9 days	1 day	774,767	7		T III					
776	Bays No.7&8: Extract Sheetpile	9 days	0 days	9 days	0%	Thu 25/3/21	Wed 7/4/21	NA	NA	Thu 8/4/21	Sat 17/4/21	9 days	0.5 days	775								
777	North Approach Ramp (Bays No.2,3,4) (Next to KTSP)	149 day	s 0 days	149 days	0%	Mon 17/8/20	Tue 12/1/21	NA	NA	Tue 25/8/20	Fri 5/2/21	8 days			$\parallel \parallel \parallel$							
778	Bay No.3 Base Slab with Blinding (1)+(2)	15 days	0 days	15 days	0%	Mon 24/8/20	Wed 9/9/20	NA	NA	Tue 1/9/20	Thu 17/9/20	7 days	1 day		$\parallel \parallel \parallel$							
779	Bay No.3: Wall & Column with Soffit (upto +4.6mPD) (include Wall Formed)	er) 17 days	0 days	17 days	0%	Thu 10/9/20	Tue 29/9/20	NA	NA	Wed 7/10/20	Tue 27/10/20	21 days	1 day	778	$\parallel \parallel \parallel$							
780	(3)+(4)+(5) Bay No. 3: Wall & Column Casted and Formwork & Falsework upto Soffit	of 27 days	0 days	27 days	0%	Wed 30/9/20	Tue 3/11/20	NA	NA	Wed 28/10/20	Fri 27/11/20	21 days	1 day	779	$+ \  \ $							
781	Top Slab(6)+(7)  Bay No. 3: Top Slab Construction with Formwork & Falsework Erection &	17 days	0 days	17 days	0%	Wed 4/11/20	Mon 23/11/20	) NA	NA	Sat 28/11/20	Thu 17/12/20			779,780	$+ \  \ $							
782	Removal (8) Bay No.2 Base Slab with Blinding (1)+(2)		0 days	15 days	0%	Mon 17/8/20	Wed 2/9/20		NA	Tue 25/8/20		7 days		778FS-21 day	$\frac{1}{s}$							
783	Bay No.2: Wall & Column with Soffit (upto +4.6mPD) (include Wall Forme			17 days	0%	Thu 3/9/20	Tue 22/9/20		NA	Wed 7/10/20	Tue 27/10/20			782	$\parallel \parallel \parallel$							
	(3)+(4)+(5)		Caujo	1, 3030			100 24 /120				100 211 101 20	2, days	- aug								Ш	
	og with Progress	Summary Project Sur	mmary		Inactive M Inactive Su			Duration-or	nly III mmary Rollup		Start-only Finish-only		C 3		xternal Milesto eadline	ne 💠		Critical Split Progress	-			
s of 22-May-	20 Split Milestone	Inactive Ta		U	Manual Ta			Manual Sur			External Tasl	len.	-		ritical	_		Togress Ianual Progres				

								ract No. ED/												
Task Name		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	2020 Q2   Q3	04 01	2021	03   Q4   Q1	2022 1   Q2   Q3	Q4 Q1
34	Bay No. 2: Wall & Column Casted and Formwork & Falsework upto Soffit of Top Slab(6)+(7)	27 days		27 days	0%	Wed 23/9/20	Tue 27/10/20	NA	NA	Wed 28/10/20	Fri 27/11/20	27 days	1 day	783	X2 X3	χ-			¥2   V3	7- 121
35	Bay No. 2: Top Slab Construction with Formwork & Falsework Erection &	17 days	0 days	17 days	0%	Wed 28/10/20	Mon 16/11/20	NA	NA	Sat 28/11/20	Thu 17/12/20	27 days	1 day	783,784						/
36	Removal (8) Bay No.4 Base Slab with Blinding (1)+(2)	15 days	0 days	15 days	0%	Tue 18/8/20	Thu 3/9/20	NA	NA	Wed 26/8/20	Fri 11/9/20	7 days	1 day	782SS+1 day						/
37	Bay No.4: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former	) 17 days	0 days	17 days	0%	Fri 4/9/20	Wed 23/9/20	NA	NA	Sat 12/9/20	Sat 3/10/20	7 days	1 day	786						/
38	(3)+(4)+(5)  Bay No. 4: Wall & Column Casted and Formwork & Falsework upto Soffit of	27 days	0 days	27 days	0%	Thu 24/9/20	Wed 28/10/20	NA	NA	Mon 5/10/20	Thu 5/11/20	7 days	1 day	787						i
39	Top Slab(6)+(7) Bay No. 4: Top Slab Construction with Formwork & Falsework Erection &			17 days	0%	Thu 29/10/20			NA	Fri 6/11/20	Wed 25/11/20		1 day	787,788						i
00	Removal (8)  Bay No.2,3&4: Backfilling upto +3.0mPD	28 days			0%	Tue 24/11/20	Mon 28/12/20		NA	Fri 18/12/20	Fri 22/1/21			789,785,781,767						i
				28 days								21 days								i
91	Bay No.4: Sheetpile Extraction (KD2)	12 days		12 days	0%	Tue 29/12/20			NA	Sat 23/1/21	Fri 5/2/21		0.5 days	790						i
	North Approach Ramp (Bays No.5,6) (Next to KTSP)	141 days		141 days	0%		Wed 7/4/21		NA	Thu 26/11/20	Sat 10/4/21	3 days				1	T'			i
3	Bay No.5 Base Slab with Blinding (1)+(2)	15 days	0 days	15 days	0%	Mon 23/11/20	Wed 9/12/20	NA	NA	Thu 26/11/20	Sat 12/12/20	3 days	1 day	741SS+35 days,		<b>1</b>				i
)4	Bay No.5: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former)	) 17 days	0 days	17 days	0%	Thu 10/12/20	Thu 31/12/20	NA	NA	Mon 14/12/20	Tue 5/1/21	3 days	1 day	793						i
05	Bay No. 5: Wall & Column Casted and Formwork & Falsework upto Soffit of Top Slab(6)+(7)	27 days	0 days	27 days	0%	Sat 2/1/21	Tue 2/2/21	NA	NA	Wed 6/1/21	Fri 5/2/21	3 days	1 day	794						i
96	Bay No. 5: Top Slab Construction with Formwork & Falsework Erection &	17 days	0 days	17 days	0%	Wed 3/2/21	Thu 25/2/21	NA	NA	Sat 6/2/21	Mon 1/3/21	3 days	1 day	794,795,791		1				i
07	Removal (8) Bay No.6 Base Slab with Blinding (1)+(2)	15 days	0 days	15 days	0%	Wed 18/11/20	Fri 4/12/20	NA	NA	Thu 26/11/20	Sat 12/12/20	7 days	1 day	789						/
08	Bay No.6: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former	) 17 days	0 days	17 days	0%	Sat 5/12/20	Thu 24/12/20	NA	NA	Mon 14/12/20	Tue 5/1/21	7 days	1 day	797						
9	(3)+(4)+(5)  Bay No. 6: Wall & Column Casted and Formwork & Falsework upto Soffit of			27 days	0%	Mon 28/12/20			NA	Wed 6/1/21	Fri 5/2/21			798						/
00	Top Slab (6)+(7)  Bay No. 6: Top Slab Construction with Formwork & Falsework Erection &			17 days	0%	Fri 29/1/21	Sat 20/2/21		NA	Sat 6/2/21	Mon 1/3/21			798,799						/
	Removal (8)																			/
01	Bay No.5&6: Backfilling upto +3.0mPD	26 days		26 days	0%	Fri 26/2/21		NA	NA	Tue 2/3/21	Wed 31/3/21		1 day	790,800,796						
)2	Bay No.5&6: Sheetpile Extraction (KD2)	6 days		6 days	0%	Mon 29/3/21	Wed 7/4/21		NA	Thu 1/4/21	Sat 10/4/21		0.5 days	801,791						/
03	North Approach Ramp (Bays 7&8) (Next to KTSP)	79 days	0 days	79 days	0%	Fri 29/1/21	Sat 17/4/21	NA	NA	Thu 11/2/21	Sat 17/4/21	0 days				1	<del> </del>			i
)4	Bay 7: Base slab	9 days	0 days	9 days	0%	Fri 29/1/21	Mon 8/2/21	NA	NA	Thu 11/2/21	Wed 24/2/21	11 days	0.5 days	816,799						i
5	Bay 7: Wall	12 days	0 days	12 days	0%	Mon 8/3/21	Sat 20/3/21	NA	NA	Mon 8/3/21	Sat 20/3/21	0 days	1 day	804,819,774						i
6	Bay 8: Base slab	9 days	0 days	9 days	0%	Tue 9/2/21	Mon 22/2/21	NA	NA	Thu 25/2/21	Sat 6/3/21	11 days	0.5 days	804,816						i
7	Bay 8: Wall	12 days	0 days	12 days	0%	Tue 23/2/21	Mon 8/3/21	NA	NA	Mon 8/3/21	Sat 20/3/21	11 days	1 day	806,819						i
8	Bays No.7&8: Backfilling	15 days	0 days	15 days	0%	Mon 22/3/21	Sat 10/4/21	NA	NA	Mon 22/3/21	Sat 10/4/21	0 days	1 day	807,805						i
9	Bays No.7&8: Extract Sheetpile	6 days	0 days	6 days	0%	Mon 12/4/21	Sat 17/4/21	NA	NA	Mon 12/4/21	Sat 17/4/21	0 days	1 day	808,801,802						i
0 (	CH1087-1189 (100m): North Approach Ramp: Parapet, Central Median &	77 days		77 days	0%	Mon 19/4/21	Wed 21/7/21	NA	NA	Thu 23/9/21	Tue 14/12/21		-	718			4			i
	Furniture CH1087-1189: Parapet (28m per day per team) x 1 team + 6 day concreting			23 days	0%	Mon 19/4/21	Sat 15/5/21		NA	Thu 23/9/21	Thu 21/10/21	130 days	2 day	809,776,821			<del>                 </del>			i
													-				1			i
2	CH1087-1189: Central Median and Utilties Trough (6m per day per team) x 1 team			25 days	0%	Thu 27/5/21	Fri 25/6/21		NA	Fri 22/10/21	Fri 19/11/21	122 days		811,236						i
3	CH1087-1189: Road Furniture	21 days		21 days	0%	Sat 26/6/21	Wed 21/7/21	NA	NA	Sat 20/11/21	Tue 14/12/21	122 days	3 days	812,358						i
.4	North Approach Ramp: Bay No. 1	135 days	0 days	135 days	0%	Fri 14/8/20	Mon 25/1/21	NA	NA	Fri 14/8/20	Mon 25/1/21	0 days				1				i
.5	Bay 1: Base slab	27 days	0 days	27 days	0%	Fri 14/8/20	Mon 14/9/20	NA	NA	Fri 14/8/20	Mon 14/9/20	0 days	0.5 days	834						i
.6	Bay 1: Wall	83 days	0 days	83 days	0%	Fri 16/10/20	Mon 25/1/21	NA	NA	Fri 16/10/20	Mon 25/1/21	0 days	3 days	819						i
.7	Part 3G - CH1189.4 to CH1229 North Abutment	180 days	0 days	180 days	0%	Tue 15/9/20	Mon 26/4/21	NA	NA	Tue 15/9/20	Mon 26/4/21	0 days								i
.8	North Abutment	180 days	0 days	180 days	0%	Tue 15/9/20	Mon 26/4/21	NA	NA	Tue 15/9/20	Mon 26/4/21	0 days					<del></del>			i
9	North Abutment - Base Slab	25 days	0 days	25 days	0%	Tue 15/9/20	Thu 15/10/20	NA	NA	Tue 15/9/20	Thu 15/10/20	0 days	1 day	815		لللللل				i
20	North Abutment Wall (3.85m thk)	37 days		37 days	0%	Tue 26/1/21	Fri 12/3/21	NA	NA	Tue 26/1/21	Fri 12/3/21	0 days	1 day	816		<b>.</b>				i
21	North Abutment Wall (0.5m thk) (KD2) (KD3)	28 days		28 days	0%	Sat 13/3/21	Sat 17/4/21		NA	Sat 13/3/21	Sat 17/4/21		-	820			lacksquare			i
																				/
22	Install bridge bearing	7 days		7 days	0%	Mon 19/4/21	Mon 26/4/21		NA	Mon 19/4/21	Mon 26/4/21	0 days	U.J GAÝS	021,730						/
	At Grade Road Works CH1000-2124	157 days		157 days	0%	Tue 10/8/21	Fri 18/2/22		NA	Thu 4/11/21	Tue 1/3/22	9 days								/
1	CH1000-1087 At grade road works	60 days		60 days	0%	Tue 10/8/21	Thu 21/10/21		NA	Wed 15/12/21	Tue 1/3/22	106 days	-	776,809,332,341					/	/
25	CH1444.7-1560 At grade road works	45 days	0 days	45 days	0%	Wed 22/12/21	Fri 18/2/22	NA	NA	Wed 5/1/22	Tue 1/3/22	9 days	1 day	1293,826,219						/
26	Ch2050 to 2124: At grade road works	50 days	0 days	50 days	0%	Mon 25/10/21	Tue 21/12/21	NA	NA	Thu 4/11/21	Tue 4/1/22	9 days	1 day	1438,219						/
27 Brid	lge D3 Bored Pile	17 days	17 days	0 days	0%	Tue 19/11/19	Thu 5/12/19	Tue 19/11/19	Thu 5/12/19	Tue 19/11/19	Thu 5/12/19	0 days								/
28	Pre-drilling Works	15 days	15 days	0 days	100%	Tue 19/11/19	Thu 5/12/19	Tue 19/11/19	Thu 5/12/19	Tue 19/11/19	Thu 5/12/19	0 days	0.5 day							/
	Tool	Cumm-				ilectors		Dt	alv.		Ctn-4 1		г	P.	in I Milanter			Crisia-1 S. 1's	<u> </u>	
e: Rev.11 Prog	with Progress	Summary Project Sur	nmary		Inactive M Inactive Su	_		Duration-on  Manual Sun	nmary Rollup 🔳		Start-only Finish-only		]	Extern Deadli	al Milestone ine	<ul><li>*</li></ul>		Critical Split Progress		
of 22-May-20		Inactive Ta			Manual Ta			Manual Sun			External Tasl			Critica				Manual Progre	225	

										D Project														
Task Na	ame	Duration	n Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	2020 Q2 Q	23   Q4	01   0	2021 22   Q3	Q4 (	Q1   O2	2022 2 Q3	Q4		2023   Q3   Q
29	Part 3C - CH1229 to CH1279	823 day	rs? 137.51 days	685.49 days?	0%	Thu 16/5/19	Sat 19/2/22	Thu 16/5/19	NA	Mon 11/11/19	Wed 29/5/24	676 da												<u> </u>
330	Abutment A01 Piling	0 days	0 days	0 days	0%	Thu 16/5/19	Thu 16/5/19	NA	NA	Wed 29/5/24	Wed 29/5/24	1841 d			<b>      </b>									ı
831	CH1189: Bored Pile (A01-BP1) by Rig 1(Contractor Bear DDA Approval Risk)	61 days	40 days	21 days	66%	Tue 31/3/20	Tue 16/6/20	Tue 31/3/20	NA	Tue 31/3/20	Tue 16/6/20	0 days	1 day	839										Ì
832	CH1189: Bored Pile (A01-BP2) by Rig 1 (Contractor Bear DDA Approval Risk	29 days	29 days	0 days	100%	Mon 13/4/20	Tue 19/5/20	Mon 13/4/20	Tue 19/5/20	Mon 13/4/20	Tue 19/5/20	0 days	1 day											Ì
833	Abutment A01: Pile Testing (28d curing & 14 test) - 1 full-core to be carried out	t 37 days	0 days	37 days	0%	Wed 17/6/20	Fri 31/7/20	NA	NA	Wed 17/6/20	Fri 31/7/20	0 days	5 days	831,832										Ì
834	Abutment A01: Proof-drilling Works	11 days	0 days	11 days	0%	Sat 1/8/20	Thu 13/8/20	NA	NA	Sat 1/8/20	Thu 13/8/20	0 days	2 day	833										Ì
835	Mobilization of plant and material	6 days	6 days	0 days	100%	Mon 11/11/19	Sat 16/11/19	Mon 11/11/19	Sat 16/11/19	Mon 11/11/19	Sat 16/11/19	0 days	1 days	14,194,193										I
336	CH1229: Pre-drilling Works	21 days	21 days	0 days	100%	Tue 19/11/19	Thu 12/12/19	Tue 19/11/19	Thu 12/12/19	Tue 19/11/19	Thu 12/12/19	0 days	0.5 days											I
337	Pier P01 Piling, Pilecap & Pier	0 days	0 days	0 days	0%	Thu 16/5/19	Thu 16/5/19	NA	NA	Wed 29/5/24	Wed 29/5/24	1841 d												I
338	Bored pile (P01-BP2) @ CH1229 by Rig 1 (Contractor Bear DDA Approval	44 days	44 days	0 days	100%	Fri 17/1/20	Wed 11/3/20	Fri 17/1/20	Wed 11/3/20	Fri 17/1/20	Wed 11/3/20	0 days	0.5 days											Ì
339	Risk) Bored pile (P01-BP1) @ CH1229 by Rig 1 (Contractor Bear DDA Approval	38 days	38 days	0 days	100%	Mon 24/2/20	Wed 8/4/20	Mon 24/2/20	Wed 8/4/20	Mon 24/2/20	Wed 8/4/20	0 days	0.5 days	838SS+30 days										I
40	Risk) Pier P01: Pile Testing (18d curing & 14 test)	45 days	0 days	45 days	0%	Sat 23/5/20	Thu 16/7/20	NA	NA	Mon 6/7/20	Wed 26/8/20	35 days	3 days	839	<b>         </b>									I
841	Pier P01: Proof-drilling Works	10 days	0 days	10 days	0%	Fri 17/7/20	Tue 28/7/20	NA	NA	Thu 27/8/20	Mon 7/9/20	35 days	1 day	839,840	$+ \mid \parallel$									ı
842	Pile Cap P01 @ CH1229	98 days	0 days	98 days	0%	Mon 15/6/20	Sun 11/10/20	NA	NA	Sat 29/8/20	Fri 13/11/20	28 days			┤│┟╀									ı
343	Excavation with Shoring Installation ~2600m3 Prod. Rate: 160m3/day/team			17 days	0%	Wed 29/7/20	Mon 17/8/20		NA	Tue 8/9/20	Sat 26/9/20	35 days	1 day	841		1								ı
844	Pilecap - Formwork Design and Method Statement Submission		0 days	0 days	0%	Mon 15/6/20	Mon 15/6/20		NA	Sat 29/8/20	Sat 29/8/20	75 days	_		<b>♦</b> 15/	/6								ı
845	Pilecap - Formwork Design and Method Statement Comment & Appraoval		0 days	30 days	0%	Mon 15/6/20	Tue 14/7/20		NA	Sat 29/8/20	Sun 27/9/20	75 days	1	844										ı
846	Pilecap structure		0 days	24 days	0%	Tue 18/8/20	Mon 14/9/20		NA	Mon 28/9/20	Wed 28/10/20			845,843	<b>   </b>									ı
347	Backfill		0 days	14 days	0%	Tue 15/9/20	Wed 30/9/20		NA	Thu 29/10/20	Fri 13/11/20	35 days		846										ı
348	Pier - Formwork Design and Method Statement Submission		0 days		0%	Mon 7/9/20	Mon 7/9/20		NA NA	Sat 10/10/20	Sat 10/10/20	33 days		010										ı
349				0 days	0%	Mon 7/9/20	Sun 11/10/20		NA NA	Sat 10/10/20 Sat 10/10/20	Fri 13/11/20			848										ı
	Pier - Formwork Design and Method Statement Comment & Appraoval		0 days	35 days								33 days												I
350	Pier P01 @ CH1229		0 days	49 days	0%	Wed 28/10/20			NA	Sat 14/11/20	Wed 13/1/21	15 days	-	847,211,849										I
351	CH1269: Pre-drilling Works		30 days	0 days	0%	Wed 20/11/19				Wed 20/11/19	Thu 19/12/19			835,836										Ì
352	Abandon the Installed defected Bored pile (P02-BP2) @ CH1269	35 days	35 days	0 days	100%	Tue 11/2/20		Tue 11/2/20			Sun 22/3/20		0.5 days	851										I
353	Pier P02 Piling, Pilecap & Pier	1 day?	0 days	1 day?	0%	Thu 16/5/19	Thu 16/5/19	NA	NA	Wed 29/5/24	Wed 29/5/24	1840 d												I
854	Predrilling works for Bored pile (P02-BP2)(Abandoned) @ CH1269		0 days	11 days	0%	Wed 3/6/20	Mon 15/6/20	NA	NA	Tue 9/6/20	Sat 20/6/20	5 days	0.5 days	852										I
355	Casing Extraction for Abandoned P02-BP2 Bored Pile	20 days	0 days	20 days	0%	Sat 20/6/20	Wed 15/7/20	NA	NA	Mon 22/6/20	Thu 16/7/20	1 day	1 day	854										I
856	Bored pile (P02-BP2)(Remedial) @ CH1269	30 days	0 days	30 days	0%	Thu 16/7/20	Wed 19/8/20	NA	NA	Fri 17/7/20	Thu 20/8/20	1 day	2 days	855,854										I
357	Bored pile (P02-BP1) @ CH1269 (Contractor Bear DDA Approval Risk) (Rig 2	26 days	26 days	0 days	100%	Fri 21/2/20	Sat 18/4/20	Fri 21/2/20	Sat 18/4/20	Fri 21/2/20	Sat 18/4/20	0 days	0.5 days	851	1. THE									I
358	Pile Testing (18d curing & 14 test)	32 days	0 days	32 days	0%	Thu 20/8/20	Fri 25/9/20	NA	NA	Wed 2/9/20	Sat 10/10/20	11 days	0.5 days	852,857,856										Ì
359	Proof-drilling Works	9 days	0 days	9 days	0%	Sat 26/9/20	Thu 8/10/20	NA	NA	Mon 12/10/20	Wed 21/10/20	11 days	1 day	839,840,858		THE L								I
860	Pile Cap ELS - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 29/6/20	Mon 29/6/20	NA	NA	Tue 22/9/20	Tue 22/9/20	85 days	1 day		4 29	9/6								I
861	Pile Cap ELS - Temp. Works Design and Method Statement Comment &	30 days	0 days	30 days	0%	Mon 29/6/20	Tue 28/7/20	NA	NA	Tue 22/9/20	Wed 21/10/20	85 days	1 day	860										I
862	Appraoval Pile Cap P02 @ CH1270	120 day	s 0 days	120 days	0%	Mon 24/8/20	Sat 16/1/21	NA	NA	Thu 22/10/20	Fri 29/1/21	11 days					70							I
363	Drive sheetpile (~75m). Prod. Rate: 5m/day/side/team	17 days	0 days	17 days	0%	Fri 9/10/20	Thu 29/10/20	) NA	NA	Thu 22/10/20	Wed 11/11/20	11 days	2 days	861,858,140,85	9									I
364	Excavation ~1677m3 & lateral support. Prod. Rate: 100m3/day/team	18 days	0 days	18 days	0%	Fri 30/10/20	Thu 19/11/20	) NA	NA	Thu 12/11/20	Wed 2/12/20	11 days	1 days	863	$- \  \cdot \  \cdot \ $									I
365	Pilecap Formwork Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 24/8/20	Mon 24/8/20	NA	NA	Thu 12/11/20	Thu 12/11/20	80 days	1 day		$\ \cdot\ $	<b>4</b> 24/8								ı
366	Pilecap Formwork - Design and Method Statement Comment & Appraoval	21 days	0 days	21 days	0%	Mon 24/8/20	Sun 13/9/20	NA	NA	Thu 12/11/20	Wed 2/12/20	80 days	1 day	865	$\parallel \parallel \parallel$									ı
367	Pilecap structure	36 days	0 days	36 days	0%	Fri 20/11/20	Mon 4/1/21	NA	NA	Thu 3/12/20	Sat 16/1/21	11 days	1 day	866,864,863	$\left\{ \left[ $									ı
368	Backfill and extract sheet pile		0 days	11 days	0%	Tue 5/1/21	Sat 16/1/21	NA	NA	Mon 18/1/21	Fri 29/1/21	11 days		867	$\  \  \ $									ı
69	Pier - Temp. Works Design and Method Statement Submission		0 days	0 days	0%	Mon 7/9/20	Mon 7/9/20		NA	Thu 31/12/20	Thu 31/12/20				$\parallel \parallel \parallel$	7/9								ı
70	Pier - Temp. Works Design and Method Statement Comment & Appraoval		0 days	30 days	0%	Mon 7/9/20	Tue 6/10/20		NA	Thu 31/12/20	Fri 29/1/21	115 days		869		411								ı
871	Pier P02 @ CH1270		0 days	49 days	0%	Mon 18/1/21	Thu 18/3/21		NA	Sat 30/1/21	Wed 31/3/21	11 days		868,211,870	-									ı
													1 uay	000,211,070										ı
872	Stage 1: Bridge deck between CH1229-1311		o days	340 days	0%	Mon 2/11/20			NA	Tue 19/1/21	Wed 29/12/21		1 d											ı
873	Bridge Deck - Temp. Works Design and Method Statement Submission	o days	0 days	0 days	0%	Mon 2/11/20	Mon 2/11/20	INA	NA	Tue 19/1/21	Tue 19/1/21	78 days	1 day			2/								
tle: Rev.11 F	Prog with Progress Task	Summary			Inactive Mi	_		Duration-or			Start-only		[		temal Mileston				Critical Split	t				
s of 22-May	Split	Project Sur Inactive Ta			Inactive Su  Manual Tas			Manual Sur Manual Sur	mmary Rollup		Finish-only  External Tas	-1	]		adline itical	4			Progress Manual Prog				_	

Task Name			_					_	_													
Task Nam		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finis	sh Late Start	Late Finish	Total TR Slack	A Predecessors	2020 Q2   Q3	04 01	2021 02 0	3   Q4   (		2022 2   Q3	04		023   Q3   Q4
874	Bridge Deck - Temp. Works Design and Method Statement Comment &	35 days		35 days	0%	Mon 2/11/20	Sun 6/12/20	NA	NA	Tue 19/1/21	Mon 22/2/21	78 days 1 d	ay 873	Q2 Q3	4 (						1   Q2	<u>Q</u> 3   Q
875	Appraoval CH1229-1311: Deck Falsework erection Part 1	32 days	0 days	32 days	0%	Tue 23/2/21	Wed 31/3/21	NA	NA	Tue 23/2/21	Wed 31/3/21	0 days 1 d	ay 874,922									
876	CH1229-1311: Deck Falsework erection Part 2	28 days	0 days	28 days	0%	Thu 1/4/21	Fri 7/5/21	NA	NA	Thu 1/4/21	Fri 7/5/21	0 days 3 d	ays 875,871									
877	CH1229-1311: Structure deck	50 days	0 days	50 days	0%	Wed 7/4/21	Sat 5/6/21	NA	NA	Wed 7/4/21	Sat 5/6/21	0 days 2 d	ay 475,483,736,875			T						
878	CH1229-1311: Prestressing	18 days		18 days	0%	Thu 24/6/21	Thu 15/7/21	NA	NA	Thu 24/6/21	Thu 15/7/21	0 days 0.5	day 877FS+14 days									
879	CH1229-1311: Falsework Under Main Deck Removal	12 days		12 days	0%	Fri 16/7/21	Thu 29/7/21		NA	Fri 16/7/21	Thu 29/7/21		day 878									
880	CH1229-1311: Utility Trough (0.67m per day per team) x 4 team				0%	Fri 16/7/21	Thu 7/10/21		NA	Thu 22/7/21	Wed 13/10/21											
		70 days		70 days																		
881	CH1229-1311: Central Median (6m per day per team) x 2 team	31 days		31 days	0%	Fri 16/7/21	Fri 20/8/21		NA	Sat 2/10/21	Mon 8/11/21	65 days 3 d										
382	CH1229-1311: Parapet (28m per day per team) x 2 team + 6x2 day concreting			21 days	0%	Fri 8/10/21	Tue 2/11/21		NA	Fri 15/10/21	Mon 8/11/21	5 days 3 d										
883	CH1229-1311: Removal of Falsework (KD6)	42 days	0 days	42 days	0%	Wed 3/11/21	Tue 21/12/21	NA	NA	Tue 9/11/21	Wed 29/12/21	5 days 6 d	ays 880,882,881									
884	CH1229-1311: Road Furniture	15 days	0 days	15 days	0%	Sat 21/8/21	Tue 7/9/21	NA	NA	Sat 27/11/21	Tue 14/12/21	81 days 1 d	ay 881,358				11	#				
885	Part 3D - CH1279 to CH1311	196 days	0 days	196 days	0%	Mon 7/6/21	Sat 29/1/22	NA	NA	Wed 16/6/21	Fri 11/2/22	7 days										
886	Stage 1: Bridge deck between CH1269-1311	196 days	0 days	196 days	0%	Mon 7/6/21	Sat 29/1/22	NA	NA	Wed 16/6/21	Fri 11/2/22	7 days										
887	CH1269-1311: Structure deck	50 days	0 days	50 days	0%	Mon 7/6/21	Thu 5/8/21	NA	NA	Wed 16/6/21	Fri 13/8/21	7 days 2 d	ay 475,483,736,877									
888	Prestressing CH1269 - 1311 Bridge Spans	21 days	0 days	21 days	0%	Mon 23/8/21	Wed 15/9/21	NA	NA	Tue 31/8/21	Fri 24/9/21	7 days 3 d	ay 887FS+14 days									
889	CH1269-1311: Utility Trough (0.67m per day per team) x 2 team	64 days	0 days	64 days	0%	Thu 16/9/21	Thu 2/12/21	NA	NA	Sat 25/9/21	Fri 10/12/21	7 days 0.5	day 888,219									
390	CH1269-1311: Parapet (28m per day per team) x 1 team + 6 day	17 days	0 days	17 days	0%	Fri 3/12/21	Wed 22/12/2	1 NA	NA	Sat 11/12/21	Mon 3/1/22	7 days 3 d	ays 889				<b>*</b>					
891	concreting CH1269-1311: Central Median (6m per day per team) x 1 team	15 days		15 days	0%	Thu 23/12/21	Wed 12/1/22	NΑ	NA	Wed 5/1/22	Fri 21/1/22	8 days 1 d	ay 889,890				<u> </u>					
892	CH1269-1311: Road Furniture	15 days		15 days	0%	Thu 13/1/22	Sat 29/1/22		NA	Sat 22/1/22	Fri 11/2/22	8 days 1 d						,				
													ay 091,330									
893	Stage2: Bridge deck between CH1189-1229	823 days		823 days?	0%	Thu 16/5/19	Sat 19/2/22		NA	Tue 27/4/21	Wed 29/5/24	579 da										
894	CH1189-1229: Deck Falsework erection	1 day?		1 day?	0%	Thu 16/5/19	Thu 16/5/19	NA	NA	Wed 29/5/24	Wed 29/5/24	1840 d										
895	CH1189-1229: Deck Falsework erection	22 days	0 days	22 days	0%	Tue 27/4/21	Mon 24/5/21	NA	NA	Tue 27/4/21	Mon 24/5/21	0 days 1 d	ay 850,822									
396	CH1189-1229: Structure deck	27 days	0 days	27 days	0%	Tue 25/5/21	Fri 25/6/21	NA	NA	Tue 25/5/21	Fri 25/6/21	0 days 2 d	895,475,483									
897	CH1189-1229: Prestressing	18 days	0 days	18 days	0%	Wed 14/7/21	Tue 3/8/21	NA	NA	Wed 14/7/21	Tue 3/8/21	0 days 1 d	ay 896FS+14 days				ì					
898	CH1189-1229: Falsework Under Main Deck Removal	15 days	0 days	15 days	0%	Wed 4/8/21	Fri 20/8/21	NA	NA	Wed 4/8/21	Fri 20/8/21	0 days 3 d	ays 878,897				<b>,</b>					
399	CH1189-1229: Utility Trough (0.67m per day per team) x 2 team	63 days	0 days	63 days	0%	Wed 4/8/21	Tue 19/10/21	NA	NA	Wed 13/10/21	Tue 28/12/21	58 days 3 d	ays 219,897									
900	CH1189-1229 : Central Median (6m per day per team) x 1 team	16 days	0 days	16 days	0%	Sat 21/8/21	Wed 8/9/21	NA	NA	Fri 21/1/22	Fri 11/2/22	125 days 3 d	ay 897,881				1					
901	CH1189-1229: Parapet (28m per day per team) x 1 team + 6 day concreting	20 days	0 days	20 days	0%	Wed 3/11/21	Thu 25/11/21	l NA	NA	Mon 17/1/22	Fri 11/2/22	61 days 5 d	ay 899,882				<b>***</b>					
902	CH1189-1229: Road Furniture	15 days	0 davs	15 days	0%	Mon 31/1/22	Sat 19/2/22	NA	NA	Sat 12/2/22	Tue 1/3/22	8 days 1 d	ay 900,892,358,901									
	Part 3E - CH1311 to CH1372		94.1 days	557.9 days	0%	Tue 12/11/19	Fri 21/1/22	Tue 12/11/19	NA	Tue 12/11/19	Wed 29/5/24	698 days										
904	Pre-drilling Works		31 days	0 days	0%			Tue 12/11/19			Tue 17/12/19		dou				1					
													-									
905	Bored pile (P03-BP1) @ CH1311 (Rig 2) (Contractor Bear DDA Design Risk)			0 days	100%	Tue 17/3/20	Fri 8/5/20	Tue 17/3/20		Tue 17/3/20	Fri 8/5/20	0 days 0.5	-									
906	Bored pile (P03-BP2) @ CH1311 (Contractor Bear DDA Design Risk) (Rig 2)	36 days	25 days	11 days	69%	Wed 22/4/20	Thu 4/6/20	Wed 22/4/20		Wed 22/4/20	Thu 4/6/20	0 days 3 d										
907	Pile Testing (18 curing & 14 test)	35 days	0 days	35 days	0%	Sat 6/6/20	Sat 18/7/20	NA	NA	Sat 6/6/20	Sat 18/7/20	0 days 3 d	906FS+1 day,90									
908	Proof-drilling Works	11 days	0 days	11 days	0%	Mon 20/7/20	Fri 31/7/20	NA	NA	Mon 20/7/20	Fri 31/7/20	0 days 2 d	ays 907									
909	Pile Cap P03 @ CH1311	76 days	0 days	76 days	0%	Tue 7/7/20	Mon 5/10/20	NA	NA	Fri 31/7/20	Wed 29/5/24	21 days										
910	Pile Cap @ CH1311 by Open Cut	46 days	0 days	46 days	0%	Sat 1/8/20	Wed 23/9/20	NA	NA	Wed 28/10/20	Sat 19/12/20	72 days	908									
911	Pilecap Formwork Design and Method Statement Submission	0 days	0 days	0 days	0%	Tue 7/7/20	Tue 7/7/20	NA	NA	Tue 30/4/24	Tue 30/4/24	1393 1 d	ay	7,7								
912	Pilecap Formwork Design and Method Statement Comment & Appraoval	30 days	0 days	30 days	0%	Tue 7/7/20	Wed 5/8/20	NA	NA	Tue 30/4/24	Wed 29/5/24	1393 1 d	ay 911									
913	Excavation with Shoring Installation ~2600m3 Prod. Rate: 160m3/day/team	17 days	0 days	17 days	0%	Sat 1/8/20	Thu 20/8/20	NA	NA	Sat 1/8/20	Thu 20/8/20	days 0 days 1 d	ay 908									
914	Pilecap Formwork - design and Method Statement Submission	0 days		0 days	0%	Mon 20/7/20	Mon 20/7/20		NA	Fri 31/7/20	Fri 31/7/20	11 days 1 d		1017								
915	Pilecap Formwork - Design and Method Statement Comment & Appraoval	21 days		21 days	0%	Mon 20/7/20	Sun 9/8/20		NA	Fri 31/7/20	Thu 20/8/20	11 days 1 d										
916	Pilecap structure	24 days		24 days	0%	Fri 21/8/20	Thu 17/9/20		NA	Fri 21/8/20	Thu 17/9/20	0 days 1 d										
917	Backfill	13 days		13 days	0%	Fri 18/9/20	Mon 5/10/20		NA	Fri 18/9/20	Mon 5/10/20	0 days 1 d										
918	Agree Interface Coordination Plan with CKP-KTW (HY/2014/07)	14 days	0 days	14 days	0%	Tue 6/10/20	Wed 21/10/20	0 NA	NA	Tue 6/10/20	Wed 21/10/20	0 days 0 d	ays 917		21/10							
itle: Rev 11 Pro	og with Progress	Summary	_		Inactive N	filestone $\diamondsuit$		Duration-or	ıly		Start-only	Е	Exte	mal Milestone	<b>♦</b>		Critical Split	<u></u>				
ns of 22-May-2	Colit	Project Sun	nmary		Inactive S	ummary		Manual Sur	nmary Rollup		Finish-only	3	Dea	lline	•		Progress				_	

								tract No. ED														
Task Na	ame	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finis	h Late Start	Late Finish	Total TRA Slack	Predecessors	2020 O2 (	)3   Q4		2021   O3   O	Q4 Q1	2022	2 Q3   Q4	01   0	2023 2   Q3   0
919	Allow access to CKR-KTW contractor for sheet pile wall installation. PS App.1.18 2.7(A)(c)	60 days		60 days	0%	Thu 22/10/20	Sun 20/12/20	) NA	NA	Thu 22/10/20	Sun 20/12/20	0 days 0 days	917,918			, , , , , , , , , , , , , , , , , , ,					1	
920	Pier - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 12/10/20	Mon 12/10/2	0 NA	NA	Mon 16/11/20	Mon 16/11/20	35 days 1 day		1	12/10							
921	Pier - Temp. Works Design and Method Statement Comment & Approval	35 days	0 days	35 days	0%	Mon 12/10/20	Sun 15/11/20	) NA	NA	Mon 16/11/20	Sun 20/12/20	35 days 1 day	920	<del>             </del>								
922	Pier P03 @ CH1311	49 days	0 days	49 days	0%	Mon 21/12/20	Mon 22/2/21	NA	NA	Mon 21/12/20	Mon 22/2/21	0 days 1 day	916,919,850SS+									
923	Pre-drilling Works	15 days	15 days	0 days	100%	Wed 4/12/19	Wed 18/12/1	9 Wed 4/12/19	Wed 18/12/.	Wed 4/12/19	Wed 18/12/19	0 days 0.5 day	'S							1		
924	Diversion of existing 150mm dia. Watermain (agreed)		42 days	12 days	78%	Sat 28/3/20	Fri 5/6/20	Sat 28/3/20	NA	Sat 28/3/20	Sat 14/11/20	134 days 2 days										
925	Bored pile (P04-BP2) @ CH1351 (Rig 2)	52 days		51 days	0%	Fri 22/5/20			NA	Fri 22/5/20	Tue 19/1/21	73 days 3 days	923,856									
926	Bored pile (P04-BP1) @ CH1351 (Rig 2)	53 days		53 days	0%	Tue 11/8/20	Tue 13/10/20		NA	Mon 16/11/20	Tue 19/1/21	80 days 3 days		5						1		
927					0%	Thu 22/10/20	Wed 2/12/20		NA	Wed 20/1/21	Thu 4/3/21		926,925							1		
	Pile Testing (14d curing & 14 test)	35 days		35 days								73 days 3 days								1		
928	Proof-drilling Works	11 days		11 days	0%		Tue 15/12/20		NA	Fri 5/3/21	Wed 17/3/21	73 days 2 days								1		
929	Pile Cap P04 @ CH1351 with ELS	47 days		47 days	0%	Wed 16/12/20	Thu 11/2/21	NA	NA	Thu 1/4/21	Mon 31/5/21	85 days	933SS,928			<b>-</b>				1		
930	Pile Cap @ CH1351	97 days	0 days	97 days	0%	Mon 2/11/20	Mon 1/3/21	NA	NA	Tue 16/2/21	Mon 31/5/21	73 days				7				1		
931	Pilecap ELS- Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 2/11/20	Mon 2/11/20	NA	NA	Tue 16/2/21	Tue 16/2/21	106 days 1 day			<b>4</b> 2/11					1		
932	Pilecap ELS - Design and Method Statement Comment & Appraoval	30 days	0 days	30 days	0%	Mon 2/11/20	Tue 1/12/20	NA	NA	Tue 16/2/21	Wed 17/3/21	106 days 1 day	931	1								
933	Drive sheetpile (~75m). Prod. Rate: 10m/day/side/team	10 days	0 days	10 days	0%	Wed 16/12/20	Tue 29/12/20	) NA	NA	Thu 18/3/21	Mon 29/3/21	73 days 2 days	932,928	1								
934	Excavation with Shoring Installation ~2600m3 Prod. Rate: 160m3/day/team	19 days	0 days	19 days	0%	Wed 30/12/20	Thu 21/1/21	NA	NA	Tue 30/3/21	Fri 23/4/21	73 days 2 day	933									
935	Pilecap Formwork- Design and Method Statement Submission	0 days	0 days	0 days	0%	Tue 1/12/20	Tue 1/12/20	NA	NA	Thu 25/3/21	Thu 25/3/21	114 days 1 day			1/	12				1		
936	Pilecap Formworks - Design and Method Statement Comment & Appraoval	30 days	0 days	30 days	0%	Tue 1/12/20	Wed 30/12/2	0 NA	NA	Thu 25/3/21	Fri 23/4/21	114 days 1 day	935							1		
937	Pile Cap structure	19 days	0 days	19 days	0%	Fri 22/1/21	Tue 16/2/21	NA	NA	Sat 24/4/21	Mon 17/5/21	73 days 1 day	846,936,934							1		
938	Backfill and extract sheet pile	11 days	0 days	11 days	0%	Wed 17/2/21	Mon 1/3/21	NA	NA	Tue 18/5/21	Mon 31/5/21	73 days 2 days	937	-						1		
939	Pier - Temporary Design and Method Statement Submission	0 days		0 days	0%	Mon 4/1/21	Mon 4/1/21		NA	Sun 2/5/21	Sun 2/5/21	118 days 1 day		-		ali				1		
940	Pier - Temporary Design and Method Statement Comment & Appraoval	30 days		30 days	0%	Mon 4/1/21	Tue 2/2/21	NA	NA	Sun 2/5/21	Mon 31/5/21	118 days 1 day	939	-								
941	Pier P04 @ CH1351				0%	Tue 2/3/21	Fri 30/4/21		NA	Tue 1/6/21	Thu 29/7/21		938,922,211,940							1		
		49 days		49 days								73 days 1 day	930,922,211,940							1		
942	Stage 3: Bridge deck between CH1311-1351	145 days		145 days	0%	Fri 30/7/21	Fri 21/1/22		NA	Fri 30/7/21	Sat 29/1/22	0 days 1 day								1		
943	CH1311-1351: Deck Falsework erection	21 days	0 days	21 days	0%	Fri 30/7/21	Mon 23/8/21	NA	NA	Fri 30/7/21	Mon 23/8/21	0 days 3 days	941,922,879							1		
944	CH1311-1351: Structure deck	30 days		30 days	0%	Tue 24/8/21	Tue 28/9/21	NA	NA	Tue 24/8/21	Tue 28/9/21	0 days 5 days	475,483,736,896	6						1		
945	CH1311-1351: Prestressing	21 days	0 days	21 days	0%	Mon 18/10/21	Wed 10/11/2	1 NA	NA	Mon 18/10/21	Wed 10/11/21	0 days 3 days	944FS+14 days,	,8			l I I I	<b>h</b>		1		
946	CH1311-1351: Utility Trough (0.67m per day per team) x 4 team	30 days	0 days	30 days	0%	Thu 11/11/21	Wed 15/12/2	1 NA	NA	Fri 26/11/21	Mon 3/1/22	13 days 0.5 day	219,880,945					<b>Y</b>		1		
947	CH1311-1351: Central Median (6m per day per team) x 2 team	15 days	0 days	15 days	0%	Thu 11/11/21	Sat 27/11/21	NA	NA	Wed 5/1/22	Fri 21/1/22	44 days 3 days	945							1		
948	CH1311-1351: Parapet (28m per day per team) x 2 team + 6 day concreting	16 days	0 days	16 days	0%	Thu 23/12/21	Thu 13/1/22	NA	NA	Tue 4/1/22	Fri 21/1/22	7 days 1 day	945,888,890,946	6						1		
949	CH1311-1351: Road Furniture	7 days	0 days	7 days	0%	Fri 14/1/22	Fri 21/1/22	NA	NA	Sat 22/1/22	Sat 29/1/22	7 days 1 day	947,358,948					14-	_	1		
950	Part 1 - CH1372 to CH1386	149 days	0 days	149 days	0%	Mon 23/8/21	Tue 22/2/22	NA	NA	Mon 23/8/21	Tue 1/3/22	0 days								1		
951	Bridge deck between CH1351-1386	149 days	0 days	149 days	0%	Mon 23/8/21	Tue 22/2/22	NA	NA	Mon 23/8/21	Tue 1/3/22	0 days		-						1		
952	CH1351-1386: Deck Falsework erection	22 days	0 days	22 days	0%	Mon 23/8/21	Thu 16/9/21	NA	NA	Mon 23/8/21	Thu 16/9/21	0 days 4 days	941,922,898FS+	+						1		
953	CH1351-1386: Structure deck	30 days		30 days	0%	Fri 17/9/21	Mon 25/10/2		NA	Fri 17/9/21		0 days 5 days		-						1		
954	CH1351-1386: Prestressing	14 days		14 days	0%				NA	Thu 11/11/21	Fri 26/11/21	0 days 5 days						<b>T</b>		1		
955	CH1351 - CH1386: Utility Trough (0.67m per day per team) x 4 team	30 days			0%	Sat 27/11/21	Tue 4/1/22		NA	Sat 27/11/21	Tue 4/1/22	0 days 3 days		1								
956				30 days										<b>↓     </b>								
	CH1351 - CH1386: Central Median (6m per day per team) x 1 team	15 days		15 days	0%	Sat 27/11/21	Tue 14/12/21		NA	Sat 27/11/21	Tue 14/12/21	0 days 3 days										
957	CH1351 - CH1386: Parapet (28m per day per team) x 1 team + 6 day concreting	20 days		20 days	0%	Wed 5/1/22	Thu 27/1/22		NA	Wed 12/1/22	Mon 7/2/22	6 days 4 days		<b>↓     </b>								
958	CH1351-1386 Falsework removal	19 days		19 days	0%	Fri 28/1/22	Tue 22/2/22		NA	Tue 8/2/22	Tue 1/3/22	6 days 1 day	955,957	]								
959	CH1351 - CH1386: Road Furniture (Section 1)	8 days		8 days	0%	Fri 28/1/22	Wed 9/2/22	NA	NA	Mon 14/2/22	Tue 22/2/22	11 days 2 day	956,358,957	$\  \  \ $								
960	Part 1 - CH1386 to CH1394 South Abutment	352 days	0 days	352 days	0%	Fri 3/7/20	Sat 4/9/21	NA	NA	Sat 25/7/20	Thu 16/9/21	10 days		1			+++++					
961	Bored Pile (A02-BP2) @ CH1386 by Rig 1	42 days	0 days	42 days	0%	Fri 3/7/20	Thu 20/8/20	NA	NA	Sat 25/7/20	Fri 11/9/20	19 days 3 days	831FS+12 days		╍╫╫╽║							
962	Bored Pile (A02-BP1) @ CH1386 by Rig 1	63 days	0 days	63 days	0%	Tue 28/7/20	Sat 10/10/20	NA	NA	Wed 19/8/20	Tue 3/11/20	19 days 3 days	202FF,961FF+4									
963	Pile Testing	35 days	0 days	35 days	0%	Mon 12/10/20	Sat 21/11/20	NA	NA	Wed 4/11/20	Mon 14/12/20	19 days 4 days	962	$\parallel \parallel \parallel$								
	Prograith Prograss Task	Summary			Inactive Mil	lestone $\Diamond$	1	Duration-or	alv "		Start-only	Е	P	emal Milesto	ne 🔷		المالية المالية	ical Split				
	Prog with Progress	Project Sun	nmary		Inactive Niii Inactive Sur				nmary Rollup 🛭		Start-only Finish-only	]		emai Milesto adline				gress	_			
as of 22-May	/-20 Milestone ◆	Inactive Ta			Manual Tas			Manual Sui			External Task		Crit					nual Progress				

								tract No. ED												
Task N	Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	h Late Start	Late Finish	Total Slack	TRA		2020   Q3	04 01	2021   Q2   Q3	3   04   0	2022 1   Q2   Q3	Q4 Q1 Q2
964	Proof-drilling Works	11 days		11 days	0%	Mon 23/11/20	Fri 4/12/20	NA	NA	Tue 2/2/21	Wed 17/2/21	58 days	2 days	963			, <u>v</u> . Q		. , , , , , ,	X 1 V1 V2
965	South Abutment	166 days	0 days	166 days	0%	Wed 3/2/21	Thu 26/8/21	NA	NA	Thu 18/2/21	Tue 7/9/21	10 days		968SS,964						
966	South Abutment ELS- Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 4/1/21	Mon 4/1/21	NA	NA	Tue 19/1/21	Tue 19/1/21	15 days	1 day			<b>♦</b> 4/1				
967	South Abutment ELS - Design and Method Statement Comment & Appraoval	30 days	0 days	30 days	0%	Mon 4/1/21	Tue 2/2/21	NA	NA	Tue 19/1/21	Wed 17/2/21	15 days	1 day	966						
968	Drive sheetpile (~900m) Prod. Rate: 10m/d/team	11 days	0 days	11 days	0%	Wed 3/2/21	Thu 18/2/21	NA	NA	Thu 18/2/21	Tue 2/3/21	10 days	2 days	964,967,980						
969	Excavation ~1,344m3 & lateral support. Prod. Rate: 160m3/day/team	11 days		11 days	0%	Fri 19/2/21	Wed 3/3/21		NA	Mon 22/3/21	Tue 6/4/21	26 days		968						
970	Blinding layer		0 days		0%	Thu 4/3/21	Thu 4/3/21		NA	Wed 7/4/21	Wed 7/4/21	26 days		969						
		l day		1 day										909		•				
971	South Abutment Formwork- Design and Method Statement Submission			0 days	0%	Mon 21/12/20			NA	Tue 9/3/21	Tue 9/3/21	78 days				21/1	2			
072	South Abutment Formwork - Design and Method Statement Comment & Appraoval	30 days		30 days	0%	Mon 21/12/20			NA	Tue 9/3/21	Wed 7/4/21	78 days	-	971						
73	Base Slab	36 days	0 days	36 days	0%	Wed 17/3/21	Fri 30/4/21	NA	NA	Thu 8/4/21	Fri 21/5/21	16 days	2 days	970,972,986						
974	Wall (3.85m thk). Prod. Rate: 18d/bay/team	39 days	0 days	39 days	0%	Mon 3/5/21	Fri 18/6/21	NA	NA	Sat 22/5/21	Thu 8/7/21	16 days	3 days	973						
975	Wall (0.5m thk)	52 days	0 days	52 days	0%	Sat 19/6/21	Thu 19/8/21	NA	NA	Fri 9/7/21	Tue 7/9/21	16 days	2 days	974						
976	Install bridge bearing	8 days	0 days	8 days	0%	Fri 27/8/21	Sat 4/9/21	NA	NA	Wed 8/9/21	Thu 16/9/21	10 days	1 day	975,736,822,965						
977	South Approach Ramp - CH1394-1444.7 - Total 8 bays (4 bay/side)	259 days	s 0 days	259 days	0%	Mon 21/9/20	Fri 6/8/21	NA	NA	Sun 15/11/20	Sat 4/12/21	45 days								
978	South Approach Ramp ELS - Temp. Works Design and Method Statement	0 days	0 days	0 days	0%	Mon 21/9/20	Mon 21/9/20	NA	NA	Sun 15/11/20	Sun 15/11/20	55 days	1 day			21/9				
979	Submission South Approach Ramp ELS - Temp. Works Design and Method Statement	30 days	0 days	30 days	0%	Mon 21/9/20	Tue 20/10/20	) NA	NA	Sun 15/11/20	Mon 14/12/20	) 55 days	1 day	978	$\  \  \ $					
980	Comment & Approval Drive sheetpile (~240m) Prod. Rate: 10m/d/team	26 days		26 days	0%	Mon 23/11/20			NA	Tue 15/12/20	Sat 16/1/21	19 days	-	979,962,963						
81	Excavation ~2,688m3 & lateral support. Prod. Rate: 160m3/day/team				0%	Wed 23/12/20				Mon 18/1/21	Mon 8/2/21			980						
		19 days		19 days					NA			19 days	_							
82	Rock Replacement	7 days		7 days	0%	Sun 17/1/21	Sat 23/1/21		NA	Tue 9/2/21	Mon 15/2/21	23 days		981						
83	Blinding layer. Prod. Rate: 2bays/day	1 day	0 days	1 day	0%	Mon 25/1/21	Mon 25/1/21	NA	NA	Tue 16/2/21	Tue 16/2/21	16 days	1 day	981,982						
84	Sourth Approach - Formworks Design and Method Statement Submission	0 days	0 days	0 days	0%	Tue 1/12/20	Tue 1/12/20	NA	NA	Mon 18/1/21	Mon 18/1/21	48 days	1 day			♠ 1/12				
985	South Approach Ramp Formworks Design and Method Statement Comment & Appraoval	30 days	0 days	30 days	0%	Tue 1/12/20	Wed 30/12/2	0 NA	NA	Mon 18/1/21	Tue 16/2/21	48 days	1 day	984						
186	6 x Base Slab Prod. Rate: 12d/bay/team x 2 teams	40 days	0 days	40 days	0%	Tue 26/1/21	Tue 16/3/21	NA	NA	Wed 17/2/21	Wed 7/4/21	16 days	4 days	983,985,244			K			
87	6 x Wall. Prod. Rate: 12d/bay/team x 3 level x 2 teams	78 days	0 days	78 days	0%	Wed 17/3/21	Tue 22/6/21	NA	NA	Mon 28/6/21	Tue 28/9/21	82 days	6 days	986				_		
18	Backfilling ~4,765.89m3 within approach ramp to formation level (160m3/day)	38 days	0 days	38 days	0%	Wed 23/6/21	Fri 6/8/21	NA	NA	Fri 22/10/21	Sat 4/12/21	100 days	2 days	987						
	+12d shoring removal x 2 (considered time for SRT)																			
89	CH1386-1444: South Approach Ramp (50m): Parapet, Central Median & Furniture	43 days	0 days	43 days	0%	Wed 15/12/21	Wed 9/2/22	NA	NA	Wed 15/12/21	Wed 9/2/22	0 days		988				) Terret		
90	CH1386-1444: Central Median and Utilities Trough (5m per day per team) x 1 team	23 days	0 days	23 days	0%	Wed 15/12/21	Thu 13/1/22	NA	NA	Wed 15/12/21	Thu 13/1/22	0 days	2 days	253,956				The state of the s		
91	CH1386-1444: Parapet (10m per day per team) x 2 team + 2 team x 6 day concreting	13 days	0 days	13 days	0%	Fri 14/1/22	Fri 28/1/22	NA	NA	Fri 14/1/22	Fri 28/1/22	0 days	2 days	988,253,990				T T		
92	CH1386-1444: Road Furniture	7 days	0 days	7 days	0%	Sat 29/1/22	Wed 9/2/22	NA	NA	Sat 29/1/22	Wed 9/2/22	0 days	1 day	990,358,991				Tr.		
93	CH1087 - 1444: Bitumen Paving and Lighting	60 days	0 days	60 days	0%	Thu 30/12/21	Mon 14/3/22	NA	NA	Wed 15/12/21	Tue 1/3/22	-11 days	1 day	813,884,892FF,9				T.		
94	2.6 Utility Laying	1 day?	0 days	1 day?	0%	Thu 16/5/19	Thu 16/5/19	NA	NA	Wed 29/5/24	Wed 29/5/24	1840 d								
95	CH1087-1311 (224m): Utility Laying (by Others) (Agreed)	63 days		63 days	0%	Wed 29/12/21	Tue 1/3/22	NA	NA	Wed 29/12/21	Tue 1/3/22	0 days								
996	CLP (132kV)	63 days		63 days	0%	Wed 29/12/21			NA	Wed 29/12/21	Tue 1/3/22	'	1 day	899,955SS+32 d				L.N.		
97	CLP (11kV)	63 days		63 days	0%	Wed 29/12/21			NA	Wed 29/12/21	Tue 1/3/22			996SS						
													_							
98	HKCG	53 days		53 days	0%	Wed 29/12/21			NA	Sat 8/1/22	Tue 1/3/22	10 days		997SS				<b>&gt;</b>		
999	CATV	23 days		23 days	0%	Wed 29/12/21			NA	Thu 3/2/22	Fri 25/2/22	36 days	-	998SS				<b>&gt;</b> }_}-		
000	Towngas telecom	27 days	0 days	27 days	0%	Wed 29/12/21	Mon 24/1/22	NA	NA	Thu 3/2/22	Tue 1/3/22	36 days	1 day	999SS				***		
1001	PCCW-HKT	23 days	0 days	23 days	0%	Wed 29/12/21	Thu 20/1/22	NA	NA	Sun 6/2/22	Mon 28/2/22	39 days	1 day	1000SS				<b>→</b>		
1002	Fresh and Salt Watermains (by POC)	24 days	0 days	24 days	0%	Wed 29/12/21	Fri 21/1/22	NA	NA	Sun 6/2/22	Tue 1/3/22	39 days	1 day	1001SS				<b>           </b>		
1003	CH1311-1396 (85m): Utility Laying (by Others) (Agreed)	84 days	0 days	84 days	0%	Thu 7/10/21	Wed 29/12/2	1 NA	NA	Fri 4/2/22	Tue 1/3/22	62 days						<b>)</b>		
004	CLP (11kV)	26 days	0 days	26 days	0%	Wed 5/1/22	Sun 30/1/22	NA	NA	Fri 4/2/22	Tue 1/3/22	30 days	1 day	899,955						
1005	PCCW-HKT	18 days	0 days	18 days	0%	Wed 5/1/22	Sat 22/1/22	NA	NA	Sat 12/2/22	Tue 1/3/22	38 days	1 day	1004SS						
1006	Sat and Fresh Watermain (by POC)	18 days	0 days	18 days	0%	Wed 5/1/22	Sat 22/1/22	NA	NA	Sat 12/2/22	Tue 1/3/22	38 days	1 day	1005SS						
1007	Underpass and Depressed Road				0%	Tue 3/9/19		Tue 3/9/19		Tue 3/9/19	Tue 1/3/22	120 days			$\parallel \parallel \parallel$					
		227 days	anys								113122									
Ha. D.: 44	Drog with Drogress Task	Summary			Inactive M	filestone $\Diamond$		Duration-o	nly		Start-only		<b>C</b>	External M	lilestone	<b>♦</b>		Critical Split		
tle: Rev.11 s of 22-Ma	Prog with Progress	Project Sur	nmary		Inactive S				mmary Rollup		Finish-only		]	Deadline		•		Progress		
5 UI ZZ-IVIC	Milestone ♦	Inactive Ta	sk		Manual Ta	ask		Manual Su	mmary I		External Ta	sks		Critical				Manual Progra	ess	

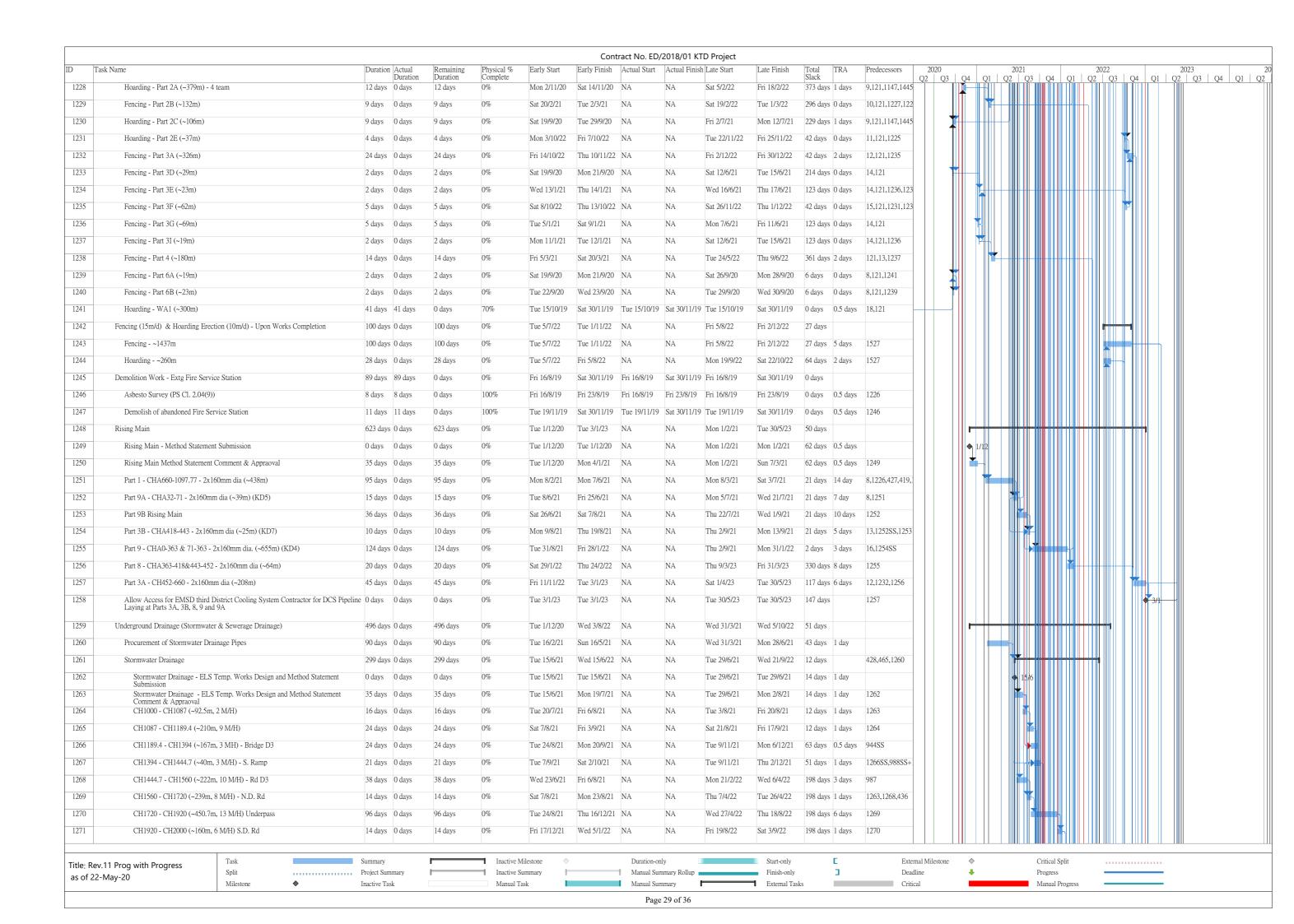
		_	1.					tract No. ED/			-			-								 
Task l	Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack		Predecessors	2020 Q2 Q3	Q4	Q1	2021 Q2   Q	3   Q4	4 Q1	2022   Q2	Q4
08	North Depressed Rd (CH1560-1720)	562 days	211.42 days	350.58 days	0%	Tue 3/9/19	Tue 27/7/21	Tue 3/9/19	NA	Tue 3/9/19	Tue 1/3/22	177 days	5									
)9	Ground Monitoring Works	17 days	17 days	0 days	100%	Tue 3/9/19	Thu 19/9/19	Tue 3/9/19	Thu 19/9/19	Tue 3/9/19	Thu 19/9/19	0 days	2 days									
10	Mobilization	7 days	7 days	0 days	100%	Fri 1/11/19	Fri 8/11/19	Fri 1/11/19	Fri 8/11/19	Fri 1/11/19	Fri 8/11/19	0 days	0 days									
11	Complete the Diveration of Existing Overhang Cable along the North Depressed	1 day	1 day	0 days	100%	Sat 26/10/19	Sat 26/10/19	Sat 26/10/19	Sat 26/10/19	Sat 26/10/19	Sat 26/10/19	0 days	0.5 days									
2	Drive Sheet Pile (380m, 15,000m penetration depth) Prod. Rate by 2 teams	39 days	39 days	0 days	100%	Fri 22/11/19	Thu 9/1/20	Fri 22/11/19	Thu 9/1/20	Fri 22/11/19	Thu 9/1/20	0 days	0.5 days	1009,1010,1011								
	(around 125m penetration depth per day per team)																					
13	Pumping Test	120 days	75 days	45 days	0%	Thu 20/2/20	Fri 17/7/20	Thu 20/2/20	NA	Thu 20/2/20	Sat 18/7/20	1 day	0.5 days	1012								
14	CH1560 - CH1720 North Depress Road	449 days	98.66 days	350.34 days	0%	Mon 20/1/20	Tue 27/7/21	Mon 20/1/20	NA	Mon 20/1/20	Tue 1/3/22	177 days	;				₩					
15	Excavation with Shoring Installation - Prod Rate: 270m3/d/team. (~36.611m3), 1 team	145 days	98 days	47 days	0%	Mon 20/1/20	Sat 18/7/20	Mon 20/1/20	NA	Mon 20/1/20	Sat 18/7/20	-11 days	1 day	1012								
16	CNCE No. 73 - April 2020 Inclement Weather	8 days	0 days	8 days	0%	Mon 20/7/20	Tue 28/7/20	NA	NA	Tue 7/7/20	Wed 15/7/20	-11 days		1015,73								
7	May 2020 - Inclement Weather	3 days	0 days	3 days	0%	Wed 29/7/20	Fri 31/7/20	NA	NA	Thu 16/7/20	Sat 18/7/20	-11 days		1016,74								
.8	Rock Fill Replacement (Final Level)	6 days	0 days	6 days	0%	Sat 1/8/20	Fri 7/8/20	NA	NA	Mon 20/7/20	Sat 25/7/20	-11 days		1013,1015,1017	#							
19	6 Bay Base Slabs + 3 Levels Wall Both Sides	55 days		55 days	0%	Wed 3/6/20		NA	NA	Thu 21/5/20	Sat 25/7/20	-11 days		1015SS+107 day								
20	Base Slab and Wall Below 4th Level Shoring	25 days		25 days	0%	Sat 8/8/20		NA	NA	Mon 27/7/20	Mon 24/8/20			1019,1015,1018								
21	Backfilling and 4th Level Shoring Removal	18 days		18 days	0%	Mon 7/9/20	Sat 26/9/20		NA	Tue 25/8/20	Mon 14/9/20	-11 days		1020								
22	Wall Construction (between 3rd and 4th levels shoring) and Remaining Base Slab			24 days	0%	Mon 28/9/20	Wed 28/10/20		NA	Tue 15/9/20	Wed 14/10/20			1021								
23	Backfilling and 3rd Level Shoring Removal	18 days	0 days	18 days	0%	Thu 29/10/20	Wed 18/11/20	) NA	NA	Thu 15/10/20	Thu 5/11/20	-11 days		1022								
24	Structure Works Below 2nd & 3rd Levels Shoring	23 days	0 days	23 days	0%	Thu 19/11/20	Tue 15/12/20	NA	NA	Fri 6/11/20	Wed 2/12/20	-11 days		1023								
25	Backfilling and 2nd Level Shoring Removal	18 days	0 days	18 days	0%	Wed 16/12/20	Fri 8/1/21	NA	NA	Thu 3/12/20	Wed 23/12/20	-11 days		1024								
26	Remaining Wall Construction	30 days	0 days	30 days	0%	Sat 9/1/21	Tue 16/2/21	NA	NA	Thu 24/12/20	Sat 30/1/21	-11 days		1025								
7	Backfill & extract sheet pile (CH1560 to CH1720)	26 days	0 days	26 days	0%	Wed 17/2/21	Thu 18/3/21	NA	NA	Mon 1/2/21	Fri 5/3/21	-11 days	1 day	1026			<b>1</b>					
8	Emergency walkway & median barrier installation	20 days	0 days	20 days	0%	Tue 1/6/21	Thu 24/6/21	NA	NA	Mon 3/1/22	Tue 25/1/22	177 days	2 days	1027				4				
29	Parapet installation	27 days	0 days	27 days	0%	Fri 25/6/21	Tue 27/7/21	NA	NA	Wed 26/1/22	Tue 1/3/22	177 days	3 days	1028				<b>.</b>				
0	CH1720 - CH1850 (130m long) (2 x teams)	477 days	o davs	477 days	0%	Mon 15/6/20	Mon 4/10/21	NA	NA	Mon 15/6/20	Mon 4/10/21	0 days										
1	Drive sheet pile (approx. 17000m penetration depth, 380m/day)	46 days		46 days	0%	Mon 15/6/20	Sat 8/8/20	NA	NA	Mon 15/6/20	Sat 8/8/20	0 days	2 day									
2	Pumping Test	22 days		22 days	0%	Mon 10/8/20	Thu 3/9/20		NA	Mon 10/8/20	Thu 3/9/20	0 days		1031,1045	▎▕▔▁							
												1		1031,1043								
13	CH1720 - CH1850 (130m long) (2 x teams) Top Portion: Excavation with Shoring Installation = 23,000 cu.m. (320m3/d/team x 2)	42 days	0 days	42 days	0%	FII 4/9/20	Sat 24/10/20	NA	NA	Fri 4/9/20	Sat 24/10/20	0 days	2 day	1032								
4	CH1720 - CH1850 (130m long) (2 x teams) Bottom Portion: Excavation with	52 days	0 days	52 days	0%	Tue 27/10/20	Mon 28/12/20	) NA	NA	Tue 27/10/20	Mon 28/12/20	0 days	1 day	1033								
	Shoring Installation = 23,876 cu.m. (250m3/d/team x 2)																					
35	Rock fill - Prod. Rate: (3,469m3) (160m3/d/team. 2 team)	6 days	0 days	6 days	0%	Tue 29/12/20	Tue 5/1/21	NA	NA	Tue 29/12/20	Tue 5/1/21	0 days	1 day	1033,1034								
36	Base Slab - 8 bays. Prod. Rate: 12d/team/bay include pipe laying. 4 teams	26 days	0 days	26 days	0%	Wed 3/3/21	Thu 1/4/21	NA	NA	Wed 3/3/21	Thu 1/4/21	0 days	2 day	1035,1042,262								
37	Wall - 8 bays. Prod. Rate: 3 level of shoring 12d/bay/level/team. 4 teams	75 days	0 days	75 days	0%	Tue 6/4/21	Tue 6/7/21	NA	NA	Tue 6/4/21	Tue 6/7/21	0 days	3 days	1036								
38	Top Slab - 8 bays. Prod. Rate: 18d/team/bay, 4 teams	38 days	0 days	38 days	0%	Wed 7/7/21	Thu 19/8/21	NA	NA	Wed 7/7/21	Thu 19/8/21	0 days	2 day	1037					<mark>Կ</mark>			
39	Falsework Removal	37 days	0 days	37 days	0%	Fri 20/8/21	Mon 4/10/21	NA	NA	Fri 20/8/21	Mon 4/10/21	0 days	2 day	1038					<b>*</b>			
10	Sheetpile Extraction and Backfill	13 days	0 days	13 days	0%	Fri 20/8/21	Fri 3/9/21	NA	NA	Fri 17/9/21	Mon 4/10/21	24 days	1 day	1038					+			
41	Underground Plant Room next to Underpass	45 days	0 days	45 days	0%	Wed 6/1/21	Tue 2/3/21	NA	NA	Wed 6/1/21	Tue 2/3/21	0 days										
12	Underground pump house structure	45 days		45 days	0%	Wed 6/1/21		NA	NA	Wed 6/1/21	Tue 2/3/21		3 day	714,1035,262,28								
13	Underpass & South Depressed Road CH1850-1950 - (100m long) 8 bays x 13.5m long			54.64 days	0%	Wed 26/2/20		Wed 26/2/20		Wed 26/2/20	Sat 8/8/20	14 days		,,_,_,								
14			_										5 days		"							
	Drive sheet pile (12,530m embedded length sheetpile) Prod. Rate 380m/team/day	32 days		0 days	100%	Wed 26/2/20	Mon 6/4/20	Wed 26/2/20		Wed 26/2/20	Mon 6/4/20	0 days		1044								
15	Pumping Test		29 days	51 days	36%	Fri 17/4/20		Fri 17/4/20		Fri 17/4/20	Sat 8/8/20	-	_	1044								
6	Underpass & South Depress Road (CH1850 to CH1950)			511.36 days	0%	Thu 23/4/20		Thu 23/4/20		Thu 23/4/20	Tue 1/3/22	139 days										
7	Excavation with Shoring Installation (Upper Portion) - Prod. Rate: 270m3/d/team. 1 team 16,000m3)	80 days	24 days	56 days	23%	Thu 23/4/20	Thu 30/7/20	Thu 23/4/20	NA	Thu 23/4/20	Fri 4/9/20	31 days	5 days	1045SS+6 days		$H \parallel \parallel \parallel$						
18	Excavation with Shoring Installation (Lower Portion) - Prod. Rate: 270m3/d/team. 1 team 16,000m3)	65 days	0 days	65 days	0%	Fri 31/7/20	Fri 16/10/20	NA	NA	Sat 5/9/20	Mon 23/11/20	31 days	5 day	1047,1045FF+12 days								
19	Rock fill - Prod. Rate: 160m3/d/team (1,745m3)	7 days	0 days	7 days	0%	Sat 17/10/20	Sat 24/10/20	NA	NA	Tue 24/11/20	Tue 1/12/20	31 days	1 day	1047,1048			+					
50	Blinding	1 day	0 days	1 day	0%	Tue 27/10/20	Tue 27/10/20	NA	NA	Wed 2/12/20	Wed 2/12/20	31 days	0.5 days	1049								
			1		1																	
e: Rev.11	i Prog with Progress	Summary			Inactive M			Duration-or	-		Start-only		E .		mal Milestone	<b>♦</b>				al Split		 
of 22-M	ay-20 Split	Project Sun Inactive Ta			Inactive Su  Manual Ta			<ul><li>Manual Sur</li><li>Manual Sur</li></ul>	mmary Rollup		Finish-only  External Tasi		3	Dead Criti		•			Progre	ess al Progress	-	

		T	Α	D	D1 · · · ·	P 1 ~	P 1 P	A . • ~	A	11.6	1	m , 1	D 1	0			2022		2022
Task	Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Fin	ish Late Start	Late Finish	Total TRA Slack	Predecessors 202 Q2		Q1   Q2   C	Q3   Q4   Q1	2022   Q2   Q3   Q	24_ Q1	2023 Q2   Q3
051	Underpass Formworks Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 14/9/20	Mon 14/9/20	NA	NA	Tue 3/11/20	Tue 3/11/20	50 days 1 day		<b>4</b> 14/9					
052	Underpass Formworks Design and Method Statement Comment & Appraoval	30 days	0 days	30 days	0%	Mon 14/9/20	Tue 13/10/20	NA	NA	Tue 3/11/20	Wed 2/12/20	50 days 1 day	1051						
053	Casting base slab (12d/bay/team x 3) (6 bays)	26 days	0 days	26 days	0%	Wed 28/10/20	Thu 26/11/20	NA	NA	Thu 3/12/20	Tue 5/1/21	31 days 2 day	1050,1052,262						
054	Waterproofing & Bacfilling before S3 Shoring Removal	12 days	0 days	12 days	0%	Fri 27/11/20	Thu 10/12/20	NA	NA	Wed 6/1/21	Tue 19/1/21	31 days 1 day	1053						
055	S3 Shoring ELS Removal + North/South End Re-propping	7 days	0 days	7 days	0%	Fri 11/12/20	Fri 18/12/20	NA	NA	Wed 20/1/21	Wed 27/1/21	31 days 1 day	1054						
056	Wall Construction up to soffit of S2 Shoring (12d/bay/team x 3) (6 bays)	24 days	0 days	24 days	0%	Sat 19/12/20	Tue 19/1/21	NA	NA	Thu 28/1/21	Sat 27/2/21	31 days 2 day	1055						
057	Waterproofing & Bacfilling before S2 Shoring Removal	12 days	0 days	12 days	0%	Wed 20/1/21	Tue 2/2/21	NA	NA	Mon 1/3/21	Sat 13/3/21	31 days 1 day	1056						
058	S2 Shoring ELS Removal + North/South End Re-propping	7 days	0 days	7 days	0%	Wed 3/2/21	Wed 10/2/21	NA	NA	Mon 15/3/21	Mon 22/3/21	31 days 1 day	1057		R				
059	Wall Construction up to soffit of S1 Shoring (12d/bay/team x 3) (6 bays)	24 days	0 days	24 days	0%	Thu 11/2/21	Sat 13/3/21	NA	NA	Tue 23/3/21	Thu 22/4/21	31 days 2 day	1058						
060	Waterproofing & Bacfilling before S1 Shoring Removal	12 days	0 days	12 days	0%	Mon 15/3/21	Sat 27/3/21	NA	NA	Fri 23/4/21	Fri 7/5/21	31 days 1 day	1059						
061	S1 Shoring ELS Removal + North/South End Re-propping	7 days		7 days	0%	Mon 29/3/21	Thu 8/4/21	NA	NA	Sat 8/5/21	Sat 15/5/21	31 days 1 day	1060						
062	Scaffold erection for roof slab	24 days		24 days	0%	Fri 9/4/21	Fri 7/5/21	NA	NA	Mon 17/5/21	Tue 15/6/21	31 days 2 day	1061						
063	Roof slab construction (18d/bay/team x 3) (6 bays)	42 days		42 days	0%	Sat 8/5/21	Mon 28/6/21		NA	Wed 16/6/21	Wed 4/8/21	31 days 4 days	1062						
064	Waterproofing & Backfilling upto tunnel top	28 days		28 days	0%	Tue 29/6/21	Sat 31/7/21		NA	Thu 5/8/21	Mon 6/9/21	31 days 4 days	1063						
065																			
	Scaffold removal after 28 days from casting	22 days		22 days	0%	Mon 26/7/21	Thu 19/8/21		NA	Thu 13/1/22	Thu 10/2/22	141 days 1 day	1063FS+22 days						
066	Sheetpile extraction (Ch1851-CH1950)	22 days		22 days	0%	Mon 2/8/21	Thu 26/8/21		NA	Tue 7/9/21	Mon 4/10/21	31 days 1 day	1064						
067	Emergency walkway & median barrier installation			9 days	0%	Fri 24/9/21	Tue 5/10/21		NA	Fri 11/2/22	Mon 21/2/22	112 days 1 day	323,1066,1040,1						
068	Parapet installation	7 days	0 days	7 days	0%	Wed 6/10/21	Wed 13/10/2	1 NA	NA	Tue 22/2/22	Tue 1/3/22	112 days 1 day	1067						
069	CH1950 - CH2020 (70m long) (2 x teams) 4 bays x $17.5$ m long - Average 3 layers of shoring	209 days	s 0 days	209 days	0%	Fri 19/3/21	Mon 29/11/2		NA	Sat 6/3/21	Tue 1/3/22	-11 days							
070	Drive sheet pile (approx. 8,800m embedded length sheetpile), 380m/team/day	24 days	0 days	24 days	0%	Fri 19/3/21	Mon 19/4/21	NA	NA	Sat 6/3/21	Tue 6/4/21	-11 days 1 day	1027			$\rightarrow$			
071	Excavation with Shoring Installation - Prod. Rate: 2 teams x 250m3/d/team. (14,500m3)	30 days	0 days	30 days	0%	Tue 20/4/21	Wed 26/5/21	NA	NA	Wed 7/4/21	Wed 12/5/21	-11 days 1 day	1049,1070						
072	Rock Fill Replacement	6 days	0 days	6 days	0%	Thu 27/5/21	Wed 2/6/21	NA	NA	Thu 13/5/21	Thu 20/5/21	-11 days 0.5 days	1071		H				
073	Blinding	1 day	0 days	1 day	0%	Thu 3/6/21	Thu 3/6/21	NA	NA	Fri 21/5/21	Fri 21/5/21	-11 days 0.5 days	1071,1072						
074	Base Slab - 4 bays. Prod. Rate: 12d/team/bay include pipe laying. 2 team	26 days	0 days	26 days	0%	Fri 4/6/21	Tue 6/7/21	NA	NA	Sat 22/5/21	Tue 22/6/21	-11 days 2 days	1073						
075	Wall - 4 bays. Prod. Rate: 3 level of shoring 12d/bay/level/team. 2 teams	67 days	0 days	67 days	0%	Wed 16/6/21	Thu 2/9/21	NA	NA	Wed 2/6/21	Fri 20/8/21	-11 days 6 days	1074SS+9 days			■			
076	Backfill & extract sheet pile (CH1950 to CH2020)	25 days	0 days	25 days	0%	Fri 3/9/21	Mon 4/10/21	NA	NA	Sat 21/8/21	Sat 18/9/21	-11 days 2 days	1075						
077	CH1950 to CH2020: Emergency walkway & median barrier installation	20 days	0 days	20 days	0%	Tue 5/10/21	Thu 28/10/21	NA	NA	Mon 3/1/22	Tue 25/1/22	73 days 2 days	1075,1076			₩.			
078	CH1950 to CH2020: Pavement work	7 days	0 days	7 days	0%	Fri 29/10/21	Fri 5/11/21	NA	NA	Wed 26/1/22	Sat 5/2/22	73 days 1 day	1077			T I			
079	CH1950 to CH2020: Parapet installation	20 days	0 days	20 days	0%	Sat 6/11/21	Mon 29/11/2	1 NA	NA	Mon 7/2/22	Tue 1/3/22	73 days 2 day	1076,1077,1078			<b>\</b>			
080	South Depressed Road CH2020-2050 (40m long) (2 x teams) 5 bays x 13.5m long -	134 days	s 0 days	134 days	0%	Mon 2/8/21	Tue 11/1/22	NA	NA	Sun 5/9/21	Tue 1/3/22	30 days							
081	Average 2 layers of shoring  Open Excavation	17 days		17 days	0%	Tue 5/10/21	Mon 25/10/2	1 NA	NA	Mon 20/9/21	Mon 11/10/21	-11 days 3 days	1076			<b>Y</b>			
082	Blinding	2 days		2 days	0%	Tue 26/10/21	Wed 27/10/2		NA	Tue 12/10/21		-11 days 0 days							
083	South Depress Road - Formworks Design and Method Statement Submission	0 days		0 days	0%	Mon 2/8/21	Mon 2/8/21		NA	Sun 5/9/21	Sun 5/9/21	34 days 1 day				2/8			
084	South Depress Road - Formworks Design and Method Statement Comment &	40 days		40 days	0%	Mon 2/8/21	Fri 10/9/21		NA	Sun 5/9/21	Thu 14/10/21		1083						
085	Appraoval  Base Slab - 3 bays. Prod. Rate: 12d/team/bay include pipe laying. 2 teams				0%	Thu 28/10/21			NA NA	Fri 15/10/21	Thu 14/10/21		1082,1084,314						
		12 days		12 days															
086	Wall - 3 bays. Prod. Rate: 2 level of shoring 12d/bay/level/team. 2 teams	12 days		12 days	0%	Fri 12/11/21	Thu 25/11/21		NA	Sat 30/10/21	Fri 12/11/21	-11 days 0.5day	1085SS+13 days						
087	Wall - 3 bays. Prod. Rate: 2 level of shoring 12d/bay/level/team. 2 teams	12 days		12 days	0%	Sat 20/11/21	Fri 3/12/21		NA	Mon 8/11/21	Sat 20/11/21	-11 days 0.5day	1086SS+7 days			7			
088	Backfill & extract sheet pile	19 days		19 days	0%	Fri 26/11/21	Fri 17/12/21		NA	Fri 14/1/22	Tue 8/2/22	39 days 1 day	1086						
089	Curing and Formwork Ramoval	19 days		19 days	0%	Fri 26/11/21	Fri 17/12/21		NA	Thu 30/12/21	Fri 21/1/22	27 days 1 day	1086						
090	Emergency walkway & median barrier installation	6 days	0 days	6 days	0%	Sat 18/12/21	Fri 24/12/21	NA	NA	Wed 9/2/22	Tue 15/2/22	39 days 2 days	1086,1088,323			14			
091	Pavement work	6 days	0 days	6 days	0%	Tue 28/12/21	Tue 4/1/22	NA	NA	Wed 16/2/22	Tue 22/2/22	39 days 1 day	1090						
092	Parapet installation	6 days	0 days	6 days	0%	Wed 5/1/22	Tue 11/1/22	NA	NA	Wed 23/2/22	Tue 1/3/22	39 days 1 day	1090,1088,1091						
093	5.0 CH1386-1950 (564m): Utlity Laying Team 2 (by Others)	332 days	s 0 days	332 days	0%	Sat 17/4/21	Mon 14/3/22	NA	NA	Thu 19/8/21	Tue 1/3/22	-13 days							
094	CLP (132kV)	30 days	0 days	30 days	0%	Fri 14/1/22	Sat 12/2/22	NA	NA	Mon 31/1/22	Tue 1/3/22	17 days 1 day	946,990,1027						
095	HKCG	18 days	0 days	18 days	0%	Fri 14/1/22	Mon 31/1/22	NA	NA	Tue 25/1/22	Fri 11/2/22	11 days 1 day	946,990,1027						
	1 Drog with Drogress Task	Summary			Inactive N	filestone 🔷		Duration-c	nlv		Start-only	Е	External Mile	stone 🔷	<u>                                      </u>	Critical Split	<u></u>		
	1 Prog with Progress lay-20	Project Sur	mmary		Inactive S				mmary Rollup		Finish-only	3	Deadline			Progress			

1107	HGC CATV  Towngas telecom  North & South Depress Raod and Underpass: Finishing and E&M Works Finishing & Fitting Out Work, and E&M Works Installation  Pump Room Next to Underpass: Finishing and E&M Works Finishing Works and E&M installation  Pump Installation  Testing and Commissioning  Planned Completion for Section 1  tions 2,4 and 8  Offsite 14 units of precast box culvert with outfall fabrication  MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	Duration  15 days  13 days  15 days  120 days  120 days  120 days  158 days  60 days  25 days  0 days  824 days  45 days	Duration 0 days 0 days 0 days s 0 days s 0 days	Remaining Duration 15 days 13 days 15 days 120 days 120 days 158 days 60 days 25 days 0 days 824 days	Physical % Complete 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	Early Start  Fri 21/1/22  Fri 28/1/22  Fri 4/2/22  Tue 5/10/21  Tue 5/10/21  Sat 17/4/21  Sat 17/4/21  Fri 16/7/21  Sat 25/9/21	Early Finish Fri 4/2/22	NA	D/2018/01 K t Actual Finis NA		Tue 1/3/22 Tue 1/3/22 Tue 1/3/22	Total Slack 11 days 1 day 11 days 1 day 11 days 1 day 0 days		2020   Q3	Q4 Q1	202 Q2		Q1   0	2022 Q2   Q2	23 Q4	l Q1	2023   Q2
1097   1098   1098   1099   1100   11101   1102   11103   11104   11105   11106   Sec.   11107   (7	Towngas telecom  North & South Depress Raod and Underpass: Finishing and E&M Works  Finishing & Fitting Out Work, and E&M Works Installation  Pump Room Next to Underpass: Finishing and E&M Works  Finishing Works and E&M installation  Pump Installation  Testing and Commissioning  Planned Completion for Section 1  tions 2,4 and 8  Offsite 14 units of precast box culvert with outfall fabrication  MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	13 days 15 days 120 days 120 days 158 days 73 days 60 days 25 days 0 days 824 days 100 days 45 days	0 days 0 days 0 days s 0 days s 0 days	15 days 13 days 15 days 120 days 120 days 158 days 73 days 60 days 25 days 0 days	0% 0% 0% 0% 0% 0% 0%	Fri 28/1/22 Fri 4/2/22 Tue 5/10/21 Tue 5/10/21 Sat 17/4/21 Sat 17/4/21 Fri 16/7/21	Wed 9/2/22 Fri 18/2/22 Tue 1/3/22 Tue 1/3/22 Tue 26/10/21 Thu 15/7/21	NA NA NA NA NA	NA NA NA NA NA	Tue 8/2/22  Tue 15/2/22  Tue 5/10/21  Tue 5/10/21	Sun 20/2/22 Tue 1/3/22 Tue 1/3/22	11 days 1 day 11 days 1 day 11 days 1 day	1095SS+7 days, 1096SS+7 days	Ų3	V4   V	Q2	<u>v</u> s (4	) I	QZ Q	<i>ξ</i> 3   <b>Q</b> 4	+ VI	<u> </u>
1098 1099 11100 11101 11102 11103 11104 11105 11106 Sec 11107 (7) 11108 11109 11110	Towngas telecom  North & South Depress Raod and Underpass: Finishing and E&M Works  Finishing & Fitting Out Work, and E&M Works Installation  Pump Room Next to Underpass: Finishing and E&M Works  Finishing Works and E&M installation  Pump Installation  Testing and Commissioning  Planned Completion for Section 1  tions 2,4 and 8  Offsite 14 units of precast box culvert with outfall fabrication  MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	15 days 120 days 120 days 158 days 73 days 60 days 25 days 0 days 824 days 100 days	0 days s 0 days s 0 days s 0 days	15 days 120 days 120 days 158 days 73 days 60 days 25 days 0 days	0% 0% 0% 0% 0%	Fri 4/2/22 Tue 5/10/21 Tue 5/10/21 Sat 17/4/21 Sat 17/4/21 Fri 16/7/21	Fri 18/2/22 Tue 1/3/22 Tue 1/3/22 Tue 26/10/21 Thu 15/7/21	NA NA NA NA	NA NA NA	Tue 15/2/22 Tue 5/10/21 Tue 5/10/21	Tue 1/3/22 Tue 1/3/22	11 days 1 day						>= >=-				
11099   11100   11101   11102   11103   11104   11105   11106   Sec.   11107   (7)	North & South Depress Raod and Underpass: Finishing and E&M Works Finishing & Fitting Out Work, and E&M Works Installation  Pump Room Next to Underpass: Finishing and E&M Works Finishing Works and E&M installation  Pump Installation  Testing and Commissioning  Planned Completion for Section 1  tions 2,4 and 8  Offsite 14 units of precast box culvert with outfall fabrication  MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	120 days 120 days 158 days 73 days 60 days 25 days 0 days 824 days 100 days	s 0 days s 0 days s 0 days	120 days 120 days 120 days 158 days 73 days 60 days 25 days 0 days	0% 0% 0% 0% 0%	Tue 5/10/21 Tue 5/10/21 Sat 17/4/21 Sat 17/4/21 Fri 16/7/21	Tue 1/3/22  Tue 1/3/22  Tue 26/10/21  Thu 15/7/21	NA NA NA NA	NA NA NA	Tue 5/10/21 Tue 5/10/21	Tue 1/3/22		1097SS+7 days					<b>**</b>				
1100   1101   1102   1103   1104   1105   1106   Sec   1107   (7   1108   1109   1110   1110	Finishing & Fitting Out Work, and E&M Works Installation  Pump Room Next to Underpass: Finishing and E&M Works  Finishing Works and E&M installation  Pump Installation  Testing and Commissioning  Planned Completion for Section 1  tions 2,4 and 8  Offsite 14 units of precast box culvert with outfall fabrication  MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	120 days 158 days 73 days 60 days 25 days 0 days 824 days 100 days	s 0 days s 0 days	120 days 158 days 73 days 60 days 25 days 0 days	0% 0% 0% 0%	Tue 5/10/21 Sat 17/4/21 Sat 17/4/21 Fri 16/7/21	Tue 1/3/22  Tue 26/10/21  Thu 15/7/21	NA NA NA	NA NA	Tue 5/10/21		0 davs					411 1111111111111	<b>.</b>				
1101   1102   1103   1104   1105   1106   Sec.   1107   (7   1108   11109   11100   111100   111100   111100   111100   111100   111100   111100   111100   111100   111100   111100   111100   111100   111100   111100   111100   111100   111100   111100   1	Pump Room Next to Underpass: Finishing and E&M Works  Finishing Works and E&M installation  Pump Installation  Testing and Commissioning  Planned Completion for Section 1  tions 2,4 and 8  Offsite 14 units of precast box culvert with outfall fabrication  MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	158 days 73 days 60 days 25 days 0 days 824 days 100 days	o days	158 days 73 days 60 days 25 days 0 days	0% 0% 0%	Sat 17/4/21 Sat 17/4/21 Fri 16/7/21	Tue 26/10/21 Thu 15/7/21	NA NA	NA		m 4/0/00						///	ann 111 <b>6</b> 111			'	
1102   1103   1104   1105   1106   Sec   1107   (7   1108   11109   11110   1110   1110   1110   1110   1110	Finishing Works and E&M installation  Pump Installation  Testing and Commissioning  Planned Completion for Section 1  tions 2,4 and 8  Offsite 14 units of precast box culvert with outfall fabrication  MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	73 days 60 days 25 days 0 days 824 days 100 days	0 days 0 days 0 days 0 days 0 days 0 days	73 days 60 days 25 days 0 days	0% 0%	Sat 17/4/21 Fri 16/7/21	Thu 15/7/21	NA		Thu 10/9/21	Tue 1/3/22	0 days 8 days	306,271,323,108								r III. II.	1 11111
1103   1104   1105   1106   Sec.   1107   (7   1108   11109   11110	Pump Installation  Testing and Commissioning  Planned Completion for Section 1  tions 2,4 and 8  Offsite 14 units of precast box culvert with outfall fabrication  MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	60 days 25 days 0 days 824 days 100 days	0 days 0 days 0 days s 0 days	60 days 25 days 0 days	0%	Fri 16/7/21			NI A	111U 17/0/21	Tue 1/3/22	102 days										
1104   1105   1106   Sec   1107   (7   1108   11109   11110   1110   1110   1110   1110   1110   1110   1110   1110	Testing and Commissioning  Planned Completion for Section 1  tions 2,4 and 8  Offsite 14 units of precast box culvert with outfall fabrication  MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	25 days 0 days 824 days 100 days 45 days	0 days 0 days s 0 days	25 days 0 days	0%		Fri 24/9/21		NA	Thu 19/8/21	Mon 15/11/21	102 days 3 days	1042FS+36 days			+						
1105 Sec. 11106 Sec. 11107 (11108 11109 11110	Planned Completion for Section 1  tions 2,4 and 8  Offsite 14 units of precast box culvert with outfall fabrication  MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	0 days 824 days 100 days 45 days	0 days s 0 days	0 days		Sat 25/9/21		NA	NA	Tue 16/11/21	Thu 27/1/22	102 days 2 days	1102									
1106 Sec 1107 6 1108 1 1109 1	Offsite 14 units of precast box culvert with outfall fabrication  MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	824 days 100 days 45 days	s 0 days		0%		Tue 26/10/21	NA	NA	Fri 28/1/22	Tue 1/3/22	102 days 1 days	1102,1103									
1107 0 1108 1 1109 1	Offsite 14 units of precast box culvert with outfall fabrication  MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	100 days 45 days		824 days		Mon 14/3/22	Mon 14/3/22	NA	NA	Tue 1/3/22	Tue 1/3/22	-13 days	1408,1414,1068,					1	14/3			
1108 1 1109 1 1110	MDN application  Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers	45 days	s 0 days		0%	Mon 10/8/20	Wed 17/5/23	NA	NA	Mon 17/8/20	Wed 29/5/24	6 days		-								_
1109	Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)  Installation of Silt Curtain with Concrete Sinkers			100 days	0%	Mon 19/10/20	Fri 19/2/21	NA	NA	Thu 3/12/20	Thu 8/4/21	38 days 30 days	406,414		,							
1110	Installation of Silt Curtain with Concrete Sinkers	67 dove	0 days	45 days	0%	Mon 26/10/20	Wed 9/12/20	NA	NA	Sun 21/1/24	Tue 5/3/24	1182 d 1 days										
		U/ uays	0 days	67 days	0%	Thu 10/12/20	Thu 4/3/21	NA	NA	Wed 6/3/24	Wed 29/5/24	962 days			<sub> </sub>							
		6 days		6 days	0%	Thu 10/12/20	Wed 16/12/20	0 NA	NA	Thu 23/5/24	Wed 29/5/24	1023 d 1 day	1108									
1111		37 days		37 days	0%	Thu 10/12/20	Mon 25/1/21	NA	NA	Wed 6/3/24	Mon 22/4/24	962 days 1 day	1108		-							
1112	Grade 200 rock filiing and placing levelling stone	30 days		30 days	0%	Tue 26/1/21		NA	NA	Tue 23/4/24		962 days 1 day	1111									
	CH86 to CH70 ELS Works	136 days		136 days	0%	Mon 10/8/20	Thu 21/1/21	NA	NA	Mon 17/8/20	Sat 27/2/21	6 days										
1114		25 days		25 days	0%	Mon 10/8/20	Mon 7/9/20		NA	Mon 17/8/20		6 days 1 days										
1115		25 days		25 days	0%	Tue 8/9/20	Thu 8/10/20		NA	Tue 15/9/20		6 days 1 days	1114									
1116	·	50 days		50 days	0%	Fri 16/10/20	Mon 14/12/20		NA	Fri 16/10/20		0 days 1 day	1420,1423,1115									
1117		12 days		12 days	0%	Tue 15/12/20			NA	Tue 22/12/20	Thu 7/1/21	6 days 3 day	1116									
1118		18 days		18 days	0%		Thu 21/1/21		NA	Thu 4/2/21	Sat 27/2/21		1117									
		43 days		43 days	0%		Thu 7/1/21	NA	NA	Mon 16/11/20	Thu 7/1/21	0 days	1117									
1120	Sheetpiling Installation (80m on plan)			14 days	0%		Tue 1/12/20		NA	Mon 16/11/20	Tue 1/12/20		1116SS+25 days									
1120		14 days		-	0%		Thu 7/1/21		NA NA			0 days 0.3 day	1									
1121	Preparation of Formation and Laying of Blinding Layer	29 uays	0 days	29 days	070	W Eu 2/12/20	111u //1/21	INA	IVA	W Cu 2/12/20	111u //1/21	0 days 1 day	1120									
1122	DCS Seawater Intake (Insitu Section Bay 15)	41 days	0 days	41 days	0%	Fri 8/1/21	Sat 27/2/21	NA	NA	Fri 8/1/21	Sat 27/2/21	0 days 1 days			1							
1123	Construction of Cast in-situ Box Culvert with feeder pipe installation with Connection to Extisting Box Culvert(Bay 15, approx. 12m long)	41 days	0 days	41 days	0%	Fri 8/1/21	Sat 27/2/21	NA	NA	Fri 8/1/21	Sat 27/2/21	0 days 1 day	1117,1121									
1104		151 1	0.1	151 1	00	M 1001	T 21/0/21	NT A	NIA	M 1/2/21	T. 20/5/22	0.1										
		151 days		151 days	0%	Mon 1/3/21	Tue 31/8/21		NA	Mon 1/3/21	Tue 30/5/23	0 days	1100 1110			ŢШ	(CIIIII)					
1125		6 days		6 days	0%	Mon 1/3/21	Sat 6/3/21	NA	NA	Mon 1/3/21	Sat 6/3/21	0 days 1 days	1123,1118									
1126		37 days		37 days	0%	Mon 8/3/21	Thu 22/4/21		NA	Mon 8/3/21	Thu 22/4/21	0 days 2 days	1125,1107SS+75 days									
1127	Inspection Shaft Construction and Backfilling Upto +2.0mPD + Feeder Pipe Laying + Backfilling upto Final Formation Level	33 days	0 days	33 days	0%	Fri 23/4/21	Wed 2/6/21	NA	NA	Fri 23/4/21	Wed 2/6/21	0 days 0.5 day	1126									
1128	Seawall Reinstatement	75 days	0 days	75 days	0%	Thu 3/6/21	Tue 31/8/21	NA	NA	Sat 25/2/23	Tue 30/5/23	518 days 2 days	1127								$\coprod$	
1129	Section 4: Part 2E	225 days	s 0 days	225 days	0%	Mon 15/8/22	Wed 17/5/23	NA	NA	Sat 10/9/22	Tue 30/5/23	10 days										_
1130	Abandon Existing DCS - Temp. Works Design and Method Statement Submission		_	0 days	0%	Mon 15/8/22			NA	Sat 10/9/22	Sat 10/9/22	26 days 1 day								15/8		
1131	Abandon Existing DCS - Temp. Works Design and Method Statement Comment &			35 days	0%	Mon 15/8/22			NA	Sat 10/9/22	Fri 14/10/22	26 days 1 day	1130									
1132	Appraoval	185 days		185 days	0%	Mon 3/10/22			NA	Sat 15/10/22	Tue 30/5/23	10 days 9 days	20,1131									
1133		0 days		0 days	0%	Wed 17/5/23			NA	Tue 30/5/23	Tue 30/5/23	10 days	1132									17/
	Section 8: Part 2A - Diversion & abandon of extg DCS box culvert	194 days		194 days	0%	Thu 1/4/21	Wed 24/11/2		NA	Fri 9/4/21	Thu 2/12/21	4 days										
1134		0 days	_	0 days	0%	Thu 1/4/21	Thu 1/4/21	NA NA	NA NA	Fri 9/4/21	Fri 9/4/21	8 days 1 day				1,4						
1136	Method Statement Submission				0%	Thu 1/4/21				Fri 9/4/21			1135			1/4						
1130	Diversion & Abandon of Existing DCS Box Box Culvert - Temp. Works Design and Method Statement Comment & Appraoval	21 udys	o days	21 days	0.70	111U 1/4/21	Wed 21/4/21	INA	NA	111 7/4/21	Thu 29/4/21	8 days 1 day	1135									
1137	TTA Implementation	1 day	0 days	1 day	0%	Thu 22/4/21	Thu 22/4/21	NA	NA	Fri 30/4/21	Fri 30/4/21	7 days 0.5 day	1136									
															<u>                                     </u>		<u> </u>				Ш	
itle. Dec. 11 F	Prog with Progress Task S	Summary			Inactive !	Milestone 🔷	,	Duration	-only		Start-only	С	External M	ilestone	<b>♦</b>		Critical	l Split				
itle: Rev.11 i is of 22-May	v-20 Split F	Project Sun Inactive Tas			Inactive S  Manual T	Summary I		Manual S	Summary Rollup Summary		Finish-only  External Task		Deadline Critical		•		Progres		_			

								tract No. ED/																
Task	Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finis	h Late Start	Late Finish	Total Slack	TRA	Predecessors	2020 Q2   Q3	04	01	2021 O2 C	)3	04	Q1   Q2	2022	3   0	4 Q
38	Sheetpile Installation	25 days		25 days	0%	Fri 23/4/21	Mon 24/5/21	NA	NA	Mon 3/5/21	Tue 1/6/21	7 days	1 day	1137	Q2 Q3									
39	Excavation with Shoring	52 days	0 days	52 days	0%	Tue 25/5/21	Mon 26/7/21	NA	NA	Wed 2/6/21	Tue 3/8/21	7 days	1 day	1138										
40	Diversion of existing DCS box culvert	26 days	0 days	26 days	0%	Tue 27/7/21	Wed 25/8/21	NA	NA	Wed 4/8/21	Thu 2/9/21	7 days	2 days	1137,410,1139					h					
41	Break up existing box culvert (4 walls) + top slab	35 days	0 days	35 days	0%	Thu 26/8/21	Thu 7/10/21	NA	NA	Fri 3/9/21	Sat 16/10/21	7 days	2 days	1140										
42	Construct new walls at existing box culvert	20 days	0 days	20 days	0%	Fri 8/10/21	Mon 1/11/21	NA	NA	Mon 18/10/21	Tue 9/11/21	7 days	1 days	1141										
43	Abandon existing DCS box culvert	20 days	0 days	20 days	0%	Tue 2/11/21	Wed 24/11/21	NA	NA	Wed 10/11/21	Thu 2/12/21	7 days	1 days	1142										
44	Planned Completion for Section 8	0 days		0 days	0%	Wed 24/11/21	Wed 24/11/21	NA	NA	Thu 2/12/21	Thu 2/12/21	7 days	0 days	1143						2224/11				
	ection 3	729 days	_	729 days	0%	Thu 16/5/19	Tue 26/10/21		NA	Tue 2/6/20	Tue 2/11/21	6 days												
46	Part 2C - Lift LT3 & LT4	729 days		729 days	0%	Thu 16/5/19	Tue 26/10/21		NA	Tue 2/6/20	Tue 2/11/21	6 days												
17	Access Date - Part 2A.2C	0 days			0%	Tue 2/6/20		NA	NA	Tue 2/6/20	Tue 2/6/20	0 days	O dovo	4FS+369 days	2/6					'				
	,			0 days										4F3+309 days	2/0									
48	Mobilization of plant and materials	15 days		15 days	0%	Thu 16/5/19		NA	NA	Sat 4/7/20	Tue 21/7/20	337 days	-											
49	TTA implementation	4 days	0 days	4 days	0%	Tue 2/6/20	Fri 5/6/20	NA	NA	Fri 17/7/20	Tue 21/7/20	37 days	1 day	1147										
50	Carry out Titpit and Identify Underground Utilities location	12 days	0 days	12 days	0%	Mon 15/6/20	Fri 26/6/20	NA	NA	Mon 22/6/20	Fri 3/7/20	7 days									.[]]			
51	Discuss with Relevant Utilities Undertakers	18 days	0 days	18 days	0%	Sat 27/6/20	Tue 14/7/20	NA	NA	Sat 4/7/20	Tue 21/7/20	7 days		1150										
52	Slew CLP Cable and Abandon Telecom Cable (tentative)	75 days	0 days	75 days	0%	Wed 15/7/20	Mon 12/10/20	) NA	NA	Wed 22/7/20	Mon 19/10/20	6 days	4 days	1148,1149,1151							.[]]] [			
53	Lift Tower Foundation - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Tue 4/8/20	Tue 4/8/20	NA	NA	Tue 15/9/20	Tue 15/9/20	42 days	1 day		• 4	8					.[]]] [			
54	Lift Tower Foundation - Temp. Works Design and Method Statement Comment & Appraoval	35 days	0 days	35 days	0%	Tue 4/8/20	Mon 7/9/20	NA	NA	Tue 15/9/20	Mon 19/10/20	42 days	1 day	1153							.[]]]			
55	Intall Sheetpile, ELS, Excavation and Temp. Works Installation (Shoring, Drainage	38 days	0 days	38 days	0%	Tue 13/10/20	Thu 26/11/20	NA	NA	Tue 20/10/20	Thu 3/12/20	6 days	2 days	1154,1152										
56		38 days	0 days	38 days	0%	Fri 27/11/20	Wed 13/1/21	NA	NA	Fri 4/12/20	Wed 20/1/21	6 days	2 days	1148,1152,175,1			ЫШ							
57	rebar fixing & concreting) Sheepile Extraction & Backilling	13 days	0 days	13 days	0%	Thu 14/1/21	Thu 28/1/21	NA	NA	Thu 21/1/21	Thu 4/2/21	6 days	1 day	1156										
58	Lift Tower - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 2/11/20	Mon 2/11/20	NA	NA	Fri 1/1/21	Fri 1/1/21	60 days	1 day			2/1								
9	Lift Tower - Temp. Works Design and Method Statement Comment & Appraoval	35 days	0 days	35 days	0%	Mon 2/11/20	Sun 6/12/20	NA	NA	Fri 1/1/21	Thu 4/2/21	60 days	1 day	1158										
50	Lift Shaft Tower: 3 Lifts x 20 day/Lift, Falsework & Formwork Erection, Rebar	63 days		63 days	0%	Fri 29/1/21	Mon 19/4/21		NA	Fri 5/2/21	Mon 26/4/21		3 days	1156,1159,1157										
51	Fixing & Concreting  Lift installation (LT3 & LT4)				0%	Tue 20/4/21		NA	NA	Tue 27/4/21	Fri 13/8/21			1160,713										
		90 days		90 days									5 days											
52	E & M installation	30 days		30 days	0%	Sat 7/8/21		NA	NA	Sat 14/8/21	Fri 17/9/21		3 days	1161					*					
53	Louvers and Glazing Installation	26 days		26 days	0%	Fri 21/5/21	Mon 21/6/21		NA	Sat 14/8/21	Mon 13/9/21	71 days		1160FS+25 days										
54	Parapet Installation and Finishing Works	40 days	0 days	40 days	0%	Tue 22/6/21		NA	NA	Tue 14/9/21	Tue 2/11/21	71 days		1163										
65	CLP Meter Installation	0 days	0 days	0 days	0%	Mon 1/2/21	Mon 1/2/21	NA	NA	Fri 20/8/21	Fri 20/8/21	200 days	0.5 day				1/2							
66	EMSD Submission Form 5 for Lift Inspection	0 days	0 days	0 days	0%	Mon 1/3/21	Mon 1/3/21	NA	NA	Fri 20/8/21	Fri 20/8/21	172 days	0.5 day	1165			1/:	3						
67	EMSD Lift Inspection	0 days	0 days	0 days	0%	Sun 14/3/21	Sun 14/3/21	NA	NA	Fri 3/9/21	Fri 3/9/21	172 days	0.5 day	1166FS+14 days			1	4/3						
68	Issuance of Lift Use Permit	0 days	0 days	0 days	0%	Mon 29/3/21	Mon 29/3/21	NA	NA	Sat 18/9/21	Sat 18/9/21	172 days	0.5 day	1167FS+15 days				29/2	-					
69	Testing & commissioning with Statutory Inspection	36 days	0 days	36 days	0%	Sat 11/9/21	Tue 26/10/21	NA	NA	Sat 18/9/21	Tue 2/11/21	6 days	1 days	1162,1168										
70	Footpath	28 days	0 days	28 days	0%	Tue 20/4/21	Mon 24/5/21	NA	NA	Tue 8/6/21	Mon 12/7/21	40 days	1 days	1160			i	4						
71	Open Space within Part 2C	94 days	0 days	94 days	0%	Tue 25/5/21	Mon 13/9/21	NA	NA	Tue 13/7/21	Tue 2/11/21	40 days	4 days	1170,1230										
72	Planned Completion for Section 3	0 days	0 days	0 days	0%	Tue 26/10/21	Tue 26/10/21	NA	NA	Tue 2/11/21	Tue 2/11/21	6 days	0 days	1171,1168,1169,						26/10				
73 S	ections 5 and 9: Noise Barrier Installation	380 days	6.83 days	373.17 days	0%	Fri 20/3/20	Sat 3/7/21	Fri 20/3/20	NA	Fri 20/3/20	Mon 5/7/21	1 day	1 day											
74	1.0 Noise Barrier Shop Drawing Preparation, Offsite Fabrication	141 days	20.86 days	120.14 days	0%	Mon 6/4/20	Thu 24/9/20	Mon 6/4/20	NA	Mon 6/4/20	Mon 7/12/20	60 days												
75	CNP and TTA available	0 days		0 days	0%	Wed 24/6/20	Wed 24/6/20	NA	NA	Thu 20/8/20	Thu 20/8/20	47 days	1 day		<b>4</b> 24/6									
76	Expose the Extisting Noise Barrier Foundation		25 days	45 days	36%	Mon 6/4/20	Fri 3/7/20	Mon 6/4/20		Mon 6/4/20	Tue 7/7/20	3 days			20									
77	Implement TTA	2 days			0%	Mon 13/7/20			NA	Wed 18/11/20	Thu 19/11/20		1											
78				2 days										1177							.[]]]			
	Expose the Extisting Noise Barrier Foundation under Existing Footpath	15 days	_	15 days	0%	Wed 15/7/20			NA	Fri 20/11/20	Mon 7/12/20	107 days		1177										
79	Carry out the Site Survey for Existing Holding Down Bolt at Existing Landscaped Deck	6 days		6 days	0%	Wed 24/6/20		NA	NA	Thu 20/8/20	Wed 26/8/20	47 days		1175		ון								
80	Noise Barrier Shop Drawings Preparation	30 days	0 days	30 days	0%	Fri 31/7/20		NA	NA	Fri 21/8/20	Thu 24/9/20										.[]]] [			
81	Noise Barrier Shop Drawings Comment by PM	18 days	0 days	18 days	0%	Fri 4/9/20	Thu 24/9/20	NA	NA	Fri 25/9/20	Sat 17/10/20	18 days	0.5 day	1180							.[]]] [			
82	PMAA Panel Material Sample Submission	0 days	0 days	0 days	0%	Sat 2/5/20	Sat 2/5/20	NA	NA	Sat 6/6/20	Sat 6/6/20	30 days	1 days		<b>♦</b> 2/5						.[]]] [			
e. Roy 11	1 Prog with Progress	Summary	1		Inactive Mi	lestone $\diamondsuit$		Duration-or	ıly		Start-only		Е	Exter	mal Milestone	<b>♦</b>	1111	- ALULUII	Crit	tical Split	<u> </u>	<u> </u>		<u></u>
e: Rev. 1 of 22-M	ay-20 Split	Project Sun			Inactive Sur				mmary Rollup		Finish-only		3	Dead		<b>+</b>				gress		_		
-	Milestone •	Inactive Ta	sk		Manual Tas	k		Manual Sur	nmary		External Tas	sks		Critic	cal				Mai	nual Progre	ess	_	_	

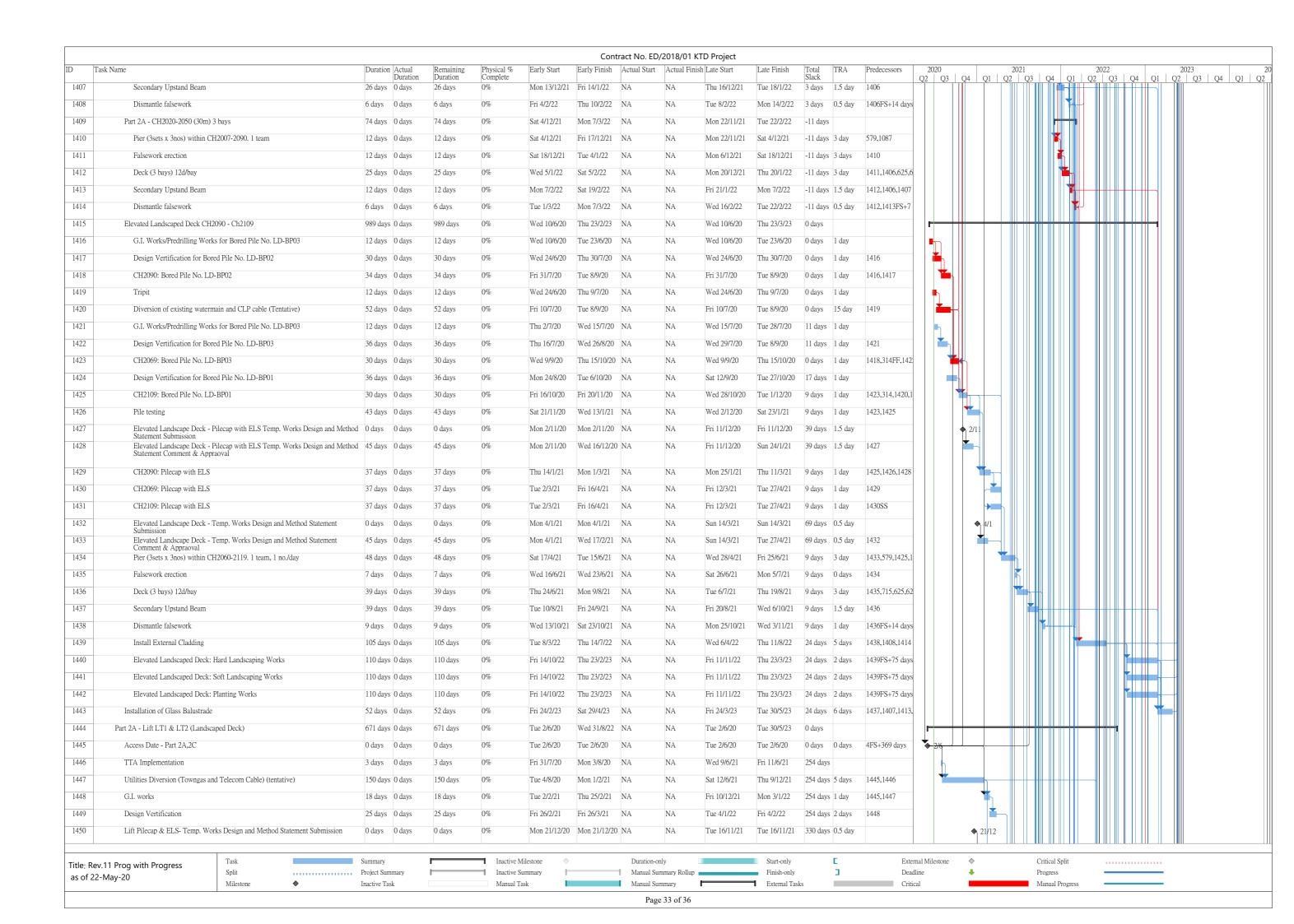
									TD Project														
Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finisl	Late Start	Late Finish	Total Slack	TRA	Predecessors	2020	04			04			04	01	2023
PMAA Panel Material Comment and Approval by PM	18 days		18 days	0%	Sat 2/5/20	Fri 22/5/20	NA	NA	Sat 6/6/20	Sat 27/6/20		1 days	1182			. , Q2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1 22	1 V3		ζ1	
PMAA Panel Material Coloring Sample Submission	0 days	0 days	0 days	0%	Thu 4/6/20	Thu 4/6/20	NA	NA	Mon 29/6/20	Mon 29/6/20	20 days	1 days	1183	4/6									
PMAA Panel Material Coloring Sample Comment and Approval by PM	10 days	0 days	10 days	0%	Thu 4/6/20	Mon 15/6/20	NA	NA	Mon 29/6/20	Fri 10/7/20	20 days	1 days	1184										
Material Testing and Offsite Fabrication	247 days	s 0 days	247 days	0%	Mon 1/6/20	Tue 2/2/21	NA	NA	Wed 10/6/20	Wed 17/2/21	9 days												
Holding Down Bolt Procurement	61 days	0 days	61 days	0%	Fri 5/6/20	Tue 4/8/20	NA	NA	Wed 10/6/20	Sun 9/8/20	5 days	1 days											
Holding Down Bolt Testing	45 days	0 days	45 days	0%	Wed 5/8/20	Fri 18/9/20	NA	NA	Mon 10/8/20	Wed 23/9/20	5 days	1 day	1187										
Structural Steelwork Procurement	81 days	0 days	81 days	0%	Mon 1/6/20	Thu 20/8/20	NA	NA	Sat 13/6/20	Tue 1/9/20	12 days	1 day											
Structural Steel Frame Material Testing	46 days	0 days	46 days	0%	Fri 21/8/20	Mon 5/10/20	NA	NA	Wed 2/9/20	Sat 17/10/20	12 days	1 day	1189										
Structural Steel Frame Fabrication and Delivery	120 days	s 0 davs	120 days	0%	Tue 6/10/20	Tue 2/2/21	NA	NA	Sun 18/10/20	Sun 14/2/21	12 days	1 day	1181,1190										
															25/1								
•																							
Procurement																							
												30 days	1193,1101										
												1 -1-											
													1106										
												1	1196										
Temporary Works Platform Design Preparation			36 days	0%	Sat 13/6/20			NA	Fri 19/6/20	Sat 1/8/20													
Temporary Working Platform Design Submit for AECOM Comment			19 days	0%	Tue 28/7/20			NA	Mon 3/8/20	Mon 24/8/20	5 days	1 day	1198										
Temporary Working Platform Fabrication	51 days	0 days	51 days	0%	Wed 19/8/20	Mon 19/10/2	0 NA	NA	Tue 25/8/20	Sat 24/10/20	5 days	1 day	1199										
2.0 Noise Barrier Footing and Modification Existing Column Stud	184 days	2.71 days	181.29 days	0%	Fri 20/3/20	Sat 19/9/20	Fri 20/3/20	NA	Fri 20/3/20	Wed 23/9/20	4 days				•								
Take up the Works Area	1 day	1 day	0 days	0%	Fri 20/3/20	0 days																	
Ground Investigation Works	25 days	0 days	25 days	0%	Sat 4/7/20	Sat 1/8/20	NA	NA	Wed 8/7/20	Wed 5/8/20	3 days	1 day	1176										
Diversion of Existing Utilities and ELS Construction	42 days	0 days	42 days	0%	Mon 3/8/20	Sat 19/9/20	NA	NA	Thu 6/8/20	Wed 23/9/20	3 days	1 day	1197,1203		h								
Fooing with Column Stud Construction	61 days	0 days	61 days	0%	Wed 23/9/20	Sat 5/12/20	NA	NA	Thu 24/9/20	Mon 7/12/20	1 day												
Bay 1 & 3 Fooing with Column Stud and Modification of Existing Column Stud	10 days	0 days	10 days	0%	Wed 23/9/20	Tue 6/10/20	NA	NA	Thu 24/9/20	Wed 7/10/20	1 day	1 day	1188,1204,184Fl		<b>i</b>								
Bay 2 & 4 Fooing with Column Stud and Modification of Existing Column along	10 days	0 days	10 days	0%	Wed 7/10/20	Sat 17/10/20	NA	NA	Thu 8/10/20	Mon 19/10/20	1 day	1 day	1206		K								
*	10 days	0 days	10 days	0%	Mon 19/10/20	Fri 30/10/20	NA	NA	Tue 20/10/20	Sat 31/10/20	1 day	1 day	1207										
Bay 6 Fooing with Column Stud, Modification of Existing Stud along Bay 6	10 days	0 days	10 days	0%	Sat 31/10/20	Wed 11/11/2	0 NA	NA	Mon 2/11/20	Thu 12/11/20	1 day	1 day	1208										
Backfill and extract sheet pile	21 days	0 days	21 days	0%	Thu 12/11/20	Sat 5/12/20	NA	NA	Fri 13/11/20	Mon 7/12/20	1 day	1 day	1209										
Modification of Remaining Colum Stud	50 days	0 days	50 days	0%	Mon 7/12/20	Fri 5/2/21	NA	NA	Tue 8/12/20	Sat 6/2/21	1 day	1 day											
Modification of Remaining Column Stud	50 days	0 days	50 days	0%	Mon 7/12/20	Fri 5/2/21	NA	NA	Tue 8/12/20	Sat 6/2/21	1 day	1 day	1210,1178										
Noise Barrier Installation	258 days	s 0 days	258 days	0%	Wed 19/8/20	Sat 3/7/21	NA	NA	Sat 26/9/20	Mon 5/7/21	1 day	1 day					1						
CNP Application			31 days	0%	Wed 19/8/20			NA	Sat 26/9/20				1199										
															19/10								
												1											
											1	1 day											
												0.5											
													1218,1219,1220,				<b>₽</b>  3/7						
					Thu 16/5/19				Thu 16/5/19		298 da												
Fencing (15m/d) & Hoarding Erection (10m/d)					Tue 15/10/19				Tue 15/10/19	Fri 30/12/22	42 days												
Hoarding - Part 1 (~57m)	51 days	0 days	51 days	0%	Tue 1/12/20	Mon 1/2/21	NA	NA	Wed 21/9/22	Mon 21/11/22	536 days	1 day	121,8										
Fencing - Part 1 (758m)	6 days	0 days	6 days	0%	Sat 19/9/20	Fri 25/9/20	NA	NA	Mon 1/3/21	Sat 6/3/21	130 days	0 days	121,8										
Fencing - Part 2A (~458m) - 4 team	12 days	0 days	12 days	0%	Wed 3/2/21	Fri 19/2/21	NA	NA	Sat 5/2/22	Fri 18/2/22	296 days	1 days	9,121,1147,1445			]							
Prog with Progress Task	Summary	1		Inactive Mi	lestone $\diamondsuit$	-	Duration-or	nly		Start-only		E	External	Milestone	***	<u> </u>	Cri	itical Split	<u> </u>	<u></u>	<u>m 111111</u>		111111
ay-20 Split	Project Sun	nmary		Inactive Sur	mmary		Manual Su	mmary Rollup 🛮		Finish-only External Tas		3	Deadline	2	1		Pro	ogress	ress			_	
1	PMAA Panel Material Coloring Sample Submission PMAA Panel Material Coloring Sample Comment and Approval by PM Material Testing and Offsite Fabrication Holding Down Bolt Procurement Holding Down Bolt Testing Structural Steelwork Procurement Structural Steel Frame Material Testing Structural Steel Frame Start Delivery to Stie Polymethyl Metharylate (PMMA) and Associated Aluminium Sub-frame Procurement Polymethyl Metharylate (PMMA) panel fabrication and delivery Temp Works Design for Noise Barrier ELS Design for Noise Barrier ELS Design for Noise Barrier with ICE ELS Design for Noise Barrier Comment by AECOM Temporary Working Platform Design Submit for AECOM Comment Temporary Working Platform Design Submit for AECOM Comment Temporary Working Platform Fabrication 2.0 Noise Barrier Footing and Modification Existing Column Stud Take up the Works Area Ground Investigation Works Diversion of Existing Utilities and ELS Construction Fooing with Column Stud Construction Bay 1 & 3 Fooing with Column Stud and Modification of Existing Column Stud along Bay 1 & 3 Bay 2 & 4 Fooing with Column Stud, Modification of Existing Stud along Bay 5&7 Bay 6 Fooing with Column Stud, Modification of Existing Stud along Bay 5&7 Bay 6 Fooing with Column Stud, Modification of Existing Stud along Bay 6 Backfill and extract sheet pile Modification of Remaining Column Stud Modification of Remaining Column Stud Modification of Remaining Column Stud Noise Barrier Installation CNP Application Temporary Platform De-site Assembly (Night Time) Structural Steel Frame Installation PMMA and Associated Aluminum Sub-frame Installation Lighting Installation Rainwater downpipe Bus Lay-by Planned Completion for Section 5 & Section 9 ection 6 Fencing - Part 1 (~57m) Fencing - Part 2 (~57m) Fencing - Part 2 (~548m) - 4 team	PMAA Panel Material Comment and Approval by PM PMAA Panel Material Coloring Sample Submission  PMAA Panel Material Coloring Sample Comment and Approval by PM Ito days PMAA Panel Material Coloring Sample Comment and Approval by PM Ito days Material Testing and Offsite Fabrication Holding Down Bolt Procurement 61 days Holding Down Bolt Testing 55 days Structural Steel Frame Material Testing Structural Steel Frame Material Testing 46 days Structural Steel Frame Fabrication and Delivery Structural Steel Frame Fabrication and Delivery 120 days Structural Steel Frame Start Delivery to Site Odays Polymethyl Metharylate (PMMA) and Associated Aluminium Sub-frame Procurement Polymethyl Metharylate (PMMA) panel fabrication and delivery 101 days Temp Works Design for Noise Barrier 1106 days ELS Design For Noise Barrier with ICE 12 S Design Preparation for Noise Barrier with ICE 12 S Design For Noise Barrier Omment by AECOM 12 Temporary Working Platform Design Submit for AECOM Comment 13 days 14 Temporary Working Platform Design Submit for AECOM Comment 15 days 16 days 17 days 18 days 19 da	Duration   PMAA Panel Material Comment and Approval by PM   Sl. days   0	Duration   Duration   Duration   Duration   Duration   PMAA Panel Material Comment and Approval by PM   16 days   18 days   18 days   18 days   19 days	PathAA Pamel Material Coloring Sample Submission   Odgs   Odgs	Duration   Duration	Particul   Description   De	Paralle   Par	Processor   Pro	Part   Control   Contro	March Part Macrial Commut and Agencial for PMI   March Part Macrial Commut and Agencial for PMI   March Part Macrial Commut and Agencial for PMI   March PMI	Part   Part	Part   Part	Public A Print Amen' A Comment   Public Amen'	Performance   Performance	Product   Prod	Part   Part	Column	Company   Comp	March   Marc	March   Marc	Note   Property   Pr	March   Marc



							Con	tract No. ED	/2018/01 K	TD Project												_
Task N	Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finis	h Late Start	Late Finish	Total TRA Slack		2020	Q4 Q1	202	03	04		2022 2   Q3	04	01
72	CH2000 - CH2060 (~84m, 2 M/H) - S.D. Rd	14 days		14 days	0%	Thu 6/1/22	Fri 21/1/22	NA	NA	Mon 5/9/22	Wed 21/9/22	198 days 1 days	1085SS+12 days	, Q3	QT QI	1 22						QI I
73	CH2060 - CH2118.93 (~50.7m, 2 M/H) - Rd D3	14 days	0 days	14 days	0%	Mon 4/10/21	Wed 20/10/21	l NA	NA	Fri 3/12/21	Sat 18/12/21	51 days 1 days	1267									
74	CH100 - CH147 (~169m, 5 M/H) - L12 Road	38 days	0 days	38 days	0%	Mon 2/5/22	Wed 15/6/22	NA	NA	Sat 2/7/22	Mon 15/8/22	51 days 3 days	1275,1229									
75	Open Space & Promenade (~457m, 11 M/H)	76 days	0 days	76 days	0%	Tue 25/1/22	Sat 30/4/22	NA	NA	Tue 29/3/22	Thu 30/6/22	51 days 6 days	1504,458,459,12						4	4		
76	L12d Stormwater	50 days	0 days	50 days	0%	Thu 21/10/21	Fri 17/12/21	NA	NA	Wed 26/1/22	Mon 28/3/22	80 days	1273,490									
77	Sewerage Drainage	496 days	0 days	496 days	0%	Tue 1/12/20	Wed 3/8/22	NA	NA	Sat 29/5/21	Wed 5/10/22	51 days										
78	Procurement of Sewerage Pipes	90 days	0 days	90 days	0%	Tue 1/12/20	Sun 28/2/21	NA	NA	Sat 29/5/21	Thu 26/8/21	179 days 0.5 days										
79	Sewerage Drainage - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Wed 2/6/21	Wed 2/6/21	NA	NA	Sat 28/8/21	Sat 28/8/21	87 days 0.5 days				<b>\$</b> 2/	/6					
80	Sewerage Drainage - Temp. Works Design and Method Statement Comment &	21 days	0 days	21 days	0%	Wed 2/6/21	Tue 22/6/21	NA	NA	Sat 28/8/21	Fri 17/9/21	87 days 0.5 days	1279									
1	Appraoval CH1000 - CH1087 (~68m, 3 M/H)	19 days	0 days	19 days	0%	Tue 15/6/21	Wed 7/7/21	NA	NA	Fri 27/8/21	Fri 17/9/21	62 days 1 days	428,451,465,466									
32	CH1087 - CH1189.4 (~47m, 1 no M/H)	14 days	0 days	14 days	0%	Sat 4/9/21	Mon 20/9/21	NA	NA	Sat 18/9/21	Wed 6/10/21	12 days 1 days	1265,1278,1280,									
83	CH100 - CH147 (~156m, 6 M/H) - L12 Road	41 days		41 days	0%	Thu 16/6/22	Wed 3/8/22	NA	NA	Tue 16/8/22	Wed 5/10/22	51 days 3 days	1274,1280,1275,									
	Underground Watermain	629 days		629 days	0%	Tue 15/12/20	Fri 27/1/23		NA	Fri 14/5/21	Thu 16/3/23	41 days	127 1,1200,1273,									
285	Fresh Watermain	519 days		519 days	0%	Tue 15/12/20	Wed 14/9/22		NA	Fri 14/5/21	Thu 16/3/23	119 days							Щ			.
286	Fresh Watermain - Method Statement Submission	0 days		0 days	0%	Tue 1/6/21	Tue 1/6/21		NA	Sat 7/8/21	Sat 7/8/21	67 days 1 days				1,	/6					
287	Fresh Watermain - Ivietnod Statement Submission  Fresh Watermain Method Statement Comment & Appraoval				0%	Tue 1/6/21	Mon 5/7/21			Sat 7/8/21	Fri 10/9/21		1286									
88	**	35 days		35 days					NA NA			67 days 1 days	1286									
	Fresh Watermain Procurement	120 days		120 days	0%	Mon 11/1/21	Mon 10/5/21		NA	Fri 14/5/21	Fri 10/9/21	123 days 1 days	1000 1007									
39	CH1000 - CH1087 (~191m) Rd D3	20 days		20 days	0%	Tue 6/7/21	Wed 28/7/21		NA	Sat 11/9/21	Wed 6/10/21	58 days 1 days	1288,1287									
90	CH1087 - CH1189.4 (~212m) - N. Ramp	4 days		4 days	0%	Tue 21/9/21	Sat 25/9/21		NA	Thu 7/10/21	Mon 11/10/21		1282,467,1289									
1	CH1189.4 - CH1394 (~409.2m) - Bridge D3	42 days	0 days	42 days	0%	Tue 10/8/21	Tue 28/9/21		NA	Fri 15/10/21	Thu 2/12/21	54 days 2 days	1288,944FF									
2	CH1394 - CH1444.7 (~101.4m) - S. Ramp	10 days	0 days	10 days	0%	Tue 6/7/21	Fri 16/7/21	NA	NA	Mon 15/8/22	Thu 25/8/22	332 days 0 days	988SS+10 days,1									
3	CH1444.7 - CH1560 (~165m) - Rd D3	30 days	0 days	30 days	0%	Mon 12/7/21	Sat 14/8/21	NA	NA	Sat 27/11/21	Tue 4/1/22	116 days 0 days	988SS+15 days									
1	CH1720 - CH1920 (~25m) - Underpass	2 days	0 days	2 days	0%	Fri 17/12/21	Sat 18/12/21	NA	NA	Fri 16/9/22	Sat 17/9/22	221 days 0 days	1270,444									
5	CH2060 - CH2118.93 (~47m) - Rd D3	2 days	0 days	2 days	0%	Sat 16/10/21	Mon 18/10/21	l NA	NA	Wed 15/12/21	Thu 16/12/21	51 days 0 days	1273SS+10 days									
,	CH100 - CH147 (~280m) - L12 Road	30 days	0 days	30 days	0%	Tue 17/5/22	Tue 21/6/22	NA	NA	Tue 28/6/22	Tue 2/8/22	35 days 2 days	1297									
7	Open Space & Promenade (~1,093m)	110 days	0 days	110 days	0%	Thu 30/12/21	Mon 16/5/22	NA	NA	Wed 12/1/22	Fri 27/5/22	10 days 1 day	1497,458,111									
В	Freshwater main across Kai Tak River	50 days	0 days	50 days	0%	Tue 17/5/22	Fri 15/7/22	NA	NA	Tue 15/11/22	Thu 12/1/23	151 days 1 day	1297,514						1111			
)	L12d Freshwater	50 days	0 days	50 days	0%	Tue 15/12/20	Wed 17/2/21	NA	NA	Tue 15/11/22	Thu 12/1/23	569 days	498							+		
0	Fresh Watermain T&C	51 days	0 days	51 days	0%	Sat 16/7/22	Wed 14/9/22	NA	NA	Fri 13/1/23	Thu 16/3/23	151 days 1 day	1297,1296,1298,									+
1	Salt Watermain	591 days	0 days	591 days	0%	Mon 1/2/21	Fri 27/1/23	NA	NA	Sun 20/6/21	Thu 16/3/23	41 days										1
)2	Salt Watermain - Method Statement Submission	0 days	0 days	0 days	0%	Mon 24/5/21	Mon 24/5/21	NA	NA	Mon 13/9/21	Mon 13/9/21	112 days 1 day				<b>4</b> 24,	/5					
)3	Salt Watermain Method Statement Comment & Appraoval	35 days	0 days	35 days	0%	Mon 24/5/21	Sun 27/6/21	NA	NA	Mon 13/9/21	Sun 17/10/21	112 days 1 day	1302									
04	Salt Watermain Procurement	120 days	0 days	120 days	0%	Mon 1/2/21	Mon 31/5/21	NA	NA	Sun 20/6/21	Sun 17/10/21	139 days 1 day										
05	CH1000 - CH1087 (~157m) Rd D3	15 days	0 days	15 days	0%	Mon 28/6/21	Thu 15/7/21	NA	NA	Thu 18/8/22	Sat 3/9/22	341 days 1 days	1304,1303									
06	CH1087 - CH1189.4 (~218m) - N. Ramp	4 days	0 days	4 days	0%	Mon 27/9/21	Thu 30/9/21	NA	NA	Tue 12/10/21	Sat 16/10/21	12 days 1 day	1290									
07	CH1189.4 - CH1394 (~409.2m) - Bridge D3	40 days	0 days	40 days	0%	Sat 2/10/21	Thu 18/11/21	NA	NA	Mon 18/10/21	Thu 2/12/21	12 days 0.5 days	1291SS,1303,45									
808	CH1394 - CH1444.7 (~101.4m) - S. Ramp	10 days	0 days	10 days	0%	Sat 17/7/21	Wed 28/7/21	NA	NA	Fri 26/8/22	Tue 6/9/22	332 days 1 day	1292			i						
809	CH1444.7 - CH1560 (~165m) - Rd D3	18 days		18 days	0%	Mon 16/8/21	Sat 4/9/21		NA	Wed 29/6/22	Wed 20/7/22	258 days 1 day	1293									
10	CH1560 - CH1720 (~160m) - NDR	50 days		50 days	0%	Fri 19/11/21	Wed 19/1/22		NA	Thu 21/7/22	Sat 17/9/22	197 days	1307,1309,444									
1	CH1720 - CH1920 (~25m) - Underpass	3 days		3 days	0%	Thu 20/1/22	Sat 22/1/22		NA	Mon 19/9/22	Wed 21/9/22	197 days 1 day	1294,1310						4111			
2	CH2060 - CH2118.93 (-47m) - Rd D3	2 days		2 days	0%	Mon 24/1/22			NA NA	Thu 22/9/22	Fri 23/9/22	197 days 1 day	1295,1311								ЩШ	
13	CH100 - CH147 (~455m) - L12 Road	47 days		47 days	0%		Tue 16/8/22		NA	Wed 3/8/22	Tue 27/9/22	35 days 2 days	1295,1311									
14	L12d Salt Watermain			50 days	0%				NA NA				1313,498									
		50 days				Wed 17/8/22	Mon 17/10/22			Wed 16/11/22	Fri 13/1/23	75 days 1 day	,									
315	Open Space & Promenade (~1,093m)	110 days		110 days	0%	Tue 17/5/22	Sat 24/9/22		NA	Sat 28/5/22	Sat 8/10/22	10 days 1 day	1297,458									
316	Saltwater main across Kai Tak River	51 days	o days	51 days	0%	Ivion 26/9/22	Fri 25/11/22	NA	NA	Tue 15/11/22	Fri 13/1/23	41 days 1 day	1315,514									
le: Rev.11	Prog with Progress	Summary			Inactive N			Duration-o	-		Start-only	E .	External N	Milestone	<b>♦</b>			ical Split				
of 22-Ma	Cplit	Project Sun	nmary		Inactive S	ummary		Manual Su	mmary Rollup		Finish-only	3	Deadline		4		Prog	gress				_

							COI	idiact 140. LD	, 2010, 011	TD Project											
Task Na	ame	Duration	n Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Fini	sh Late Start	Late Finish	Total TRA Slack	Predecessors 2020	04 0:	20	21	04 0:		022	04 0	1   .
17	Salt Watermain T&C	50 days	0 days	50 days	0%	Sat 26/11/22	Fri 27/1/23	NA	NA	Sat 14/1/23	Thu 16/3/23	41 days 1 day	Q2 Q3   1312,1315,1316,	Q4   Q1	Q2	Q3 (	24   Q1	Q2	Q3	Q4 Q1	$\vdash$
8	Irrigation System	535 days	s 0 days	535 days	0%	Tue 5/1/21	Sat 22/10/22	NA	NA	Wed 16/6/21	Thu 16/3/23	120 days			$\longrightarrow$						
19	Irrigation System - Method Statement Submission	0 days	0 days	0 days	0%	Sun 20/6/21	Sun 20/6/21	NA	NA	Thu 4/11/21	Thu 4/11/21	137 days 1 day			•	ነ 20/6					
20	Irrigation System Method Statement Comment & Appraoval	21 days	0 days	21 days	0%	Sun 20/6/21	Sat 10/7/21	NA	NA	Thu 4/11/21	Wed 24/11/21	137 days 1 day	1319								
21	Irrigation Pipe and System Procurement	150 days	s 0 days	150 days	0%	Tue 5/1/21	Thu 3/6/21	NA	NA	Wed 16/6/21	Fri 12/11/21	162 days 1 day				$\neg$					
22	CH1000 - CH1087 (~87m) Rd D3	5 days	0 days	5 days	0%	Fri 16/7/21	Wed 21/7/21	NA	NA	Mon 5/9/22	Fri 9/9/22	341 days 0 days	1305,1321			<b>#</b>					
23	CH1087 - CH1189.4 (~205m) - N. Ramp		0 days	10 days	0%	Mon 7/6/21	Fri 18/6/21	NA	NA	Sat 13/11/21	Wed 24/11/21	132 days 1 day	1321			. ]					
24	CH1189.4 - CH1394 (~409.2m) - Bridge D3			7 days	0%	Sat 2/10/21	Sat 9/10/21	NA	NA	Thu 25/11/21	Thu 2/12/21	45 days 0 days	1307SS,1320,13								
5	CH1394 - CH1444.7 (~101.4m) - S. Ramp	3 days		3 days	0%	Thu 29/7/21	Sat 31/7/21	NA	NA	Wed 7/9/22	Fri 9/9/22	332 days 0 days	1308								
5	CH1444.7 - CH1560 (~175m) - Rd D3	4 days	0 days	4 days	0%	Mon 6/9/21	Thu 9/9/21		NA	Mon 12/9/22	Thu 15/9/22	302 days 0 days	1309,1322,1325								
7	CH1920 - CH2000 (~160m) S.D. Rd			5 days	0%	Thu 6/1/22	Tue 11/1/22		NA	Fri 16/9/22	Wed 21/9/22	207 days 1 day	1271,1326								
	· , ,																				
28	CH2000 - CH2060 (-60m) - S.D. Rd			2 days	0%	Sat 22/1/22	Mon 24/1/22		NA	Thu 22/9/22	Fri 23/9/22	198 days 0 days	1272,1327								
29	CH2060 - CH2118.93 (~100m) - Rd D3	3 days	0 days	3 days	0%	Wed 26/1/22	Fri 28/1/22		NA	Sat 24/9/22	Tue 27/9/22	197 days 0 days	1312,1328								
0	CH100 - CH147 (~173m) - L12 Road	5 days		5 days	0%	Wed 17/8/22	Mon 22/8/22		NA	Wed 28/9/22	Wed 5/10/22	35 days 1 day	1313,1329								
1	Irrigation System T&C		0 days	50 days	0%	Tue 23/8/22	Sat 22/10/22		NA	Sat 14/1/23	Thu 16/3/23	120 days 1 day	1330								$\Box$
	Salt Water and Sewage Pumping Station		s 0 days	637 days	0%	Sat 27/3/21	Thu 18/5/23		NA	Wed 28/7/21	Tue 30/5/23	8 days									
3	Salt Water Pumping Station - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 2/8/21	Mon 2/8/21	NA	NA	Fri 10/9/21	Fri 10/9/21	39 days 1 day				<b>♦</b> 2 <b>/</b> 8					
4	Salt Water Pumping Station - Temp. Works Design and Method Statement Comme & Appraoval	nt 35 days	0 days	35 days	0%	Mon 2/8/21	Sun 5/9/21	NA	NA	Fri 10/9/21	Thu 14/10/21	39 days 1 day	1333								
5	Utilities Diversion	65 days	0 days	65 days	0%	Mon 21/6/21	Sat 4/9/21	NA	NA	Wed 28/7/21	Wed 13/10/21	31 days 15 day									
6	Substructure	100 days	s 0 days	100 days	0%	Tue 5/10/21	Sat 5/2/22	NA	NA	Fri 15/10/21	Tue 15/2/22	8 days									
7	Sheetpile Installation	25 days	0 days	25 days	0%	Tue 5/10/21	Wed 3/11/21	NA	NA	Fri 15/10/21	Fri 12/11/21	8 days 5 days	148,1334,1335,1				4I III III				
3	Excavation and Shoring Installation	50 days	0 days	50 days	0%	Thu 4/11/21	Tue 4/1/22	NA	NA	Sat 13/11/21	Thu 13/1/22	8 days 5 days	1337								
	Base Slab Construction include blinding layer	25 days	0 days	25 days	0%	Wed 5/1/22	Sat 5/2/22	NA	NA	Fri 14/1/22	Tue 15/2/22	8 days 3 days	1338,149FS+120								
	Superstructure	460 days	s 0 days	460 days	0%	Fri 24/9/21	Wed 12/4/23	NA	NA	Wed 16/2/22	Mon 29/5/23	38 days						+++++			<b>H</b>
	Coordination with CLP to plan for Layout and Details of Transformer Room	0 days	0 days	0 days	0%	Fri 24/9/21	Fri 24/9/21	NA	NA	Sat 4/6/22	Sat 4/6/22	253 days				<b>♦</b> 2	:4/9	+			
	Scaflold, Falsework and Formwork Erection	28 days	0 days	28 days	0%	Mon 7/2/22	Thu 10/3/22	NA	NA	Wed 16/2/22	Sat 19/3/22	8 days 2 days	1339,719,531,54					4 III			
	Wall Rebar Fixing & Concreting	24 days	0 days	24 days	0%	Fri 11/3/22	Fri 8/4/22	NA	NA	Mon 21/3/22	Thu 21/4/22	8 days 1 day	1342					<b>k</b>			
1	Top Slab and Beam: Rebar Fixing and Formwork	36 days	0 days	36 days	0%	Sat 9/4/22	Tue 24/5/22	NA	NA	Fri 22/4/22	Thu 2/6/22	8 days 2 days	1343								
5	Formwork & Falsework Removal	28 days	0 days	28 days	0%	Wed 25/5/22	Mon 27/6/22	NA	NA	Sat 4/6/22	Thu 7/7/22	8 days 1 day	1344,1341								
16	Watertightnes Test	15 days		15 days	0%	Tue 28/6/22	Fri 15/7/22	NA	NA	Fri 19/8/22	Mon 5/9/22	44 days 1 day	1345								
17	Backfilling & Sheetpile Removal	24 days		24 days	0%	Tue 28/6/22	Tue 26/7/22		NA	Tue 9/8/22	Mon 5/9/22	35 days 2 days	1345								
18	Water Chamber Construction		0 days	36 days	0%	Tue 28/6/22	Tue 9/8/22		NA	Fri 8/7/22	Thu 18/8/22	8 days 1 day	1345								
19	Watertightnes Test for Water Chamber		0 days	15 days	0%		Fri 26/8/22		NA	Fri 19/8/22	Mon 5/9/22	8 days 1 day	1348								
50	Drainage and Roadworks		0 days	80 days	0%	Wed 27/7/22	Mon 31/10/2		NA	Sat 18/2/23	Mon 29/5/23	170 days 5 days	1347,383								
													1347								
52	Utilities Laying		s 0 days	105 days	0%	Wed 27/7/22	Tue 29/11/22		NA	Tue 6/9/22	Tue 10/1/23	35 days 5 days	714,1345,555,13								
	Finishing work and fitting out	75 days		75 days		Sat 27/8/22	Fri 25/11/22		NA	Tue 6/9/22	Mon 5/12/22	8 days 1 day									
53	Tx Installation with T&C		0 days	60 days	0%	Tue 15/11/22			NA	Thu 24/11/22	Mon 6/2/23	8 days 1 day	1346,1352FF+5(								
54	PCCW Installation	15 days		15 days	0%	Wed 30/11/22			NA	Fri 24/2/23		70 days 1 day	1351,1346								
55	Ironmongery work		0 days	24 days	0%	Sat 26/11/22			NA	Tue 14/2/23	Mon 13/3/23	64 days 0.5 days									
56	E&M installation		s 0 days	100 days	0%	Thu 3/11/22	Fri 3/3/23		NA	Sat 12/11/22	Mon 13/3/23	8 days 5 days	1345,1353FF+30								
7	Testing and Commissioning	30 days	0 days	30 days	0%	Sat 4/3/23	Wed 12/4/23	NA	NA	Tue 14/3/23	Fri 21/4/23	8 days 2 days	1356,1355,1351,								
8	WSD Form 46 Part I & II Submission	0 days	0 days	0 days	0%	Sat 27/3/21	Sat 27/3/21	NA	NA	Sat 22/4/23	Sat 22/4/23	615 days 0.5 days			<b>♦</b> 27/3						
59	WSD Form 46 Part 46 Part IV Submission	0 days	0 days	0 days	0%	Tue 15/3/22	Tue 15/3/22	NA	NA	Sat 22/4/23	Sat 22/4/23	329 days 0.5 days	1358					15/3			H
50	CLP Meter Installation	0 days	0 days	0 days	0%	Sun 19/6/22	Sun 19/6/22	NA	NA	Sat 22/4/23	Sat 22/4/23	251 days 0.5 days							19/6		H
51	FSD Form 501 Submission for FS Inspection	0 days	0 days	0 days	0%	Wed 12/4/23	Wed 12/4/23	NA	NA	Sat 22/4/23	Sat 22/4/23	8 days 0.5 days	1359,1360,1357								<b>A</b>
- D: 44:	Task	Summary			Inactive M	filestone $\diamondsuit$		Duration-c	nly		Start-only	Е	External Milestone	<u> </u>		Crit	tical Split		<u>                                      </u>		Ш
	Prog with Progress	-	mmary		Inactive S				mmary Rollup		Finish-only	<u> </u>	Deadline	1			gress				_

								tract No. ED,			-												
	k Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start		Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	2020 Q2   Q3   0	Q4 Q1	202   Q2	21 Q3	Q4	Q1 C	2022 Q2   Q3	3   Q4	Q1
2	FSD Inspection	0 days	0 days	0 days	0%	Sat 29/4/23	Sat 29/4/23	NA	NA	Thu 11/5/23	Thu 11/5/23	8 days	0.5 days	1361FS+15 days									
3	Issuance of FS Certificate	0 days	0 days	0 days	0%	Thu 18/5/23	Thu 18/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	8 days	0.5 days	1362FS+15 days									
4	Salt Water and Sewage Pumping Station: Landscaping hardworks and softworks	110 days	s 0 days	110 days	0%	Wed 30/11/22	Sat 15/4/23	NA	NA	Wed 11/1/23	Mon 29/5/23	35 days	2 days	562,1351,548									
5	Salt Water and Sewage Pumping Station: Planting Works	110 days	s 0 days	110 days	0%	Wed 30/11/22	Sat 15/4/23	NA	NA	Wed 11/1/23	Mon 29/5/23	35 days	2 days	562,1351,548									+++
6	Section 6 Completion	0 days	0 days	0 days	0%	Tue 30/5/23	Tue 30/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	0 days		1350,1363,1364,									
7	Seawater Intake Box Culvert (~169m)	647 days	s 0 days	647 days	0%	Fri 5/3/21	Mon 8/5/23	NA	NA	Fri 5/3/21	Tue 30/5/23	0 days				-							+
8	Access Date - Part 4	0 days	0 days	0 days	0%	Fri 5/3/21	Fri 5/3/21	NA	NA	Fri 5/3/21	Fri 5/3/21	0 days	0 days	4FS+645 days		<b>*</b>	5/3						
9	Part 4 - CHA.0-79 (79m)	290 days	s 0 days	290 days	0%	Thu 19/5/22	Mon 8/5/23	NA	NA	Fri 10/6/22	Tue 30/5/23	18 days											+
0	CHA 0-24 Precast Section	34 days	0 days	34 days	0%	Thu 19/5/22	Tue 28/6/22	NA	NA	Fri 10/6/22	Wed 20/7/22	18 days											
1	Temporary ELS & Excavation and Shoring Installation	24 days	0 days	24 days	0%	Thu 19/5/22	Thu 16/6/22	NA	NA	Fri 10/6/22	Fri 8/7/22	18 days	1 days	1384,1386,1238,									
2	Install 3 nos. 8 m long precast units (2.5 days per unit)	10 days	0 days	10 days	0%	Fri 17/6/22	Tue 28/6/22	NA	NA	Sat 9/7/22	Wed 20/7/22	18 days	2.5 days	1371									
3	CHA 24-79 (75m) (5 units)	256 days	s 0 days	256 days	0%	Wed 29/6/22	Mon 8/5/23	NA	NA	Thu 21/7/22	Tue 30/5/23	18 days											##
1	Temporary ELS & Excavation		0 days	50 days	0%	Wed 29/6/22	Fri 26/8/22		NA	Thu 21/7/22	Sat 17/9/22	18 days	1 day	1372									
5	Unit 1 & 3 (41 days per unit)		0 days	44 days	0%	Sat 27/8/22	Thu 20/10/22		NA	Mon 19/9/22	Thu 10/11/22			1374									
6	Unit 2 & 4 (41 days per unit)		0 days	44 days	0%	Fri 21/10/22	Sat 10/12/22		NA	Fri 11/11/22	Mon 2/1/23			1375									$\parallel \parallel$
7	Unit 5 & 6 (41 days per unit)				0%	Mon 12/12/22		NA	NA	Tue 3/1/23	Sat 25/2/23			1376									
3			0 days	44 days								18 days											
	Remove struts and backfilling		0 days	24 days	0%	Mon 6/2/23	Sat 4/3/23	NA	NA	Mon 27/2/23	Sat 25/3/23	18 days		1376,1377									
9	Reinstate seawall		0 days	50 days	0%	Mon 6/3/23	Mon 8/5/23		NA	Mon 27/3/23	Tue 30/5/23		1 days	1378									
0	Part 10 - CHA79-89 (10m)		s 0 days	286 days	0%	Wed 2/6/21	Wed 18/5/22		NA	Wed 2/6/21	Thu 9/6/22	0 days									1		
	Access Date - Part 10	0 days	0 days	0 days	0%	Wed 2/6/21	Wed 2/6/21	NA	NA	Wed 2/6/21	Wed 2/6/21	0 days	0 days	4FS+734 days,1'			2/	/6					
2	Tempoary Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Sun 2/1/22	Sun 2/1/22	NA	NA	Tue 22/2/22	Tue 22/2/22	40 days							•	2/1			
	Tempoary Works Design and Method Statement Comment by PM	21 days	0 days	21 days	0%	Mon 3/1/22	Wed 26/1/22	NA	NA	Tue 22/2/22	Thu 17/3/22	40 days		1382									
	Temporary ELS & Excavation	14 days	0 days	14 days	0%	Fri 25/2/22	Sat 12/3/22	NA	NA	Fri 18/3/22	Sat 2/4/22	18 days	0 days	1388,1381,1391,							-		
	Box Culvert with Feeder Installation	47 days	0 days	47 days	0%	Mon 14/3/22	Wed 11/5/22	NA	NA	Mon 4/4/22	Wed 1/6/22	18 days	6 days	1384,1381,1391							ь		
	Remove struts and backfilling	6 days	0 days	6 days	0%	Thu 12/5/22	Wed 18/5/22	NA	NA	Thu 2/6/22	Thu 9/6/22	18 days	1 days	1392,1385							#    <sup> </sup>		
	Part 1 - CH89-165 (76m) 6 Units	193 days	s 0 days	193 days	0%	Mon 16/8/21	Fri 8/4/22	NA	NA	Mon 6/9/21	Wed 1/6/22	18 days						-			ا       لا		
	Temporary ELS & Excavation	25 days	0 days	25 days	0%	Mon 16/8/21	Mon 13/9/21	NA	NA	Mon 6/9/21	Wed 6/10/21	18 days	0.5 days	9,1147,1445									
	Unit 1 & 3 (41 days per unit)	44 days	0 days	44 days	0%	Tue 14/9/21	Sat 6/11/21	NA	NA	Thu 7/10/21	Sat 27/11/21	18 days	4 days	1388,418,570					H				
)	Unit 2 & 4 (41 days per unit)	44 days	0 days	44 days	0%	Mon 8/11/21	Thu 30/12/21	NA	NA	Mon 29/11/21	Fri 21/1/22	18 days	4 days	1389					<b>H</b>	_			
	Unit 5 & 6 (41 days per unit)	44 days	0 days	44 days	0%	Fri 31/12/21	Thu 24/2/22	NA	NA	Sat 22/1/22	Thu 17/3/22	18 days	4 days	1390									
2	Remove struts and backfilling	36 days	0 days	36 days	0%	Fri 25/2/22	Fri 8/4/22	NA	NA	Thu 21/4/22	Wed 1/6/22	43 days	1 days	1390,1391							J <b>     </b>		
3	Elevated Landscape Deck CH1920 - 2090	1178 day	ys 11.27 days	1166.74 days?	0%	Thu 16/5/19	Sat 29/4/23	Thu 16/5/19	NA	Thu 16/5/19	Wed 29/5/24	321 da											##
4	Agree Interface Coordination Plan with KL/2014/01 Contractor		14 days	0 days	100%	Thu 16/5/19	Fri 31/5/19	Thu 16/5/19		Thu 16/5/19	Fri 31/5/19	0 days											
5	Ch1920-CH2060		0 days	1 day?	0%	Sat 23/5/20	Sat 23/5/20		NA	Wed 29/5/24	Wed 29/5/24	1467 d											
6	Part 1 - CH1919-2020 (70m) 4 bays		s 0 days	181 days	0%	Mon 5/7/21	Thu 10/2/22		NA	Wed 8/9/21	Mon 14/2/22	3 days								4111			
7	Pier Temporary Works Design and Method Statement Submission	0 days		0 days	0%	Mon 5/7/21	Mon 5/7/21		NA	Wed 8/9/21	Wed 8/9/21	65 days	1 day					s 5/7					
														1207									
9	Pier Temporary Works Design and Method Statement Comment & Approval	45 days		45 days	0%	Mon 5/7/21	Wed 18/8/21		NA	Wed 8/9/21	Fri 22/10/21	65 days		1397					-				
	CH1930 Pier (1set x 3nos.):		0 days	12 days	0%	Tue 5/10/21	Tue 19/10/21		NA	Fri 8/10/21	Fri 22/10/21	3 days		1075,1076,1066									
) I	CH1950-CH2020: Pier (3sets x 3nos) - 1 day/no 1 team		0 days	11 days	0%		Mon 1/11/21		NA	Sat 23/10/21	Thu 4/11/21	3 days		579,1398,1399									
	Falsework Temporary Works Design and Method Statement Submission		0 days	0 days	0%	Wed 1/9/21	Wed 1/9/21		NA	Tue 21/9/21	Tue 21/9/21	20 days						1/9	9				
	Falsework Temporary Works Design and Method Statement Comment & Approval	45 days	0 days	45 days	0%	Wed 1/9/21	Fri 15/10/21		NA	Tue 21/9/21	Thu 4/11/21	20 days	1 day	1401									
3	Falsework erection	10 days	0 days	10 days	0%	Tue 2/11/21	Fri 12/11/21	NA	NA	Fri 5/11/21	Tue 16/11/21	3 days	1 day	1400,1402					H				
	Deck & Secondary Upstand Beam Temporary Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Wed 1/9/21	Wed 1/9/21	NA	NA	Sun 3/10/21	Sun 3/10/21	32 days	1 day					<b>4</b> 1/9	9				
5	Deck & Secondary Upstand Beam Temporary Works Design and Method Statement Comment & Approval	45 days	0 days	45 days	0%	Wed 1/9/21	Fri 15/10/21	NA	NA	Sun 3/10/21	Tue 16/11/21	32 days	1 day	1404					411				
6	Deck (4 bays) 12d/bay & link bridge (12d/bay)	25 days	0 days	25 days	0%	Sat 13/11/21	Sat 11/12/21	NA	NA	Wed 17/11/21	Wed 15/12/21	3 days	1 day	1403,625,623FS					#	$\ \ \ $			
	Task	Summary			Inactive M	ilestone		Duration-or	nly		Start-only			Exten	nal Milestone	<b>♦</b>		(Crit	tical Spl	<u>                                      </u>			<u> </u>
	11 Prog with Progress May-20 Split	Project Sur	mmary		Inactive Su				mmary Rollup <b>=</b>		Finish-only		3	Deadl		•			gress				
۵۵-۱۱	Milestone •	Inactive Ta	ask		Manual Ta	sk		Manual Sui	mmary		External Tas	sks		Critica	al			Ma	nual Pro	ogress	_		_



									/2018/01 KT											
Task Naı	ne	Duration	n Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	h Late Start	Late Finish	Total TRA Slack	Predecessors	2020 O2   O3	O4 O1	2021 Q2   Q3	04 0	2022 1   Q2   C		Q1   Q2
451	Lift Pilecap and ELS - Temp. Works Foundation Design and Method Statement Comment & Appraoval	30 days	0 days	30 days	0%	Mon 21/12/20	Tue 19/1/21	NA	NA	Tue 16/11/21	Wed 15/12/21	330 days 0.5 day	1450	<u>-</u>						
452	Intall Sheetpile, ELS, Excavation and Temp. Works Installation (Shoring, Drainage & Slope Protection)	38 days	0 days	38 days	0%	Tue 2/2/21	Sat 20/3/21	NA	NA	Thu 16/12/21	Fri 4/2/22	259 days 2 days	1447,1451			$\dashv \parallel \parallel \parallel$				
453	Footing Construction	75 days	0 days	75 days	0%	Thu 13/5/21	Wed 11/8/21	NA	NA	Sat 5/2/22	Sat 7/5/22	218 days 2 days	1452,1449,587							
454	Sheepile Extraction & Backilling	25 days	0 days	25 days	0%	Thu 12/8/21	Thu 9/9/21	NA	NA	Mon 9/5/22	Tue 7/6/22	218 days 1 day	1453							
455	Lift Structure - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Tue 1/6/21	Tue 1/6/21	NA	NA	Tue 3/5/22	Tue 3/5/22	336 days 0.5 day				1/6				
456	Lift Structure - Temp, Works Design and Method Statement Comment & Appraova			36 days	0%	Tue 1/6/21	Tue 6/7/21	NA	NA	Tue 3/5/22	Tue 7/6/22	336 days 0.5 day	1455			1,,				
				-																
457	Lift Tower: Falsework & Formwork Erection, Rebar Fixing & Concreting		0 days	63 days	0%	Fri 10/9/21	Thu 11/11/21		NA	Wed 8/6/22	Tue 9/8/22	271 days 3 days	1454,1157,1456							
458	Lift installation (LT1 & LT2)	90 days	0 days	90 days	0%	Fri 24/12/21	Tue 19/4/22	NA	NA	Fri 11/11/22	Tue 28/2/23	261 days 1 day	1457FS+36 days							
159	E & M installation	33 days	0 days	33 days	0%	Wed 20/4/22	Fri 27/5/22	NA	NA	Wed 1/3/23	Wed 12/4/23	261 days 3 days	1458							.
160	Louvers and Glazing Installation	27 days	0 days	27 days	0%	Sat 11/12/21	Fri 14/1/22	NA	NA	Thu 8/9/22	Wed 12/10/22	220 days 3 days	1457FS+25 days					-		
161	Parapet Installation and Finishing Works	40 days	0 days	40 days	0%	Sat 15/1/22	Sat 5/3/22	NA	NA	Thu 13/10/22	Mon 28/11/22	220 days 3 days	1460							.
62	Testing & commissioning	15 days	0 days	15 days	0%	Sat 28/5/22	Wed 15/6/22	NA	NA	Thu 13/4/23	Sat 29/4/23	261 days 0.5 days	1459							
463	CLP Meter Installation	0 days	0 days	0 days	0%	Mon 18/4/22	Mon 18/4/22		NA	Mon 18/4/22	Mon 18/4/22	0 days 0.5 day						<b>♦</b> 18/4		
464					0%	Wed 15/6/22	Wed 15/6/22						1450 1460					1014		
	EMSD Submission Form 5 for Lift Inspection	0 days		0 days					NA	Tue 2/5/23	Tue 2/5/23	320 days 0.5 day							0/0	
465	EMSD Lift Inspection	0 days	0 days	0 days	0%	Wed 29/6/22	Wed 29/6/22		NA	Tue 16/5/23	Tue 16/5/23	320 days 0.5 day							29/6	
466	Issuance of Lift Use Permit	0 days	0 days	0 days	0%	Thu 14/7/22	Thu 14/7/22	NA	NA	Tue 30/5/23	Tue 30/5/23	320 days 0.5 day	1465FS+15 days						14/7	
67	Staircase ST1	100 day	s 0 days	100 days	0%	Fri 12/11/21	Tue 15/3/22	NA	NA	Fri 25/11/22	Sat 25/3/23	309 days 5 days	587,367,1457					<del>                                      </del>		
468	Finishing and E&M Works	50 days	0 days	50 days	0%	Wed 16/3/22	Tue 17/5/22	NA	NA	Mon 27/3/23	Tue 30/5/23	309 days 0.5 day	1467,367							+
169	L12d Underground Drainage and Utilities Laying	75 days	0 days	75 days	0%	Mon 7/3/22	Tue 7/6/22	NA	NA	Tue 29/11/22	Tue 28/2/23	220 days 1 day	1457,1460,1461							
170	L12d Roadworks and Pedestrian, with Light Pole	36 days	0 davs	36 days	0%	Wed 8/6/22	Wed 20/7/22	NA	NA	Wed 1/3/23	Sat 15/4/23	220 days 1 day	1469,349							
71	L12d Roadworks and Pedestrian		0 days	36 days	0%	Thu 21/7/22	Wed 31/8/22		NA	Mon 17/4/23	Tue 30/5/23	220 days 1 day	1470							
													1470							
	pen Space & Promenade		s 0 days	564 days	0%	Mon 28/6/21	Thu 18/5/23		NA	Sun 1/8/21	Tue 30/5/23	9 days								
173	Open Space & Promenade (From Northern End - CH1720)	564 day	s 0 days	564 days	0%	Mon 28/6/21	Thu 18/5/23	NA	NA	Sun 15/8/21	Tue 30/5/23	9 days								
74	Observation Deck	358 day	s 0 days	358 days	0%	Tue 1/3/22	Fri 12/5/23	NA	NA	Fri 6/5/22	Tue 30/5/23	14 days						<del>                                     </del>		╷═┼═┪║
75	Foundation - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Tue 1/3/22	Tue 1/3/22	NA	NA	Fri 6/5/22	Fri 6/5/22	66 days 0.5 day						1/3		
76	Foundation - Temp. Works Design and Method Statement Comment &	45 days	0 days	45 days	0%	Tue 1/3/22	Thu 14/4/22	NA	NA	Fri 6/5/22	Sun 19/6/22	66 days 0.5 day	1475,639,646							
.77	Appraoval G.I. works for LT5	12 days	0 days	12 days	0%	Sat 4/6/22	Fri 17/6/22	NA	NA	Mon 20/6/22	Mon 4/7/22	13 days 2 days	1447,611,604,15					#		
178	Design Vertification	25 days	0 days	25 days	0%	Sat 18/6/22	Mon 18/7/22	NA	NA	Tue 5/7/22	Tue 2/8/22	13 days 1 day	1477							.
179	Predrilling works for Socket H- pile	12 days	0 days	12 days	0%	Tue 19/7/22	Sat 30/7/22	NΔ	NA	Wed 3/8/22	Sun 14/8/22	15 days	1478							.
180	Socket H-pile Installation											12 days 2 days	367,1155,726,14							
	•		0 days	37 days	0%	Mon 1/8/22	Tue 13/9/22		NA	Mon 15/8/22	Tue 27/9/22									
481	Pile Testing	43 days	0 days	43 days	0%	Wed 14/9/22	Fri 4/11/22	NA	NA	Wed 28/9/22	Fri 18/11/22	12 days 1 day	1480							
182	Structure & Lift Core - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 20/6/22	Mon 20/6/22	NA	NA	Wed 5/10/22	Wed 5/10/22	107 days 0.5 day						<b>a</b> 20	0/6	
483	Structure & Lift Core - Temp. Works Design and Method Statement Comment & Appraoval	45 days	0 days	45 days	0%	Mon 20/6/22	Wed 3/8/22	NA	NA	Wed 5/10/22	Fri 18/11/22	107 days 0.5 day	1482							.
184	Trech Excavation for Pipe Laying Works	30 days	0 days	30 days	0%	Sat 4/6/22	Sat 9/7/22	NA	NA	Wed 15/6/22	Wed 20/7/22	9 days 2 days	15							
185	Pipe laying works, Cable Laying and Drawpits	36 days	0 days	36 days	0%	Mon 11/7/22	Sat 20/8/22	NA	NA	Thu 21/7/22	Wed 31/8/22	9 days 5 days	15,1484							
186	Observation Deck: Substructure with Excavation/ELS works	36 days	0 days	36 days	0%	Sat 5/11/22	Fri 16/12/22	NA	NA	Sat 19/11/22	Sat 31/12/22	12 days 1 day	163,506,1483,14							
487	Observation Deck: Superstructure with Lift Core and Staircase work		0 days	72 days	0%	Sat 17/12/22	Sun 26/2/23		NA	Mon 2/1/23	Tue 14/3/23	16 days 1 day	1486							
488					0%															
	LTS: Lift installation with T&C and Statutory Inspection		0 days	60 days		Mon 27/2/23	Fri 12/5/23		NA	Wed 15/3/23	Tue 30/5/23	14 days 1 day	713,1487							
489	E&M and ABWF works, Landscaping and paving works	110 day	s 0 days	110 days	0%	Sat 17/12/22	Thu 4/5/23		NA	Thu 12/1/23	Tue 30/5/23	21 days 3 days	1528,717,1486							
490	Toilet	416 day	s 0 days	416 days	0%	Mon 28/6/21	Wed 16/11/2	2 NA	NA	Sun 15/8/21	Fri 24/2/23	41 days							<del>       </del>	
491	Foundation - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 28/6/21	Mon 28/6/21	NA	NA	Sun 15/8/21	Sun 15/8/21	48 days 0.5 days				<b>◆</b> 28/6				
492	Foundation - Temp. Works Design and Method Statement Comment &	45 days	0 days	45 days	0%	Sat 24/7/21	Mon 6/9/21	NA	NA	Sun 15/8/21	Tue 28/9/21	22 days 0.5 days	1491,639,646							
493	Appraoval Footing	16 days	0 days	16 days	0%	Thu 16/9/21	Wed 6/10/21	NA	NA	Wed 29/9/21	Tue 19/10/21	10 days 0.5 days	987,611,604,618							
494	Structure - Temp. Works Design and Method Statement Submission		0 days	0 days	0%	Mon 26/7/21	Mon 26/7/21		NA	Fri 3/9/21	Fri 3/9/21	39 days 0.5 days				<b>♦</b> 26/7				
495	Structure - Temp. Works Design and Method Statement Comment &				0%	Mon 26/7/21	Fri 10/9/21		NA NA	Fri 3/9/21	Tue 19/10/21									
773	Appraoval	47 days	o days	47 days	0.70	1011 20/1/21	111 10/9/21	INA	INA	171 313121	1 uc 19/10/21	39 days 2 days	1474							
le: Rev.11 P	rog with Progress	Summary			Inactive N	_		Duration-c			Start-only	Е		mal Milestone	<b>\$</b>		ritical Split	-		
-	20 Split	Project Sur	mmary		Inactive S	ummary		Manual Su	mmary Rollup 🛮		Finish-only	3	Dead	lline	1	Pi	rogress	_		_

						Cont	Iact No. ED	/2018/01 K	(TD Project												
Γ	Task Name	Duration Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finis	ish Late Start	Late Finish	Total Slack	TRA	Predecessors	2020	04 01	2021	O4   O1	2022   Q2   Q3   Q	04 01 1	2023	04
96	Structure work	45 days 0 days	45 days	0%	Thu 7/10/21	Mon 29/11/21	NA	NA	Wed 20/10/21	Fri 10/12/21	10 days	0.5 days	1493,506,1495	Q2 Q3	Q4   Q1	Q2   Q3	Q4 Q1	<u>  Q2   Q3   Q</u>	Q4   Q1   C	22   Q3	<u>Q4</u>   <u>Q</u> .
97	MIC toilet unit	24 days 0 days	24 days	0%	Tue 30/11/21	Wed 29/12/21	NA	NA	Sat 11/12/21	Tue 11/1/22	10 days	0.5 days	1496								
98	MIC toilet unit: E&M and ABWF works	75 days 0 days	75 days	0%	Thu 30/12/21	Thu 31/3/22	NA	NA	Wed 23/2/22	Wed 25/5/22	43 days	3 days	1497,717								
99	Observation Tower Construction	31 days 0 days	31 days	0%	Thu 30/12/21	Tue 8/2/22	NA	NA	Wed 19/1/22	Sat 26/2/22	16 days	1 day	1496,1497								
500	Observation Tower: Building Works and E&M Works	76 days 0 days	76 days	0%	Wed 9/2/22	Thu 12/5/22	NA	NA	Mon 28/2/22	Tue 31/5/22	16 days	1 day	1499								
01	Refuse Collection Block and Back of House: Structure Works	101 days 0 days	101 days	0%	Wed 9/2/22	Sat 11/6/22	NA	NA	Fri 20/5/22	Sat 17/9/22	82 days	1 day	1496,1497,1499				#				
502	Refuse Collection Block and Back of House: Building Works and E&M	131 days 0 days	131 days	0%	Mon 13/6/22	Wed 16/11/22	NA	NA	Mon 19/9/22	Fri 24/2/23	82 days	1 day	1501								
03	Works Amphitheater	95 days 0 days	95 days	0%	Wed 9/2/22	Sat 4/6/22	NA	NA	Wed 11/5/22	Wed 31/8/22	74 days	5 days	1496,639,646,14				#				
04	Fast food (Light Refreshment) kiosk deck	45 days 0 days	45 days	0%	Tue 30/11/21	Mon 24/1/22	NA	NA	Thu 20/1/22	Wed 16/3/22	41 days	0.5 days	611,1496,604,61								
)5	Fast food (Light Refreshment) Kiosk: Building Works and E&M Works	86 days 0 days	86 days	0%	Sat 26/2/22	Sat 11/6/22	NA	NA	Thu 17/3/22	Thu 30/6/22	16 days	1 day	1504,639,646,14				+				
)6	Fitness Ground Lawn & Water Play Plaza	82 days 0 days	82 days	0%	Mon 13/6/22	Sat 17/9/22	NA	NA	Sat 2/7/22	Sat 8/10/22	16 days	1 day	days,1500FF+25 1505								
7	Stepped Stage and Seating & Back of House Facility (under Bridge D3)	30 days 0 days	30 days	0%	Mon 22/8/22	Mon 26/9/22		NA	Thu 1/9/22	Sat 8/10/22	9 days		1503,1485								
18	Trim and form formation level within Open Space & Promenade area	45 days 0 days	45 days	0%	Tue 27/9/22	Sat 19/11/22		NA	Mon 10/10/22	Wed 30/11/22	1		1507,1505,1506,								
19	Paving work & Hard Landscaping Works	45 days 0 days	45 days	0%		Thu 12/1/23		NA	Thu 1/12/22	Thu 26/1/23		2 days	1508,1500,1498								
.0	ABWF, E&M work and street furniture	75 days 0 days	75 days	0%		Mon 20/2/23		NA	Sat 25/2/23	Tue 30/5/23	79 days	-	1508,1509SS,15								
1	FSD Form 501 Submission for FS Inspection			0%									1510SS+50 days						тші і		
2		0 days 0 days	0 days		Mon 9/1/23		NA NA	NA	Mon 1/5/23	Mon 1/5/23	111 days								9/1		
	FSD Inspection	0 days 0 days	0 days	0%	Tue 24/1/23	Tue 24/1/23		NA	Tue 16/5/23	Tue 16/5/23	111 days		1511FS+15 days						24/1		
3	Issuance of FS Certificate	0 days 0 days	0 days	0%	Wed 8/2/23	Wed 8/2/23		NA	Tue 30/5/23	Tue 30/5/23	111 days		1512FS+15 days						♦ 8/2	.]]]	
4	Landscaping works and Planting works	100 days 0 days	100 days	0%	Fri 13/1/23	Thu 18/5/23		NA	Fri 27/1/23	Tue 30/5/23	1	4 days	1509,668,1503,6							1	
5	Open Space & Promenade (From CH1720 - South End)	477 days 0 days	477 days	0%	Mon 12/7/21	Mon 13/2/23		NA	Sun 1/8/21	Tue 30/5/23	18 days								7		
5	Modification Seawall - Temp. Works Design and Method Statement Submission	0 days 0 days	0 days	0%	Mon 12/7/21	Mon 12/7/21	NA	NA	Sun 1/8/21	Sun 1/8/21	20 days					12/	7				
7	Modification Seawall - Temp. Works Design and Method Statement Comment & Appraoval	k 30 days 0 days	30 days	0%	Mon 12/7/21	Tue 10/8/21	NA	NA	Sun 1/8/21	Mon 30/8/21	20 days	2 days	1516								
8	Modification (Seawall) CH1720-1820	150 days 0 days	150 days	0%	Wed 11/8/21	Fri 11/2/22	NA	NA	Tue 31/8/21	Thu 3/3/22	17 days	1 day	1517					<u> </u>			
9	Modification (Seawall) CH1820-1920	150 days 0 days	150 days	0%	Wed 15/9/21	Fri 18/3/22	NA	NA	Thu 7/10/21	Fri 8/4/22	17 days	1 day	1518SS+30 days					$h \mid   \mid   \mid   \mid   \mid  $			
0	Temporary toilet	24 days 0 days	24 days	0%	Mon 13/9/21	Tue 12/10/21	NA	NA	Fri 14/1/22	Mon 14/2/22	100 days	0.5 days	506,655,660								
1	Temporary Toilet: Building Works and E&M Works	75 days 0 days	75 days	0%	Wed 13/10/21	Wed 12/1/22	NA	NA	Sat 28/1/23	Sat 29/4/23	385 days	0.5 day	1520,655,660								
2	Temporary Management Office: Structure Works	45 days 0 days	45 days	0%	Sat 25/9/21	Thu 18/11/21	NA	NA	Wed 26/1/22	Tue 22/3/22	100 days	0.5 days	1520SS+10 days			4					
3	Temporary Management Office: Building Works and E&M Works	100 days 0 days	100 days	0%	Fri 19/11/21	Tue 22/3/22	NA	NA	Wed 23/3/22	Sat 23/7/22	100 days	0.5 day	1522,655,660					<del> </del>			
4	Floating Stage Concrete structure	18 days 0 days	18 days	0%	Sat 19/3/22	Sat 9/4/22	NA	NA	Sat 9/4/22	Tue 3/5/22	17 days	0 days	1519,1518,1522				•	<b>5</b>			
5	Stepped Seating at Southern End	24 days 0 days	24 days	0%	Mon 11/4/22	Wed 11/5/22	NA	NA	Wed 4/5/22	Tue 31/5/22	17 days	0.5 days	1524					<b>*</b>			
6	Trim and form formation level within Open Space & Promenade area	14 days 0 days	14 days	0%	Thu 12/5/22	Fri 27/5/22	NA	NA	Wed 1/6/22	Fri 17/6/22	17 days	0 days	1525							,	
7	Paving work and Landscaping Works	30 days 0 days	30 days	0%	Sat 28/5/22	Mon 4/7/22	NA	NA	Sat 18/6/22	Sat 23/7/22	17 days	0.5 days	1526,1522,1525,								
8	ABWF, E&M work and street furniture	75 days 0 days	75 days	0%	Tue 5/7/22	Fri 30/9/22	NA	NA	Mon 25/7/22	Sat 22/10/22	17 days	1 day	1527,717,1523								
.9	CLP Meter Installation	0 days 0 days	0 days	0%	Fri 30/9/22	Fri 30/9/22	NA	NA	Mon 1/5/23	Mon 1/5/23	212 days	0.5 day	1528,1521,1523					3	30/9		
80	FSD Form 501 Submission for FS Inspection	0 days 0 days	0 days	0%	Thu 8/12/22	Thu 8/12/22	NA	NA	Mon 1/5/23	Mon 1/5/23	144 days	0.5 day	1529						8/12		
1	FSD Inspection	0 days 0 days	0 days	0%	Thu 22/12/22			NA	Tue 16/5/23	Tue 16/5/23	144 days		1530FS+15 days						22/12		
2	Issuance of FS Certificate	0 days 0 days	0 days	0%	Fri 6/1/23	Fri 6/1/23		NA	Tue 30/5/23	Tue 30/5/23	144 days	-	1531FS+15 days						6/1		
13	Open Space & Promenade: Landscaping works	110 days 0 days	110 days	0%	Mon 3/10/22	Mon 13/2/23		NA	Mon 24/10/22	Sat 4/3/23	17 days	-	1528,668,1243Fl								
4	Open Space & Promenade: Planting works	110 days 0 days	110 days	0%	Mon 3/10/22	Mon 13/2/23		NA	Mon 24/10/22	Sat 4/3/23	17 days		1528,668,1243FI								
5	Part 1, 2A, 2B - Road L12	193 days 0 days	193 days	0%	Tue 23/8/22	Mon 17/4/23		NA	Thu 6/10/22	Tue 30/5/23	35 days		1020,000,124011								
6	Part 1, 2A, 2B - Road L12  Trim road formation			0%		Thu 25/8/22		NA NA					1274,1283,1296,						"		
		3 days 0 days	3 days		Tue 23/8/22				Thu 6/10/22	Sat 8/10/22	35 days	-									
37	Lay sub base	7 days 0 days	7 days	0%	Fri 26/8/22	Fri 2/9/22		NA	Mon 10/10/22	Mon 17/10/22			1536								
38	Lay kerb	12 days 0 days	12 days	0%	Sat 3/9/22	Sat 17/9/22		NA	Tue 18/10/22	Mon 31/10/22		-	1537					1			
39	Construct pedestrian street/ footpath	14 days 0 days	14 days	0%	Mon 19/9/22	Thu 6/10/22		NA	Tue 1/11/22	Wed 16/11/22		-	1538					1	.		
10	Install central median	14 days 0 days	14 days	0%	Fri 7/10/22	Sat 22/10/22	NA	NA	Thu 17/11/22	Fri 2/12/22	35 days	1 day	1539								
e: Re	ev. I I Prod with Progress	Summary		Inactive M			Duration-o			Start-only		С		nal Milestone	<b>♦</b>		Critical Split				
	2-May-20 Split	Project Summary		Inactive S	ummary		Manual Su	mmary Rollup		Finish-only		3	Dead	line	1		Progress				

							Con	tract No. ED/	2018/01 KT	D Project													
	Task Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	2020 O2   C	03   Q4	01   0	2021 2   Q3   Q4	01   02	2022 Q3 Q4	01   0	2023 02   Q3	Q4 Q1
1541	Concrete infill between profile barrier	7 days	0 days	7 days	0%	Mon 24/10/22	Mon 31/10/22	NA NA	NA	Sat 3/12/22	Sat 10/12/22	35 days	0 days	1540						F			
542	Road pavement	5 days	0 days	5 days	0%	Tue 1/11/22	Sat 5/11/22	NA	NA	Mon 12/12/22	Fri 16/12/22	35 days	0 days	1541						<u> </u>			
543	Install street furniture (Part 1, 2A, 2B - Road L12)	131 days	0 days	131 days	0%	Mon 7/11/22	Mon 17/4/23	NA	NA	Sat 17/12/22	Tue 30/5/23	35 days	6 days	1542									
544	Planting Works for Underpass, South Depress Road and At-Grade Road	130 days	0 days	130 days	0%	Mon 7/11/22	Sat 15/4/23	NA	NA	Mon 19/12/22	Tue 30/5/23	36 days	10 days	668									
545	Landscaping Works for Underpass, South Depress Road and At-Grade	130 days	0 days	130 days	0%	Mon 7/11/22	Sat 15/4/23	NA	NA	Mon 19/12/22	Tue 30/5/23	36 days	10 days	668						+			
546	Planned Completion for Section 6	0 days	0 days	0 days	0%	Thu 18/5/23	Thu 18/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	9 days	0 days	1533,1543,1532,								18/5	
547	Section 7	365 days	0 days	365 days	0%	Mon 6/3/23	Wed 29/5/24	NA	NA	Mon 6/3/23	Wed 29/5/24	0 days											
548	Establishment work for landscape softwork	365 days	0 days	365 days	0%	Mon 6/3/23	Wed 29/5/24	NA	NA	Mon 6/3/23	Wed 29/5/24	0 days	10 days	1533,1534									
549	Planned Completion for Section 7	0 days	0 days	0 days	0%	Wed 29/5/24	Wed 29/5/24	NA	NA	Wed 29/5/24	Wed 29/5/24	0 days		1548,6									
550	Section 10 (Subject to Excision)	614 days	0 days	614 days	0%	Tue 20/4/21	Thu 11/5/23	NA	NA	Mon 10/5/21	Tue 30/5/23	15 days					_					1	
551	Decking for Underpass (Rd L14)	614 days	0 days	614 days	0%	Tue 20/4/21	Thu 11/5/23	NA	NA	Mon 10/5/21	Tue 30/5/23	15 days					-					ı	
552	Deck for Underpass (Road L14) - Temp. Works Design and Method Statement	0 days	0 days	0 days	0%	Tue 20/4/21	Tue 20/4/21	NA	NA	Mon 10/5/21	Mon 10/5/21	20 days	0.5 day				• 1	20/4					
553	Deck for Underpass (Road L14) - Temp. Works Design and Method Statement Comment & Appraoval	21 days	0 days	21 days	0%	Tue 20/4/21	Mon 10/5/21	NA	NA	Mon 10/5/21	Sun 30/5/21	20 days	0.5 day	1552			*						
554	Support along U-through	225 days	0 days	225 days	0%	Mon 31/5/21	Tue 1/3/22	NA	NA	Mon 31/5/21	Tue 1/3/22	0 days	10 days	23,185,1553,192			,						
555	Plinth installation along support	123 days	0 days	123 days	0%	Wed 2/3/22	Fri 29/7/22	NA	NA	Wed 2/3/22	Fri 29/7/22	0 days	6 days	1554					•	<b>—</b>			
556	Placing of beam along underpass	90 days	0 days	90 days	0%	Thu 1/9/22	Sun 18/12/22	NA	NA	Thu 1/9/22	Mon 19/12/22	0 days	4 days	1555FS+28 days						+	$\blacksquare$		
557	Finishing and E&M Works	110 days	0 days	110 days	0%	Mon 19/12/22	Fri 5/5/23	NA	NA	Thu 12/1/23	Tue 30/5/23	20 days		1556,279							+		
558	Cover-up (Roof)	115 days	0 days	115 days	0%	Mon 19/12/22	Thu 11/5/23	NA	NA	Mon 19/12/22	Thu 11/5/23	0 days	5 days	1556							<u> </u>	H	
559	Planned Completion for Section 10	0 days	0 days	0 days	0%	Thu 11/5/23	Thu 11/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	19 days	0.5 days	1558,158,1557								11/5	

## Appendix C – Apply permission for Environmental Monitoring

### Propose alternative monitoring location: The Lok Sin Tong Modular Social Housing Scheme Status: Rejected application Email on: 10 May 2022 Email on: 13 October 2022 Subject The Lok Sin Tong Benevolent Society Kowloon - Apply Subject The Lok Sin Tong Benevolent Society Kowloon - Reject to Apply permission for Environmental Monitoring for Stage 4 of Kai Tak permission for Environmental Monitoring for Stage 4 of Kai Tak Development Development From To To Bcc Bcc 2022-05-10 15:48 2022-10-13 15:52 Date Figure 1 Impact dust measurement setup.jpg(~1.2 MB) Company: The Lok Sin Tong Benevolent Society Kowloon Figure 2 Impact noise measurement setup.jpg(~979 KB) By Email Company: The Lok Sin Tong Benevolent Society Kowloon By Email Referring to the communication between your staff and me regarding the captioned work at 21 September 2022, the Lok Sin Tong Benevolent Society Kowloon was rejected the apply permission for Environmental Monitoring Dear Mada for Stage 4 of Kai Tak Development. 5 May 2022 Due to electricity supply and security concern in Modular House , Environmental monitoring at Modular House is not allowed open. Should you have any enquires regarding the measurement, please do not hesitate to contact Re: Environmental Monitoring for Kai Tak Development - Stage 4 Infrastructure at the former runway and south Thank you for your kind attention and I look forward to receiving your favourable reply soon. We, Ka Shing Management Consultant Limited (KS), is appointed by Civil Engineering and Development Department (CEDD), working as Environmental Team (ET) to conduct the monitoring and audit works as part of Yours Sincerely, the EM&A programme of the Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron (KTD Stage 4 Project) starting from July 2019 to May 2024. Lee Wing Hang Ka Shing Management Consultant Limited KTD Stage 4 project is located in the south-eastern part of Kowloon Peninsular 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. Your premise, Hong Kong Society for Blind Workshop and Hotels, is one of the proposed sensitive receivers. We would like to obtain your kind permission for entering the premise to carry out baseline and impact monitoring, baseline dust monitoring (1-hour and 24-hour TSP monitoring) and baseline noise monitoring (30minute) would need to conduct continuously for 14 days, our propose baseline monitoring date is June 2022. After baseline monitoring, impact dust monitoring (1-hour and 24-hour TSP monitoring) and impact noise monitoring (30-minute) would take place between 08:00 hrs to 18:00 hrs in normal working days once every six The monitoring location will be located on the roof top floor of The Lok Sin Tong Modular Social Housing Scheme at Junction of Sung Wong Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP monitor with size 0.5m (L) x 0.5m (W) x 1.4m (H). We will pay for the electricity. Similar setup photo records are shown in Figure 1 and Figure 2 for your kindly reference. Our technician will stay at the measurement point for 1-hour TSP and 30-mintue noise measurement. We hope to conduct site visit at 13:30 pm of 25 May 2022 (Wed). Should you have any enquires regarding the measurement, please do not hesitate to contact Thank you for your kind attention and I look forward to receiving your favourable reply soon. Yours Sincerely Lee Wing Hang Ka Shing Management Consultant Limited

opose alternative monitoring location: Freder Centre
atus: No reply from building management office unit the reporting month
nail on: 19 July 2022
Subject Freder Centre - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development
From 10011000000
то
Bcc Bcc
Date 2022-07-19 13:33
<ul> <li>Figure 1 Impact dust measurement setup.jpg(~1.2 MB)</li> <li>Figure 2 Impact noise measurement setup.jpg(~979 KB)</li> </ul>
Community Fooders Contra
Company: Freder Centre  By Email
Dear Sir
Re: Environmental Monitoring for Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron
We, Ka Shing Management Consultant Limited (KS), is appointed by Civil Engineering and Development
Department (CEDD), working as Environmental Team (ET) to conduct the monitoring and audit works as part of the EMBA programme of the Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron (KTD Stage 4 Project) starting from July 2019 to May 2024.
KTD Stage 4 project is located in the south-eastern part of Kowloon Peninsular 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. Your premise, Hong Kong Society for Blind Workshop and Hotels, is one of the proposed sensitive receivers.
We would like to obtain your kind permission for entering the premise to carry out baseline and impact monitoring, baseline dust monitoring (1-hour and 24-hour TSP monitoring) and baseline noise monitoring (30-minute) would need to conduct continuously for 14 days, our propose baseline monitoring date is August 2022.
After baseline monitoring, impact dust monitoring (1-hour and 24-hour TSP monitoring) and impact noise monitoring (30-minute) would take place between 08:00 hrs to 18:00 hrs in normal working days once every six days.
The monitoring location will be located on the roof top floor of Freder Centre at Junction of Sung Wong Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP monitor with size 0.5m (L) x 0.5m (W) x 1.4m (H). We will pay for the electricity. Similar setup photo records are shown in Figure 1 and Figure 2 for your kindly reference. Our technician will stay at the measurement point for 1-hour TSP and 30-mintue noise measurement.
We hope to conduct site visit at 15:30pm of 26 July 2022 (Tue).
Should you have any enquires regarding the measurement, please do not hesitate to contact at
Thank you for your kind attention and I look forward to receiving your favourable reply soon.
Yours Sincerely,
Lee Wing Hang Ka Shing Management Consultant Limited

### Propose alternative monitoring location: New Port Centre Status: No reply from building management office unit the reporting month Email on: 19 July 2022 Email on: 17 August 2022 New Port Centre - Apply permission for Environmental Kum Shing Group and Hong Kong Energy Infrastructure Limited -Monitoring for Stage 4 of Kai Tak Development Apply permission for Environmental Monitoring for Stage 4 of Kai From Tak Development From To Bcc To Bcc Date 2022-07-19 13:33 2022-08-17 11:54 Date Figure 1 Impact dust measurement setup.jpg(~1.2 MB) Figure 2 Impact noise measurement setup.jpg(~979 KB) Figure 1 Impact dust measurement setup.jpg(~1.2 MB) Company: New Port Centre & Synergis management services limited Figure 2 Impact noise measurement setup.jpg(~979 KB) plug 01.jpg(~2.6 MB) By Email Company: Kum Shing Group and Hong Kong Energy Infrastructure Limited Dear Sir Re: Environmental Monitoring for Kai Tak Development - Stage 4 Infrastructure at the former runway and south By Email apron Dear Si We, Ka Shing Management Consultant Limited (KS), is appointed by Civil Engineering and Development Department (CEDD), working as Environmental Team (ET) to conduct the monitoring and audit works as part of Re: Environmental Monitoring for Kai Tak Development - Stage 4 Infrastructure at the former runway and south the EM&A programme of the Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron (KTD Stage 4 Project) starting from July 2019 to May 2024. We, Ka Shing Management Consultant Limited (KS), is appointed by Civil Engineering and Development KTD Stage 4 project is located in the south-eastern part of Kowloon Peninsular of the HKSAR, comprising the Department (CEDD), working as Environmental Team (ET) to conduct the monitoring and audit works as part of apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau the EM&A programme of the Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. Your premise, New Port Centre, is one of the proposed (KTD Stage 4 Project) starting from July 2019 to May 2024. We would like to obtain your kind permission for entering the premise to carry out baseline and impact KTD Stage 4 project is located in the south-eastern part of Kowloon Peninsular of the HKSAR, comprising the monitoring, baseline dust monitoring (1-hour and 24-hour TSP monitoring) and baseline noise monitoring (30apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau minute) would need to conduct continuously for 14 days, our propose baseline monitoring date is August 2022. Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. Your premise, New Port Centre, is one of the proposed sensitive receivers. After baseline monitoring, impact dust monitoring (1-hour and 24-hour TSP monitoring) and impact noise monitoring (30-minute) would take place between 08:00 hrs to 18:00 hrs in normal working days once every six We would like to obtain your kind permission for entering the premise to carry out baseline and impact monitoring, baseline dust monitoring (1-hour and 24-hour TSP monitoring) and baseline noise monitoring (30minute) would need to conduct continuously for 14 days, our propose baseline monitoring date is August 2022. The monitoring location will be located on the roof top floor of New Port Centre at Junction of Sung Wong Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP After baseline monitoring, impact dust monitoring (1-hour and 24-hour TSP monitoring) and impact noise monitor with size 0.5m (L) $\times$ 0.5m (W) $\times$ 1.4m (H). We will pay for the electricity. Similar setup photo records are shown in Figure 1 and Figure 2 for your kindly reference. Our technician will stay at the monitoring (30-minute) would take place between 08:00 hrs to 18:00 hrs in normal working days once every six measurement point for 1-hour TSP and 30-mintue noise measurement. The monitoring location will be located on the roof top floor of New Port Centre at Junction of Sung Wong We hope to conduct site visit at 13:30pm of 26 July 2022 (Tue). Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP monitor with size 0.5m (L) x 0.5m (W) x 1.4m (H). We will pay for the electricity. Similar setup photo Should you have any enquires regarding the measurement, please do not hesitate to contact records are shown in Figure 1 and Figure 2 for your kindly reference. Our technician will stay at the measurement point for 1-hour TSP and 30-mintue noise measurement. Thank you for your kind attention and I look forward to receiving your favourable reply soon. We hope to loan the company on the roof top floor of Plug 01 for 24-hour TSP monitor of power supply. Yours Sincerely, Should you have any enquires regarding the measurement, please do not hesitate to contact Lee Wing Hang Ka Shing Management Consultant Limited Thank you for your kind attention and I look forward to receiving your favourable reply soon.

Yours Sincerely,

Ka Shing Management Consultant Limited

Propose alternative monitoring location: New Port Centre Status: No reply from building management office unit the reporting month Email on: 19 August 2022 Email on: 15 September 2022 New Port Centre - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development Subject RE: Kum Shing Group and Hong Kong Energy Infrastructure Limited - Apply permission for Environmental Monitoring for To Bcc Stage 4 of Kai Tak Development 2022-09-15 15:35 From • Figure 1 Impact dust measurement setup.jpg(~1.2 MB) Figure 2 Impact noise measurement setup.jpg(~979 KB) To Figure 3 expect Impact dust measurement setup.png(~267 KB) Figure 4 power supply plug.jpg(~2.6 MB) Company: New Port Centre & Synergis management services limited 2022-08-19 08:36 Re: Environmental Monitoring for Kai Tak Development - Stage 4 Infrastructure at the former runway and south Dear Mr. LEE, We, Ka Shing Management Consultant Limited (KS), is appointed by Civil Engineering and Development Department (CEDD), working as Environmental Team (ET) to conduct the monitoring and audit works as part of the EM&A programme of the Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron As we do not have ownership to the roof, we'd suggest you to approach the management company of Newport (KTD Stage 4 Project) starting from July 2019 to May 2024. Center for further discussion. KTD Stage 4 project is located in the south-eastern part of Kowloon Peninsular 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 https://www.synergis.com.hk/html/en/ Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. Your premise, New Port Centre, is one of the proposed sensitive receivers. We would like to obtain your kind permission for entering the premise to carry out baseline and impact monitoring, baseline dust monitoring (1-hour and 24-hour TSP monitoring) and baseline noise monitoring (30best, minute) would need to conduct continuously for 14 days, our propose baseline monitoring date is August 2022. Paul Lee After baseline monitoring, impact dust monitoring (1-hour and 24-hour TSP monitoring) and impact noise monitoring (30-minute) would take place between 08:00 hrs to 18:00 hrs in normal working days once every six The monitoring location will be located on the roof top floor of New Port Centre at Junction of Sung Wong Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP monitor with size 0.5m (L)  $\times$  0.5m (W)  $\times$  1.4m (H). We will pay for the electricity. Similar setup photo records are shown in Figure 1 and Figure 2 for your kindly reference. The expect of impact dust measurement setup photo records are shown in Figure 3 and the power supply will come from the roof of the socket (Figure 4) for reference. Our technician will stay at the measurement point for 1-hour TSP and 30-mintue Should you have any enquires regarding the measurement, please do not hesitate to contact Thank you for your kind attention and I look forward to receiving your favourable reply soon. Yours Sincerely, Ka Shing Management Consultant Limited

## Appendix D – Environmental monitoring schedules

# Contract No. EDO 15/2018 Environmental Monitoring at Kai Tak Development Stage 4 Infrastructure at the former runway and south apron Environmental Monitoring and Weekly Site Inspection Schedule for April 2023

## April 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7
2	3	4	5	6 Weekly Site Inspection 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	7	8
9	10	11	12 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12 Weekly Site Inspection+ SSMC meeting	13	14	15
16	17	18 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	19	Weekly Site Inspection	21	22
23	24 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	25	26	27 Weekly Site Inspection	28	29 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7
30						

## NOTE:

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

## **Air Quality Monitoring Station**

AM3 - Sky Tower

 $\ensuremath{\mathsf{AM4}}(A)$  - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

AM7 - Hong Kong Children's Hospital

## **Noise Quality Monitoring Station**

M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

M12 - Hong Kong Children's Hospital

## Contract No. EDO 15/2018 Environmental Monitoring at Kai Tak Development Stage 4 Infrastructure at the former runway and south apron Tentative Environmental Monitoring and Weekly Site Inspection Schedule for May 2023

## May 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4 Weekly Site Inspection	5 24-hr TSP: AM3, 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	6
7	8	9	10 Weekly Site Inspection + SSMC meeting	11 24-hr TSP: AM3, AM4(A), AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	12	13
14	15	16	17 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	18 Weekly Site Inspection	19	20
21	22	23 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	24	25 Weekly Site Inspection	26	27
28	29 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	30	31			

## NOTE:

- Site inspection schedule and Impact monitoring schedule may be changed due to unforeseen circumstance (e.g. adverse weather).
- Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A) and M11), the premises owner rejected ET to conduct impact monitoring starting from 1 Sept 2022. No 24-TSP monitoring will be conducted at AM4(A) while 1-hr TSP at AM4(A) and 30-min noise monitoring at M11 will be conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for AM4(A) and M11 are confirmed.

## **Air Quality Monitoring Station**

AM3 - Sky Tower

AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

AM7 - Hong Kong Children's Hospital

## **Noise Quality Monitoring Station**

M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

M12 - Hong Kong Children's Hospital

## **Appendix E – Photographic records**

## Impact TSP Monitoring



Measurement setup at AM3



Measurement setup at AM4(A)

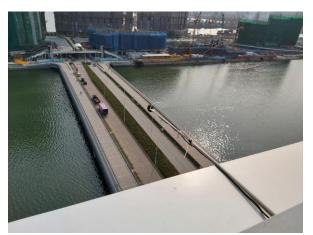


Measurement setup at AM7

## Impact Noise Monitoring



Measurement setup at M11



Measurement setup at M12



Weather Station at the rooftop of Hong Kong Children's Hospital

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

## Catalogue of High Volume Sampler (HVS)



Suspended Particulate (TSP) air sampler featuring a mass flow controller (MFC) for accurate and consistent particulate sampling. The mass flow controller adjust the motor speed as the filter media collects particulate to maintain a constant flow rate throughout the entire sample duration. The system utilizes a stainless steel filter holder for use with standard 8" x 10" filter paper. The anodized aluminum shelter and robust electrical components allow the system to operate a continuous 24 hour sample.

ABOUT US: Tisch Environmental Inc. Tisch Environmental is the benchmark for high volume air sampling, particulate. metals, volatiles, and specialty monitoring equipment. Since the company's inception in 1953 as General Metal Works, our product line has expanded from the first high volume air sampler to include high-tech and custom samplers. Our clients are professionals from every sector of the regulatory and industrial markets.

TISCH 🕡

Mass Flow Controlled

- 7-Day Mechanical Timer
- Flapsed Time Indicator
- Aluminum Outdoor Shelter
- Brush Style Motor
- Dickson Chart Recorder, 24 Hour
- Stainless Steel Filter Holder
- 36-60 CFM
- Made In USA

www.tisch-env.com

TE-5170 TSP MFC, 110 Volt 60 Hertz, 8 Amps TE-5170X TSP MFC, 220 Volt 50 Hertz 4 Amps TE-5170XZ TSP MFC, 220 Volts 60 Hertz, 4 Amps



## TSP MFC

MFC TSP Ambient Air Sampler

Particulate Size: Total Suspended Particulate (TSP) EPA Designation: CFR 40 Part 50 Appendix B Flow Controller: Mass Flow Controller Motor Style: Brush Style Motor Assembly

Pressure Recorder: Dickson Chart Recorder, 24 hour

Timer: 7 Day Mechanical

Elapsed Time Indicator: Mechanical, Hours and Tenths

Flow Range: 39-60CFM, 1.09M<sup>3</sup>M-1.68M<sup>3</sup>M

Housing: Anodized Aluminum Filter Holder: Stainless Steel, 8" x 10" 4" Recorder Charts: Box of 100

Filter Holder: 8" x 10" Stainless Steel with hold down frame

US EPA Reference Method Sampling, CFR Appendix J Part 50 Regulatory Compliance

Institutional Studies Construction Sites

Bridge and Water Tower Painting Sites

Fence Line Monitoring Industrial Monitoring Landfill Monitoring

Public Health Applications

TE-3000 Filter Holder Cartridge TE-G653 8" x 10" Glass Fiber Filter Media TE-33384 Motor Brush Set (110volt)

TE-33378 Motor Brush Set (220volt) TE-116311 Replacement Motor (110volt)

TE-116312 Replacement Motor (220volt) TE-106 Recorder Charts TE-160 Recorder Pen Points TE-5018 Gasket 8" x 10"

TE-5028 -Variable Flow Calibration Kit TE-HVC-V Xcalibrator HiVol Calibrator

Weight: 75lbs, Shelter

Shipping Dimensions: 46"W x 23"L x 20" H, Shelter 19"W x 19"L x 20"H, Lid

Assembled Dimensions: 28"W x 28"L x 61"H



## Calibration Certificate of HVS

## Air Sampler Calibration Curve Plotting & Calculation (Dickson recorder)

Calibration curve ref. No. :	ATSPC-01-2023022101	Date of calibration :	21/02/2023	
Landing	Class Tassass	C1 ·	TE-5170X	
Location :	Sky Tower	Sampler :	1E-31/0X	
Calibration Data				

Ambient barometric pressure, Pa = 766.6 (mmHg) Ambient temperature, Ta = 292.75 (deg K)

Qstd Intercept, b = -0.035930

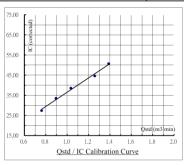
## Calibration Curve

Qstd Slope, m = 2.06418

Plate No.	H <sub>2</sub> O	Qstd	I	IC
Flate No.	( in )	( m <sup>3</sup> / min )	( chart )	( corrected )
18	7.80	1.388	50.0	50.67
13	6.40	1.259	44.0	44.59
10	4.30	1.035	38.0	38.51
7	3.20	0.896	33.0	33.44
5	2.30	0.762	27.0	27.36

Subsequent calculation of sampler flow

Method	Calibration equation	Slope, m	Intercept, b	Corr. coeff., r	
Dickson recorder	Qstd = 1 / m1 [ (1) ( Sqrt (( Pav / 760 ) ( 298 / Tav ) ) ) - b1 ]	35.474	1.0277	0.9957	ı



Calibration curve requirements : (A). r > 0.990; (B). At least 3 Qstd numbers are in the TSP range (1.1 - 1.7 m3 / min ).

Remark: Qstd ( m³ / min ) = 1/m [ Sqrt ( H<sub>2</sub>O ( Pa / 760 ) ( 298 / Ta ) ) - b ].

IC ( corrected ) = I [ Sqrt ( ( Pa / 760 ) ( 298 / Ta ) ) ].

FLOW (corrected) = Sqrt (FLOW (mano) (Pa / 760) (298 / Ta)).

Calibrated by: Checked by: Checked by: Wong Yin Tong )

Name: ( Poon Tsz Wing ) Name: ( Wong Yin Tong )

Form No. INS-HVS-CAL dd 16 01 2020

## Air Sampler Calibration Curve Plotting & Calculation

(Dickson recorder)

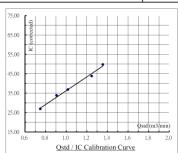
Calibration curve ref. No. :	ATSPC-01-202304200	1 Date of calibration :	20/04/2023
Location :	Sky Tower	Sampler :	TE-5170X
Calibration Data			
Ambient barometric pressure	, Pa = 753.1 ( mm	Hg ) Ambient temperature, T	Ta = 297.95  (deg K)
Qstd Slope, m = 2.064	18	Qstd Intercept, b =	-0.035930

### Calibration Curve

Plate No.	H <sub>2</sub> O	Qstd	I	IC
Flate No.	( in )	( m <sup>3</sup> / min )	( chart )	( corrected )
18	7.70	1.356	50.0	49.78
13	6.50	1.247	44.0	43.80
10	4.30	1.017	37.0	36.83
7	3.40	0.907	34.0	33.85
5	2.30	0.749	27.0	26.88

Subsequent calculation of sampler flow

Method	Calibration equation	Slope, m	Intercept, b	Corr. coeff., r
Dickson recorder	Qstd = 1 / m1 [ ( I ) ( Sqrt ( ( Pav / 760 ) ( 298 / Tav ) ) ) - b1 ]	35.674	0.5845	0.9947



Calibration curve requirements : (A). r > 0.990; (B). At least 3 Qstd numbers are in the TSP range (1.1 - 1.7 m3 / min).

Remark : Qstd ( $m^3$ /min) = 1/m [ Sqrt ( $H_2O$  (Pa/760) (298/Ta)) - b]. IC (corrected) = 1 [ Sqrt ((Pa/760) (298/Ta))].

FLOW (corrected) = Sqrt (FLOW (mano) (Pa / 760) (298 / Ta)).

Calibrated by: Checked by: Wong Yin Tong

Name: ( Poon Tsz Wing ) Name: ( Wong Yin Tong )

Form No. INS-HVS-CAL dd 16 01 2020

## Calibration Certificate of HVS

## Air Sampler Calibration Curve Plotting & Calculation

### (Dickson recorder)

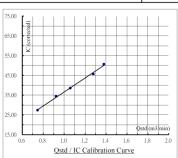
Calibration curv	ve ref. No. :	ATSPC-01-20	23022103	Date of calibration :	21/02/2023	
Location :	Hong Kong	Children's Hos	spital	Sampler :	TE-5170X	
Calibration Da	<u>ta</u>					
Ambient barom	etric pressure, Pa	= 766.6	( mmHg )	Ambient temperature, Ta	292.75	( deg K )
Ostd Slope, m =	2.06418			Ostd Intercept, b = -0	0.035930	

### **Calibration Curve**

Plate No.	H <sub>2</sub> O	Qstd	I	IC	
	Flate No.	( in )	( m <sup>3</sup> / min )	( chart )	( corrected )
	18	7.70	1.380	50.0	50.67
	13	6.60	1.279	45.0	45.60
	10	4.50	1.059	38.0	38.51
	7	3.40	0.923	34.0	34.45
	5	2.20	0.746	27.0	27.36

### Subsequent calculation of sampler flow

Method	Calibration equation	Slope, m	Intercept, b	Corr. coeff., r	
Dickson recorder	Qstd = 1 / m1 [ (1) ( Sqrt (( Pav / 760 ) ( 298 / Tav ) ) ) - b1 ]	35.426	1.1498	0.9977	



 $Calibration \ curve \ requirements: \quad (A). \ \ r > 0.990 \ ; \ \ (B). \ \ At \ least \ 3 \ Qstd \ numbers \ are in the \ TSP \ range \ (1.1 - 1.7 \ m3 \ / \ min \ ).$ 

Remark : Qstd (  $m^3 / min$  ) = 1/m [ Sqrt (  $H_2O$  ( Pa / 760 ) ( 298 / Ta ) ) - b ].

IC (corrected) = I [ Sqrt ((Pa / 760)(298 / Ta))].

FLOW ( corrected ) = Sqrt ( FLOW ( mano ) ( Pa / 760 ) ( 298 / Ta ) ).

Calibrated by : Checked by : Checked by : Wong Yin Tong )

Name : ( Poon Tsz Wing ) Name : ( Wong Yin Tong )

Form No. INS-HVS-CAL dd 16 01 2020

## Air Sampler Calibration Curve Plotting & Calculation

(Dickson recorder)

 Calibration curve ref. No.:
 ATSPC-01-2023042003
 Date of calibration:
 20/04/2023

 Location:
 Hong Kong Children's Hospital
 Sampler:
 TE-5170X

 Calibration Data

 Ambient barometric pressure, Pa =
 753.1
 (mmHg)
 Ambient temperature, Ta =
 297.95
 (deg K)

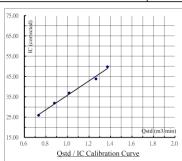
 Qstd Slope, m =
 2.06418
 Qstd Intercept, b =
 -0.035930

### Calibration Curve

Plate No.	H <sub>2</sub> O	Qstd	I	IC
riate No.	( in )	( m <sup>3</sup> / min )	( chart )	( corrected )
18	7.90	1.373	50.0	49.78
13	6.70	1.266	44.0	43.80
10	4.30	1.017	37.0	36.83
7	3.20	0.880	32.0	31.86
5	2.20	0.733	26.0	25.88

### Subsequent calculation of sampler flow

Method	Calibration equation	Slope, m	Intercept, b	Corr. coeff., r	
Dickson recorder	Qstd = 1 / m1 [ ( I ) ( Sqrt ( ( Pav / 760 ) ( 298 / Tav ) ) ) - b1 ]	35.499	0.2207	0.9957	



Calibration curve requirements : (A). r > 0.990; (B). At least 3 Qstd numbers are in the TSP range (1.1 - 1.7 m<sup>3</sup> / min ).

Remark: Qstd  $(m^3 / min) = 1/m [ Sqrt (H_2O (Pa / 760) (298 / Ta)) - b ].$ 

IC (corrected) = I [Sqrt ((Pa / 760)(298 / Ta))].

FLOW (corrected) = Sqrt (FLOW (mano) (Pa / 760) (298 / Ta)).

Calibrated by : Checked by : Checked by : Wong Yin Tong

Name : ( Wong Yin Tong )

Form No. INS-HVS-CAL dd 16 01 2020

## Calibration Certificate of HVS

#### Air Sampler Calibration Curve Plotting & Calculation

#### (Dickson recorder)

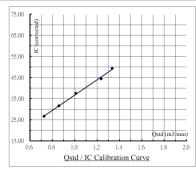
Calibration curve ref. No. :	ATSPC-01-202	22062001	Date of calibration :	20/06/2022	
Model no :	GS2310		Serial number :	10346	
Calibration Data					
Ambient barometric pressure,	Pa = 753.1	( mmHg )	Ambient temperature, Ta =	303.35	( deg K )
Qstd Slope, m = 2.0641	8		Qstd Intercept, b = -0.0	035930	

#### Calibration Curve

Plate No.	H <sub>2</sub> O	Qstd	I	IC
1 1410 1 101	( in )	( m <sup>3</sup> / min )	( chart )	( corrected )
18	7.60	1.335	50.0	49.33
13	6.50	1.236	45.0	44.40
10	4.30	1.009	38.0	37.49
7	3.10	0.859	32.0	31.57
5	2.20	0.726	27.0	26.64

#### Subsequent calculation of sampler flow

Method	Calibration equation	Slope, m	Intercept, b	Corr. coeff., r
Dickson recorder	Qstd = 1 / m1 [ ( I ) ( Sqrt ( ( Pav / 760 ) ( 298 / Tav ) ) ) - b1 ]	36.268	0.4215	0.9982



Calibration curve requirements: (A). r > 0.990; (B). At least 3 Qstd numbers are in the TSP range (1.1 - 1.7 m3 / min).

Remark : Qstd (  $m^3 / min$  ) = 1/m [ Sqrt (  $H_2O$  ( Pa / 760 ) ( 298 / Ta ) ) - b ].

IC (corrected) = I [ Sqrt ( (Pa / 760) (298 / Ta) ) ].

FLOW (corrected) = Sqrt (FLOW (mano) (Pa / 760) (298 / Ta)).

Calibrated by: Checked by: Wong Yin Tong

Name: ( Poon Tsz Wing ) Name: ( Wong Yin Tong )

Form No. INS-HVS-CAL dd 16 01 2020

## Orifice Transfer Standard Certification Worksheet TE-5025A



RECALIBRATION DUE DATE:

May 16, 2023

Certificate of Calibration

	Calibration Certification Informati	on	
Cal. Date: May 16, 2022	Rootsmeter S/N: 438320	Ta: 296	°K
Operator: Jim Tisch		Pa: 746.8	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: 0006		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4050	3.2	2.00
2	3	4	1	1.0020	6.4	4.00
3	5	6	1	0.8930	7.9	5.00
4	7	8	1	0.8550	8.7	5.50
5	9	10	1	0.7030	12.8	8.00

		Data Tabulat	ion		
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \Big( \text{Ta/Pa} \Big)}$ (y-axis)
0.9850	0.7011	1.4066	0.9957	0.7087	0.8904
0.9807	0.9788	1.9892	0.9914	0.9895	1.2592
0.9788	1.0960	2.2240	0.9894	1.1080	1.4078
0.9777	1.1435	2.3325	0.9883	1.1560	1.4765
0.9723	1.3830	2.8131	0.9829	1.3981	1.7807
	m=	2.06418		m=	1.29255
QSTD	b=	-0.03593	QA	b=	-0.02274
	r=	0.99993	-4.	r=	0.99993

	Calculation	s	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime
	For subsequent flow rate	e calculatio	ns:
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: slope	

RECAL	IRRATION	

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002 www.tisch-env.com TOLL FREE: (877)263-7610 FAX: (513)467-9009

Page 5 of 10

# 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
- + Choice of rechargeable NiMH smart battery packs or AA-cell pack

#### Model AM510 SidePak Personal Aerosol Monitor

#### Sensitivity

90° light scattering, Sensor Type 670 nm laser diode 0.001 to 20 mg/m<sup>3</sup> Aerosol Concentration Range (calibrated to respirable fraction of ISO 12103-1,

A1 test dust)

Particle Size Range 0.1 to 10 micrometer (µm) Minimum Resolution 0.001 mg/m<sup>3</sup>

Zero stability ±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)

#### Flow Rate

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

**Temperature 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

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 Range 0.1 to 10.0, user-adjustable

Physical

Weight

4.2 x 3.7 x 2.8 in. (106 x 92 x 70 mm) with 801723, 801724, 801729 or External Dimensions

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,

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. S0 to 60 Hz

Input Voltage Range Output Voltage

9 VDC @ 1.0 A

#### Maintenance

Recommended annually Factory Clean/Calibrate User Zero Calibration Before each use User Flow Calibration As needed

#### Communications Interface

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.



# Calibration Certificate of Dust Meter (TSI Sidepak AM510)



#### Cal Lab Limited 校正實驗室有限公司

Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NT, Hong Kong



Tel: +852 25680106 Email: info@callab.com.hk Fax: +852 30116194 Website: www.callab.com.hk

#### Calibration Certificate No.: CC0502208

**Customer Information** 

Customer: Castco Testing Centre Limited Address: 33, On Kui Street, Fanling, N.T.

#### Equipment Identification

Equipment Description	Manufacturer	Model No.	Serial No.	Assigned equipment No.
Aerosol Monitor	TSI	SidePak AM510	11506014	AAST-RSP-09

#### Certificate Information

Date of Receipt: Date of Calibration: Due Date of Calibration: 30 August 2022 Calibration Condition: 2 September 2022 Adjustment:

Calibration Condition: 24.1°C, 54%RH, 1001hPa Adjustment: N/A Appearance: Good Remark: N/A

Calibration Procedure: ISO 21501-4:20

N/A

 Reference Equipment Identification
 Model
 Serial No.
 Expiration Date

 Equipment Description
 8534
 8534182605
 6 September 2022

#### **Result of Calibration**

Indication

Reference Setting (mg/m³)	Measured reading (mg/m³)	Error (%)	Uncertainty (%FS)	Technical Requirement	Technical Reference Doc
0.000	0.000	N/A	14.0	N/A	Mfr's Spec.
0.101	0.106	5.0	14.0	N/A	Mfr's Spec.
0.205	0.211	3.0	14.0	N/A	Mfr's Spec.
0.307	0.317	3.3	14.0	N/A	Mfr's Spec.
	Setting (mg/m³) 0.000 0.101 0.205	Setting (mg/m³) (mg/m³) 0.000 0.000 0.101 0.106 0.205 0.211	Setting (mg/m³) (mg/m³) Error (%)  0.000 0.000 N/A  0.101 0.106 5.0  0.205 0.211 3.0	Setting (mg/m³)         (mg/m³)         Error (%)         (%FS)           0.000         0.000         N/A         14.0           0.101         0.106         5.0         14.0           0.205         0.211         3.0         14.0	Setting (mg/m³)         (mg/m³)         Error (%)         (%FS)         Requirement           0.000         0.000         N/A         14.0         N/A           0.101         0.106         5.0         14.0         N/A           0.205         0.211         3.0         14.0         N/A

Note1: The estimated expanded uncertainties have been calculated in "Evaluation and oxpression of uncertainty in measurement" and give an internal estimated to have a level of confidence of 95%. A coverage factor of 21 assumed unless explicitly stated.
Note2: The standard jo and instrument used in the calibration are traceable to an antional or international recognized standard and are calibrated on a schedule to maintain the

accuracy and good condition.

Note3: The result reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long term stability of the

instrument.

Note4: The result shows in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration item as received.

Calibrated By:

Checked and Approved By:

Company Chop:

y Chop:

au p

Certificate Issue Date: 5 September 2022

\*\*\* End of Certificate \*\*\*

1. The certificate shall not be reproduced except in full, without written approval of Cal Lab Calibration 2. The certificate is issued subject to the latest Terms and Conditions, available at our web site

CC0502208 Page 1 of 1

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

Preformance Check ref. No	AS0220624-6	Report Issue Date	24/06/2022	
Date of performance check	23/06/2022			

#### Objective:

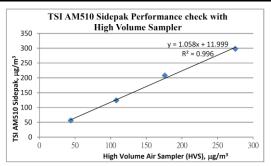
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

#### Equipment Used:

Equipment	Manufacturer and Model	Serial Number		
Personal Aerosol Monitor	TSI AM510 Sidepak	11506014		
Total Suspended Particulate High Volume Air Sampler	GS2310	10346		

#### Resustt:

Equipment	Measurement Result, μg/m <sup>3</sup>					
TSI AM510 Sidepak	56	124	208	298		
High Volume Air Sampler (HVS)	44	108	176	275		



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

#### Calibration Certificate of Dust Meter (TSI Sidepak AM510) CERTIFICATE OF CALIBRATION AND TESTING TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com Environment Conditions AM510 Model 74.7 (23.7) °F (°C) l'emperature 29 Relative Humidity Serial Number 11306015 29.31 (992.6) inHg (hPa) Barometric Pressure ⊠ As Left ☐ As Found Out of Tolerance Concentration Linearity Plot o = In Tolerance • = Out of Tolerance System ID: DTII01-02 Aerosol Concentration (mg/m3) Unit: mg/m3 CONCENTRATION ALLOWABLE RANGE ALLOWABLE RANGE MEASURED STANDARD MEASURED 0.063~0.117 1.465 1.385~1.693 1.539 10.681 10.742 0.218 0.221 0.185~0.251 TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 4:1 | System ID | Last Cal. | Cal. Due | Description | Description | Cal. Due | Description | Descriptio System ID Last Cal. Cal. Due E003319 08-30-22 02-28-23 E003511 10-26-21 10-31-22 E003315 01-11-22 01-31-23 Measurement Variable DC Voltage Microbalance E004025 06-24-22 06-30-23 DC Voltage September 27, 2022 Date

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

Preformance Check ref. No	AS0220624-3	Report Issue Date	24/06/2022
Date of performance check	23/06/2022		

#### Objective:

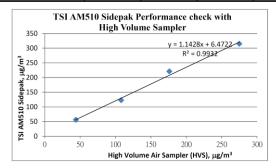
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

#### Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11306015
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

#### Resustt:

Equipment	Measurement Result, μg/m <sup>3</sup>					
TSI AM510 Sidepak	56	123	221	315		
High Volume Air Sampler (HVS)	44	108	176	275		



		03					
Tested by:		¥		Checked by :			
Name:	(	Poon Tsz Wing	)	Name:	(	Wong Yin Tong	,
Form No. ENV CAL SAM	PLER CC1 dd1	12/12/2003					

# Catalogue of Weather Station

## Cabled Vantage Pro2™ & Vantage Pro2 Plus™ Stations



6152C 6162C

Vantage Pro2™

The Vantage Pro2<sup>™</sup> (# 6152C) and Vantage Pro2<sup>™</sup> Plus (# 6162C) cabled weather stations include two components: the Integrated Sensor Suite (ISS) and the console. The ISS contains the sensor interface module (SIM), rain collector, an anemometer, and a passive radiation shield. The Vantage Pro2 console provides the user interface, data display, and calculations. The Vantage Pro2 Plus weather station includes two additional sensors that are optional on the Vantage Pro2 and purchased separately: the UV Sensor and the Solar Radiation Sensor. The console and ISS are 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® 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.

#### Integrated Sensor Suite (ISS)

Operating Temperature	-40° to +150°F (-40° to +65°C)
Non-operating Temperature	-40° to +158°F (-40° to +70°C)
	5 mA (average) at 4 to 6 VDC for ISS only. 10 mA average for both console and ISS
Connectors, Sensor	Modular RJ-11
Cable Type	4-conductor, 26 AWG
Cable Length, Anemometer	40' (12 m) (included); 240' (73 m) (maximum recommended)

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 m/s); at 240' (73 m), the maximum wind speed displayed is 100 mph (34 m/s)

Wind Speed Sensor . . . . . . . . . . . . . . . . . . Solid state magnetic sensor Wind Direction Sensor . . . . . . . . . . . . . . . . . Wind vane with potentiometer (214 cm2) collection area Temperature Sensor Type...... PN Junction Silicon Diode Relative Humidity Sensor Type . . . . . . . . . . . . Film capacitor element Sensor Inputs 

ISS Dimensions(not including anemometer or bird spikes):

Vantage Pro2 with Fan-Asprated Rad Shield........... 20.8" x 9.4" x 16.0" (528 mm x 239 mm x 406 mm) Vantage Pro2 Plus with Standard Rad Shield . . . . . . . . 14.3" x 9.7" x 14.5" (363 mm x 246 mm x 368 mm) Vantage Pro2 Plus with Fan-Aspirated Rad Shield . . . . . 21.1" x 9.7" x 16.0" (536 mm x 246 mm x 406 mm)



DAVIS [""||| \* Davis Instruments 3465 Diablo Ave., Hayward, CA 94545-2778 USA (510) 732-9229 \* FAX (510) 670-0589 \* sales@davisinstruments.com \* www.davisinstruments.com

DS6152C, 6162C Rev. W 12/7/18

Vantage Pro2

#### Ultra Violet (UV) Radiation Index (requires UV sensor)

Historical Graph Data . . . . . . . . . . . . Hourly Average, Daily, Monthly Highs Alarm High Threshold from Instant Calculation

#### Wind

#### Wind Chill (Calculated)

Source...... United States National Weather Service (NWS)/NOAA

Equation Used . . . . . . . . . . Osczevski (1995) (adopted by US NWS in 2001)

Variables Used . . . . . . . . . . . . . . . . Instant Outside Temperature and 10-min. Avg. Wind Speed

Current Display Data . . . . . . . . . . . . . . . Instant Calculation

Current Graph Data . . . . . . . . Instant Calculation; Hourly, Daily and Monthly Low

Historical Graph Data. . . . . . . . . . . . . . . . . Hourly, Daily and Monthly Lows Alarm..... Low Threshold from Instant Calculation

Wind Direction

Monthly Dominant

Monthly Dominants

Wind Speed

other units are converted from mph and rounded to nearest 1 km/hr, 0.1

m/s or 1 knot

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,

Monthly and Yearly High with Direction of High

Highs with Direction of Highs

High Thresholds from Instant Reading and 10-minute Average

## Calibration Certificate of Weather Station



#### Cal Lab Limited 校正實驗室有限公司

Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NT, Hong Kong

Tel: +852 25680106 Email: info@callab.com.hk Fax: +852 30116194 Website: www.callab.com.hk

#### Calibration Certificate No.: CC0132211 **Customer Information**

Customer: Castco Testing Centre Limited Address: 33, On Kui Street, Fanling, N.T.

**Equipment Identification** 

Equipment Description	Manufacturer	Model No.	Serial No.	Assigned equipment No.:
Weather Station	VAISALA	WXT530 Series	T0740775	N/A
Certificate Information				

Date of Receipt: 23 November 2022 Calibration Condition: 24.8°C, 46%RH, 1002hPa Date of Calibration: 29 November 2022 Adjustment: N/A Due Date of Calibration: N/A Appearance: Good JJF 1183-2007, JJF 1076-2020, N/A Calibration Procedure: Remark: SOP-116

Reference Equipment Identification

Equipment Description	Model	Serial No.	Expiration Date
Platinum resistance thermometer	KPPRHT-A-1	KCI I-1095, KCI P-1095	9 November 2024
Humidity sensor	KPPRHT-A-1	KCI I-1095, KCI P-1095	9 November 2024
Hot Wire Anemometer	9535	T95351316004	11 August 2024

Note1: The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in measurement" and give an internal estimated to have a level

Note: The exclusive displaced super-training rate obest consistent of residential and supersons or uncertainty in measurement. and per exclusive of the residential and supersons or uncertainty in measurement. The consistency of the residential and the residential an

Note4: The result shows in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration item as received.

Approved By:

Sherry Cheung



Certificate Issue Date: 29 November 2022

CT-BEG-03 CC0132211

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# Appendix G – Weather information

# General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)
01/04/2023	19.3	22.4	0.7
02/04/2023	20.5	21.6	0.7
03/04/2023	20.3	21.5	2.1
04/04/2023	20.6	25.9	4
05/04/2023	24.3	26.3	0.4
06/04/2023	20.2	28.4	5.9
07/04/2023	19.4	25.9	4.4
08/04/2023	20.2	21.8	Trace
09/04/2023	18	21.7	2.6
10/04/2023	19.9	23.3	0
11/04/2023	21.9	28.1	0
12/04/2023	22	29.2	0
13/04/2023	21.6	26.3	0
14/04/2023	22.5	28.9	0
15/04/2023	23.4	30.6	0
16/04/2023	24.1	30.8	0
17/04/2023	24	29.2	Trace
18/04/2023	24.6	29.9	Trace
19/04/2023	21.6	27.7	26.5
20/04/2023	23.2	25.1	18.2
21/04/2023	23.3	25.3	4.3
22/04/2023	22.5	23.9	0.7
23/04/2023	22.4	23.7	0.4
24/04/2023	22.9	24.3	1
25/04/2023	20.4	23.7	4.4
26/04/2023	19.4	24.8	0
27/04/2023	21.5	24.7	0.3
28/04/2023	21.8	27.6	0.9
29/04/2023	23.7	28.1	Trace
30/04/2023	22.7	27.8	0

NOTE1: The above weather information was obtained from manned weather station of Hong Kong Observatory.

NOTE2: Trace means rainfall less than 0.05 mm

 $\underline{https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2023\&m=4}$ 

Date	Time	Wind Speed (m/s)	Wind Direction												
01/04/2023	0:00	1.3	270	02/04/2023	0:00	1.8	90	03/04/2023	0:00	0.9	112.5	04/04/2023	0:00	0.9	45
01/04/2023	1:00	0.9	67.5	02/04/2023	1:00	1.8	90	03/04/2023	1:00	1.3	90	04/04/2023	1:00	0.9	45
01/04/2023	2:00	0.9	90	02/04/2023	2:00	1.8	112.5	03/04/2023	2:00	1.3	112.5	04/04/2023	2:00	0.4	67.5
01/04/2023	3:00	1.3	112.5	02/04/2023	3:00	1.8	90	03/04/2023	3:00	1.3	112.5	04/04/2023	3:00	0.4	67.5
01/04/2023	4:00	1.3	135	02/04/2023	4:00	1.3	90	03/04/2023	4:00	0	112.5	04/04/2023	4:00	0.4	67.5
01/04/2023	5:00	2.2	90	02/04/2023	5:00	1.3	112.5	03/04/2023	5:00	0	270	04/04/2023	5:00	0.4	45
01/04/2023	6:00	2.7	247.5	02/04/2023	6:00	2.2	112.5	03/04/2023	6:00	0.4	112.5	04/04/2023	6:00	0.4	45
01/04/2023	7:00	2.7	337.5	02/04/2023	7:00	1.8	135	03/04/2023	7:00	0.4	112.5	04/04/2023	7:00	0.9	67.5
01/04/2023	8:00	2.2	337.5	02/04/2023	8:00	0.9	112.5	03/04/2023	8:00	0	112.5	04/04/2023	8:00	0.9	90
01/04/2023	9:00	2.7	135	02/04/2023	9:00	0.9	112.5	03/04/2023	9:00	0.9	112.5	04/04/2023	9:00	0.4	90
01/04/2023	10:00	2.7	90	02/04/2023	10:00	0.4	90	03/04/2023	10:00	1.8	90	04/04/2023	10:00	0.4	157.5
01/04/2023	11:00	1.8	112.5	02/04/2023	11:00	0.9	112.5	03/04/2023	11:00	1.8	90	04/04/2023	11:00	0.9	112.5
01/04/2023	12:00	3.1	90	02/04/2023	12:00	0.9	112.5	03/04/2023	12:00	3.1	112.5	04/04/2023	12:00	0.4	112.5
01/04/2023	13:00	2.7	157.5	02/04/2023	13:00	0.9	90	03/04/2023	13:00	1.8	90	04/04/2023	13:00	0.4	90
01/04/2023	14:00	2.2	90	02/04/2023	14:00	0.4	90	03/04/2023	14:00	1.8	112.5	04/04/2023	14:00	0.4	112.5
01/04/2023	15:00	1.8	112.5	02/04/2023	15:00	0.4	90	03/04/2023	15:00	0.4	180	04/04/2023	15:00	0.9	135
01/04/2023	16:00	2.7	112.5	02/04/2023	16:00	0.9	112.5	03/04/2023	16:00	1.3	112.5	04/04/2023	16:00	1.3	157.5
01/04/2023	17:00	0.9	112.5	02/04/2023	17:00	0.4	67.5	03/04/2023	17:00	1.3	90	04/04/2023	17:00	1.3	112.5
01/04/2023	18:00	1.3	90	02/04/2023	18:00	0.4	90	03/04/2023	18:00	1.3	112.5	04/04/2023	18:00	1.3	112.5
01/04/2023	19:00	1.3	90	02/04/2023	19:00	1.8	337.5	03/04/2023	19:00	1.3	112.5	04/04/2023	19:00	1.3	157.5
01/04/2023	20:00	0.9	45	02/04/2023	20:00	1.8	22.5	03/04/2023	20:00	0.9	112.5	04/04/2023	20:00	1.3	135
01/04/2023	21:00	1.3	225	02/04/2023	21:00	0.9	315	03/04/2023	21:00	1.3	112.5	04/04/2023	21:00	0.4	90
01/04/2023	22:00	0.4	90	02/04/2023	22:00	0.9	112.5	03/04/2023	22:00	0.9	112.5	04/04/2023	22:00	0.4	112.5
01/04/2023	23:00	0.9	90	02/04/2023	23:00	0.9	112.5	03/04/2023	23:00	0.9	90	04/04/2023	23:00	0.4	112.5

Date	Time	Wind Speed (m/s)	Wind Direction												
05/04/2023	0:00	0.9	67.5	06/04/2023	0:00	0.9	112.5	07/04/2023	0:00	1.3	112.5	08/04/2023	0:00	0.9	112.5
05/04/2023	1:00	1.3	90	06/04/2023	1:00	0.9	112.5	07/04/2023	1:00	0.9	112.5	08/04/2023	1:00	0.9	135
05/04/2023	2:00	0.4	90	06/04/2023	2:00	0.9	157.5	07/04/2023	2:00	0.4	112.5	08/04/2023	2:00	0.9	45
05/04/2023	3:00	1.3	45	06/04/2023	3:00	1.8	135	07/04/2023	3:00	0.4	135	08/04/2023	3:00	0.9	135
05/04/2023	4:00	1.3	67.5	06/04/2023	4:00	1.8	90	07/04/2023	4:00	0.9	112.5	08/04/2023	4:00	0.9	135
05/04/2023	5:00	0.9	67.5	06/04/2023	5:00	1.8	112.5	07/04/2023	5:00	1.3	112.5	08/04/2023	5:00	0.9	22.5
05/04/2023	6:00	1.3	45	06/04/2023	6:00	2.2	90	07/04/2023	6:00	1.3	112.5	08/04/2023	6:00	1.3	67.5
05/04/2023	7:00	1.3	45	06/04/2023	7:00	1.8	112.5	07/04/2023	7:00	0.9	337.5	08/04/2023	7:00	1.3	112.5
05/04/2023	8:00	1.3	45	06/04/2023	8:00	1.8	67.5	07/04/2023	8:00	0.4	67.5	08/04/2023	8:00	1.3	135
05/04/2023	9:00	0.9	247.5	06/04/2023	9:00	1.3	270	07/04/2023	9:00	0.4	112.5	08/04/2023	9:00	1.3	315
05/04/2023	10:00	0.9	247.5	06/04/2023	10:00	1.3	135	07/04/2023	10:00	0.9	112.5	08/04/2023	10:00	0.9	135
05/04/2023	11:00	0.9	247.5	06/04/2023	11:00	1.3	157.5	07/04/2023	11:00	1.3	112.5	08/04/2023	11:00	0.4	90
05/04/2023	12:00	0.4	247.5	06/04/2023	12:00	0.4	112.5	07/04/2023	12:00	1.3	90	08/04/2023	12:00	0.9	67.5
05/04/2023	13:00	0.4	90	06/04/2023	13:00	0.9	112.5	07/04/2023	13:00	1.3	112.5	08/04/2023	13:00	0.9	112.5
05/04/2023	14:00	0.4	112.5	06/04/2023	14:00	0.9	112.5	07/04/2023	14:00	1.3	112.5	08/04/2023	14:00	0.9	45
05/04/2023	15:00	1.3	90	06/04/2023	15:00	0.4	112.5	07/04/2023	15:00	1.3	112.5	08/04/2023	15:00	0.9	90
05/04/2023	16:00	1.8	112.5	06/04/2023	16:00	0.9	112.5	07/04/2023	16:00	0.9	90	08/04/2023	16:00	0.9	90
05/04/2023	17:00	0.9	112.5	06/04/2023	17:00	0.9	90	07/04/2023	17:00	0.9	112.5	08/04/2023	17:00	1.3	90
05/04/2023	18:00	0.9	112.5	06/04/2023	18:00	0.9	112.5	07/04/2023	18:00	0.9	90	08/04/2023	18:00	1.3	112.5
05/04/2023	19:00	1.3	112.5	06/04/2023	19:00	0.9	135	07/04/2023	19:00	0.4	90	08/04/2023	19:00	1.3	112.5
05/04/2023	20:00	1.3	112.5	06/04/2023	20:00	0.9	90	07/04/2023	20:00	0.4	112.5	08/04/2023	20:00	0.9	112.5
05/04/2023	21:00	1.3	112.5	06/04/2023	21:00	0.9	112.5	07/04/2023	21:00	0.4	112.5	08/04/2023	21:00	0.9	90
05/04/2023	22:00	0.4	112.5	06/04/2023	22:00	0.9	112.5	07/04/2023	22:00	0.9	112.5	08/04/2023	22:00	1.3	112.5
05/04/2023	23:00	0	67.5	06/04/2023	23:00	0.4	112.5	07/04/2023	23:00	0.9	112.5	08/04/2023	23:00	1.3	112.5

Date	Time	Wind Speed (m/s)	Wind Direction												
09/04/2023	0:00	1.3	112.5	10/04/2023	0:00	0.4	67.5	11/04/2023	0:00	1.3	90	12/04/2023	0:00	0.9	90
09/04/2023	1:00	1.8	112.5	10/04/2023	1:00	0.9	90	11/04/2023	1:00	1.3	112.5	12/04/2023	1:00	0.9	112.5
09/04/2023	2:00	1.8	135	10/04/2023	2:00	0.9	337.5	11/04/2023	2:00	0.9	135	12/04/2023	2:00	0.4	112.5
09/04/2023	3:00	1.3	112.5	10/04/2023	3:00	1.8	22.5	11/04/2023	3:00	0.9	112.5	12/04/2023	3:00	0.4	112.5
09/04/2023	4:00	0.9	112.5	10/04/2023	4:00	1.3	315	11/04/2023	4:00	0.9	90	12/04/2023	4:00	0.9	112.5
09/04/2023	5:00	1.8	112.5	10/04/2023	5:00	0.9	112.5	11/04/2023	5:00	1.8	112.5	12/04/2023	5:00	0.9	112.5
09/04/2023	6:00	2.2	135	10/04/2023	6:00	0.9	112.5	11/04/2023	6:00	1.3	90	12/04/2023	6:00	0.9	112.5
09/04/2023	7:00	2.2	135	10/04/2023	7:00	0.9	112.5	11/04/2023	7:00	1.3	112.5	12/04/2023	7:00	1.3	112.5
09/04/2023	8:00	1.8	135	10/04/2023	8:00	0.9	90	11/04/2023	8:00	1.3	135	12/04/2023	8:00	1.3	112.5
09/04/2023	9:00	1.8	135	10/04/2023	9:00	0.9	180	11/04/2023	9:00	1.3	90	12/04/2023	9:00	0.4	135
09/04/2023	10:00	1.8	112.5	10/04/2023	10:00	0.9	67.5	11/04/2023	10:00	1.3	90	12/04/2023	10:00	0.9	135
09/04/2023	11:00	1.8	112.5	10/04/2023	11:00	0.9	45	11/04/2023	11:00	0.9	90	12/04/2023	11:00	0.9	90
09/04/2023	12:00	1.8	112.5	10/04/2023	12:00	0.9	90	11/04/2023	12:00	1.3	112.5	12/04/2023	12:00	0.9	135
09/04/2023	13:00	1.3	112.5	10/04/2023	13:00	0.4	90	11/04/2023	13:00	1.3	112.5	12/04/2023	13:00	0.9	112.5
09/04/2023	14:00	1.3	112.5	10/04/2023	14:00	0.4	45	11/04/2023	14:00	0.9	90	12/04/2023	14:00	0.4	112.5
09/04/2023	15:00	0.9	112.5	10/04/2023	15:00	0.9	45	11/04/2023	15:00	1.3	112.5	12/04/2023	15:00	0.4	112.5
09/04/2023	16:00	0.9	112.5	10/04/2023	16:00	0.9	45	11/04/2023	16:00	1.3	135	12/04/2023	16:00	0.9	90
09/04/2023	17:00	0.4	135	10/04/2023	17:00	0.4	90	11/04/2023	17:00	1.3	112.5	12/04/2023	17:00	0.4	112.5
09/04/2023	18:00	0.9	135	10/04/2023	18:00	0.4	337.5	11/04/2023	18:00	1.3	90	12/04/2023	18:00	0.4	112.5
09/04/2023	19:00	0.9	135	10/04/2023	19:00	0.9	67.5	11/04/2023	19:00	1.3	135	12/04/2023	19:00	0.4	112.5
09/04/2023	20:00	0.4	135	10/04/2023	20:00	0.4	337.5	11/04/2023	20:00	1.8	90	12/04/2023	20:00	0.4	90
09/04/2023	21:00	0.4	112.5	10/04/2023	21:00	0.4	112.5	11/04/2023	21:00	1.8	180	12/04/2023	21:00	0.9	90
09/04/2023	22:00	0.9	112.5	10/04/2023	22:00	0.9	22.5	11/04/2023	22:00	1.8	180	12/04/2023	22:00	0.9	90
09/04/2023	23:00	1.3	112.5	10/04/2023	23:00	0.9	247.5	11/04/2023	23:00	1.3	112.5	12/04/2023	23:00	0.9	112.5

Date	Time	Wind Speed (m/s)	Wind Direction												
13/04/2023	0:00	1.3	135	14/04/2023	0:00	0.9	135	15/04/2023	0:00	0.4	135	16/04/2023	0:00	1.8	157.5
13/04/2023	1:00	1.3	112.5	14/04/2023	1:00	0.9	157.5	15/04/2023	1:00	0.4	135	16/04/2023	1:00	1.3	112.5
13/04/2023	2:00	0.9	112.5	14/04/2023	2:00	0.9	90	15/04/2023	2:00	1.3	112.5	16/04/2023	2:00	1.8	225
13/04/2023	3:00	0.9	90	14/04/2023	3:00	0.9	135	15/04/2023	3:00	0.4	135	16/04/2023	3:00	1.3	112.5
13/04/2023	4:00	0.9	112.5	14/04/2023	4:00	0.9	270	15/04/2023	4:00	0.4	112.5	16/04/2023	4:00	1.8	112.5
13/04/2023	5:00	0.4	112.5	14/04/2023	5:00	0.9	225	15/04/2023	5:00	0.4	90	16/04/2023	5:00	1.8	135
13/04/2023	6:00	0.4	112.5	14/04/2023	6:00	1.3	135	15/04/2023	6:00	0.4	112.5	16/04/2023	6:00	2.2	112.5
13/04/2023	7:00	0.4	112.5	14/04/2023	7:00	1.3	112.5	15/04/2023	7:00	1.3	112.5	16/04/2023	7:00	2.2	67.5
13/04/2023	8:00	0.4	135	14/04/2023	8:00	0.9	112.5	15/04/2023	8:00	0.9	90	16/04/2023	8:00	2.2	90
13/04/2023	9:00	0.9	112.5	14/04/2023	9:00	0.9	90	15/04/2023	9:00	0.9	247.5	16/04/2023	9:00	1.8	337.5
13/04/2023	10:00	0.4	112.5	14/04/2023	10:00	0.9	112.5	15/04/2023	10:00	0.9	247.5	16/04/2023	10:00	1.8	22.5
13/04/2023	11:00	1.3	112.5	14/04/2023	11:00	0.4	112.5	15/04/2023	11:00	0.4	247.5	16/04/2023	11:00	1.3	315
13/04/2023	12:00	1.3	90	14/04/2023	12:00	0.4	112.5	15/04/2023	12:00	1.3	247.5	16/04/2023	12:00	1.3	112.5
13/04/2023	13:00	1.3	22.5	14/04/2023	13:00	0.4	112.5	15/04/2023	13:00	0.4	247.5	16/04/2023	13:00	1.3	112.5
13/04/2023	14:00	0.9	315	14/04/2023	14:00	0.4	135	15/04/2023	14:00	0.4	247.5	16/04/2023	14:00	0.9	112.5
13/04/2023	15:00	1.3	315	14/04/2023	15:00	0.9	112.5	15/04/2023	15:00	0.4	247.5	16/04/2023	15:00	0.9	90
13/04/2023	16:00	1.3	112.5	14/04/2023	16:00	0.4	112.5	15/04/2023	16:00	0.4	225	16/04/2023	16:00	0.9	135
13/04/2023	17:00	1.3	112.5	14/04/2023	17:00	1.3	112.5	15/04/2023	17:00	0.4	202.5	16/04/2023	17:00	1.3	112.5
13/04/2023	18:00	0.9	112.5	14/04/2023	18:00	1.3	90	15/04/2023	18:00	0.4	180	16/04/2023	18:00	0.9	157.5
13/04/2023	19:00	0.4	67.5	14/04/2023	19:00	1.3	22.5	15/04/2023	19:00	0.4	225	16/04/2023	19:00	1.8	112.5
13/04/2023	20:00	1.3	247.5	14/04/2023	20:00	0.9	315	15/04/2023	20:00	0.4	202.5	16/04/2023	20:00	2.2	90
13/04/2023	21:00	1.3	22.5	14/04/2023	21:00	1.3	315	15/04/2023	21:00	0.4	157.5	16/04/2023	21:00	0.4	112.5
13/04/2023	22:00	0.4	90	14/04/2023	22:00	1.3	112.5	15/04/2023	22:00	0.4	225	16/04/2023	22:00	0.4	135
13/04/2023	23:00	0.4	45	14/04/2023	23:00	1.3	112.5	15/04/2023	23:00	0.4	135	16/04/2023	23:00	1.3	45

Date	Time	Wind Speed (m/s)	Wind Direction												
17/04/2023	0:00	1.3	45	18/04/2023	0:00	0.4	135	19/04/2023	0:00	0.9	247.5	20/04/2023	0:00	1.8	112.5
17/04/2023	1:00	1.3	67.5	18/04/2023	1:00	0.9	135	19/04/2023	1:00	0.9	225	20/04/2023	1:00	1.8	112.5
17/04/2023	2:00	1.3	112.5	18/04/2023	2:00	0.9	112.5	19/04/2023	2:00	0.9	225	20/04/2023	2:00	2.2	112.5
17/04/2023	3:00	1.3	112.5	18/04/2023	3:00	0.4	135	19/04/2023	3:00	1.3	292.5	20/04/2023	3:00	1.8	135
17/04/2023	4:00	1.3	112.5	18/04/2023	4:00	0.4	90	19/04/2023	4:00	1.8	270	20/04/2023	4:00	1.8	112.5
17/04/2023	5:00	1.8	112.5	18/04/2023	5:00	0.4	112.5	19/04/2023	5:00	1.3	112.5	20/04/2023	5:00	1.8	90
17/04/2023	6:00	2.2	112.5	18/04/2023	6:00	0.4	135	19/04/2023	6:00	1.3	135	20/04/2023	6:00	1.8	112.5
17/04/2023	7:00	1.8	135	18/04/2023	7:00	0.4	135	19/04/2023	7:00	1.3	135	20/04/2023	7:00	2.2	112.5
17/04/2023	8:00	2.2	90	18/04/2023	8:00	0.4	135	19/04/2023	8:00	1.3	135	20/04/2023	8:00	2.2	112.5
17/04/2023	9:00	1.8	112.5	18/04/2023	9:00	0.9	112.5	19/04/2023	9:00	1.8	157.5	20/04/2023	9:00	1.8	112.5
17/04/2023	10:00	1.8	135	18/04/2023	10:00	0.4	135	19/04/2023	10:00	1.3	135	20/04/2023	10:00	1.8	90
17/04/2023	11:00	1.8	90	18/04/2023	11:00	0.9	135	19/04/2023	11:00	1.3	135	20/04/2023	11:00	2.2	112.5
17/04/2023	12:00	1.3	67.5	18/04/2023	12:00	0.4	112.5	19/04/2023	12:00	1.3	135	20/04/2023	12:00	2.7	112.5
17/04/2023	13:00	0.9	112.5	18/04/2023	13:00	0.4	112.5	19/04/2023	13:00	1.8	135	20/04/2023	13:00	2.7	157.5
17/04/2023	14:00	0.9	90	18/04/2023	14:00	0.4	247.5	19/04/2023	14:00	1.8	112.5	20/04/2023	14:00	1.8	135
17/04/2023	15:00	1.3	135	18/04/2023	15:00	0.9	292.5	19/04/2023	15:00	1.3	247.5	20/04/2023	15:00	2.7	112.5
17/04/2023	16:00	0.9	112.5	18/04/2023	16:00	0.4	247.5	19/04/2023	16:00	1.3	270	20/04/2023	16:00	2.2	135
17/04/2023	17:00	0.9	135	18/04/2023	17:00	0.9	270	19/04/2023	17:00	1.3	247.5	20/04/2023	17:00	2.2	112.5
17/04/2023	18:00	0.9	247.5	18/04/2023	18:00	0.9	247.5	19/04/2023	18:00	1.3	270	20/04/2023	18:00	2.2	112.5
17/04/2023	19:00	0.9	337.5	18/04/2023	19:00	0.9	292.5	19/04/2023	19:00	2.2	157.5	20/04/2023	19:00	1.8	90
17/04/2023	20:00	0.9	22.5	18/04/2023	20:00	0.9	135	19/04/2023	20:00	1.3	157.5	20/04/2023	20:00	1.8	135
17/04/2023	21:00	0.9	270	18/04/2023	21:00	0.4	270	19/04/2023	21:00	1.3	135	20/04/2023	21:00	2.7	112.5
17/04/2023	22:00	1.3	270	18/04/2023	22:00	0.4	247.5	19/04/2023	22:00	1.3	135	20/04/2023	22:00	2.7	292.5
17/04/2023	23:00	0.9	247.5	18/04/2023	23:00	1.3	135	19/04/2023	23:00	0.9	135	20/04/2023	23:00	1.8	292.5

Date	Time	Wind Speed (m/s)	Wind Direction												
21/04/2023	0:00	1.8	225	22/04/2023	0:00	0.9	247.5	23/04/2023	0:00	1.3	112.5	24/04/2023	0:00	1.8	90
21/04/2023	1:00	1.8	225	22/04/2023	1:00	0.9	247.5	23/04/2023	1:00	0.9	112.5	24/04/2023	1:00	0.9	90
21/04/2023	2:00	0.9	247.5	22/04/2023	2:00	0.9	292.5	23/04/2023	2:00	0.9	90	24/04/2023	2:00	0.9	45
21/04/2023	3:00	1.8	247.5	22/04/2023	3:00	1.3	22.5	23/04/2023	3:00	1.3	45	24/04/2023	3:00	0.4	112.5
21/04/2023	4:00	0.9	247.5	22/04/2023	4:00	0.9	270	23/04/2023	4:00	1.3	112.5	24/04/2023	4:00	1.3	90
21/04/2023	5:00	0.9	90	22/04/2023	5:00	0.9	180	23/04/2023	5:00	0.9	112.5	24/04/2023	5:00	1.3	135
21/04/2023	6:00	1.8	112.5	22/04/2023	6:00	0.9	247.5	23/04/2023	6:00	0.9	112.5	24/04/2023	6:00	1.8	90
21/04/2023	7:00	2.2	135	22/04/2023	7:00	0.9	337.5	23/04/2023	7:00	1.3	90	24/04/2023	7:00	1.3	22.5
21/04/2023	8:00	3.1	157.5	22/04/2023	8:00	0.9	22.5	23/04/2023	8:00	0.9	112.5	24/04/2023	8:00	1.3	45
21/04/2023	9:00	2.7	112.5	22/04/2023	9:00	0.9	270	23/04/2023	9:00	1.3	135	24/04/2023	9:00	0.9	247.5
21/04/2023	10:00	2.7	135	22/04/2023	10:00	1.3	270	23/04/2023	10:00	1.3	112.5	24/04/2023	10:00	1.3	90
21/04/2023	11:00	2.7	112.5	22/04/2023	11:00	0.9	247.5	23/04/2023	11:00	0.4	67.5	24/04/2023	11:00	0.9	90
21/04/2023	12:00	2.7	90	22/04/2023	12:00	1.8	225	23/04/2023	12:00	0.9	112.5	24/04/2023	12:00	0.9	90
21/04/2023	13:00	2.7	112.5	22/04/2023	13:00	1.8	225	23/04/2023	13:00	1.3	90	24/04/2023	13:00	0.9	112.5
21/04/2023	14:00	2.2	112.5	22/04/2023	14:00	0.9	247.5	23/04/2023	14:00	1.3	90	24/04/2023	14:00	0.9	90
21/04/2023	15:00	1.8	112.5	22/04/2023	15:00	1.8	247.5	23/04/2023	15:00	0.9	112.5	24/04/2023	15:00	0.9	112.5
21/04/2023	16:00	3.1	112.5	22/04/2023	16:00	0.9	247.5	23/04/2023	16:00	1.3	112.5	24/04/2023	16:00	0.9	0
21/04/2023	17:00	0.9	112.5	22/04/2023	17:00	0.9	90	23/04/2023	17:00	0.4	90	24/04/2023	17:00	0.9	90
21/04/2023	18:00	0.4	112.5	22/04/2023	18:00	0.9	90	23/04/2023	18:00	0.9	112.5	24/04/2023	18:00	0.9	292.5
21/04/2023	19:00	0.4	112.5	22/04/2023	19:00	0.9	135	23/04/2023	19:00	0.4	90	24/04/2023	19:00	0.9	112.5
21/04/2023	20:00	0.9	112.5	22/04/2023	20:00	0.4	135	23/04/2023	20:00	0.9	90	24/04/2023	20:00	1.3	90
21/04/2023	21:00	0.4	90	22/04/2023	21:00	0.4	112.5	23/04/2023	21:00	0.9	112.5	24/04/2023	21:00	1.3	90
21/04/2023	22:00	0.4	90	22/04/2023	22:00	0.4	112.5	23/04/2023	22:00	0.9	90	24/04/2023	22:00	1.3	135
21/04/2023	23:00	1.3	135	22/04/2023	23:00	0.4	112.5	23/04/2023	23:00	0.9	67.5	24/04/2023	23:00	1.3	112.5

Date	Time	Wind Speed (m/s)	Wind Direction												
25/04/2023	0:00	0.9	135	26/04/2023	0:00	0.9	112.5	27/04/2023	0:00	0.4	270	28/04/2023	0:00	0.4	112.5
25/04/2023	1:00	0.4	112.5	26/04/2023	1:00	0.9	112.5	27/04/2023	1:00	0.4	135	28/04/2023	1:00	0.4	135
25/04/2023	2:00	1.3	315	26/04/2023	2:00	0.9	112.5	27/04/2023	2:00	0.4	180	28/04/2023	2:00	0.4	157.5
25/04/2023	3:00	1.3	270	26/04/2023	3:00	1.3	90	27/04/2023	3:00	0.4	270	28/04/2023	3:00	0.4	135
25/04/2023	4:00	1.3	67.5	26/04/2023	4:00	1.3	90	27/04/2023	4:00	0.4	22.5	28/04/2023	4:00	0.4	135
25/04/2023	5:00	0.9	67.5	26/04/2023	5:00	1.3	112.5	27/04/2023	5:00	0.4	22.5	28/04/2023	5:00	0.9	112.5
25/04/2023	6:00	1.3	90	26/04/2023	6:00	1.8	112.5	27/04/2023	6:00	0.4	292.5	28/04/2023	6:00	0.9	112.5
25/04/2023	7:00	0.9	247.5	26/04/2023	7:00	2.2	135	27/04/2023	7:00	0.4	22.5	28/04/2023	7:00	0.9	157.5
25/04/2023	8:00	0.4	247.5	26/04/2023	8:00	2.2	135	27/04/2023	8:00	0.4	112.5	28/04/2023	8:00	1.3	135
25/04/2023	9:00	0.4	225	26/04/2023	9:00	1.8	90	27/04/2023	9:00	0.4	112.5	28/04/2023	9:00	1.3	112.5
25/04/2023	10:00	0.9	225	26/04/2023	10:00	2.7	45	27/04/2023	10:00	0.4	112.5	28/04/2023	10:00	1.8	112.5
25/04/2023	11:00	0.9	225	26/04/2023	11:00	1.3	112.5	27/04/2023	11:00	0.4	180	28/04/2023	11:00	0.9	90
25/04/2023	12:00	0.9	247.5	26/04/2023	12:00	0.9	135	27/04/2023	12:00	0.4	112.5	28/04/2023	12:00	0.9	135
25/04/2023	13:00	0.9	180	26/04/2023	13:00	0.4	112.5	27/04/2023	13:00	0.4	270	28/04/2023	13:00	0.9	135
25/04/2023	14:00	0.9	270	26/04/2023	14:00	0.9	112.5	27/04/2023	14:00	0.4	157.5	28/04/2023	14:00	0.9	112.5
25/04/2023	15:00	0.9	270	26/04/2023	15:00	0.9	135	27/04/2023	15:00	0.4	270	28/04/2023	15:00	1.3	135
25/04/2023	16:00	0.4	247.5	26/04/2023	16:00	2.2	45	27/04/2023	16:00	0.4	270	28/04/2023	16:00	1.3	112.5
25/04/2023	17:00	0.4	247.5	26/04/2023	17:00	1.3	112.5	27/04/2023	17:00	0.4	270	28/04/2023	17:00	1.3	112.5
25/04/2023	18:00	0.4	270	26/04/2023	18:00	1.3	90	27/04/2023	18:00	0.9	247.5	28/04/2023	18:00	1.3	45
25/04/2023	19:00	0.4	247.5	26/04/2023	19:00	0.9	112.5	27/04/2023	19:00	0.9	247.5	28/04/2023	19:00	1.3	337.5
25/04/2023	20:00	0.4	247.5	26/04/2023	20:00	1.3	112.5	27/04/2023	20:00	0.9	270	28/04/2023	20:00	1.3	337.5
25/04/2023	21:00	1.3	67.5	26/04/2023	21:00	0.9	135	27/04/2023	21:00	0.9	270	28/04/2023	21:00	1.8	337.5
25/04/2023	22:00	1.3	112.5	26/04/2023	22:00	1.3	112.5	27/04/2023	22:00	0.9	225	28/04/2023	22:00	1.8	337.5
25/04/2023	23:00	1.3	22.5	26/04/2023	23:00	1.3	112.5	27/04/2023	23:00	0.4	225	28/04/2023	23:00	1.8	315

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
29/04/2023	0:00	0.9	135	30/04/2023	0:00	0.4	112.5								
29/04/2023	1:00	0.9	112.5	30/04/2023	1:00	0.4	90								
29/04/2023	2:00	0.9	135	30/04/2023	2:00	0.4	90								
29/04/2023	3:00	0.9	112.5	30/04/2023	3:00	0.4	135								
29/04/2023	4:00	0.9	135	30/04/2023	4:00	0.9	67.5								
29/04/2023	5:00	0.9	112.5	30/04/2023	5:00	1.3	225								
29/04/2023	6:00	0.4	135	30/04/2023	6:00	0.9	247.5								
29/04/2023	7:00	0.9	135	30/04/2023	7:00	0.9	292.5								
29/04/2023	8:00	0.9	157.5	30/04/2023	8:00	0.4	247.5								
29/04/2023	9:00	0.9	135	30/04/2023	9:00	0.9	225								
29/04/2023	10:00	0.9	112.5	30/04/2023	10:00	1.3	247.5								
29/04/2023	11:00	0.9	135	30/04/2023	11:00	0.9	225								
29/04/2023	12:00	0.9	135	30/04/2023	12:00	0.9	270								
29/04/2023	13:00	0.9	112.5	30/04/2023	13:00	0.9	270								
29/04/2023	14:00	0.9	135	30/04/2023	14:00	1.8	45								
29/04/2023	15:00	0.9	135	30/04/2023	15:00	1.3	22.5								
29/04/2023	16:00	1.3	112.5	30/04/2023	16:00	0.9	157.5								
29/04/2023	17:00	1.8	112.5	30/04/2023	17:00	0.9	157.5								
29/04/2023	18:00	1.3	112.5	30/04/2023	18:00	0.4	135								
29/04/2023	19:00	1.3	112.5	30/04/2023	19:00	0.4	112.5								
29/04/2023	20:00	0.9	112.5	30/04/2023	20:00	1.3	112.5								
29/04/2023	21:00	0.9	112.5	30/04/2023	21:00	0.4	90								
29/04/2023	22:00	0.9	135	30/04/2023	22:00	1.3	90								
29/04/2023	23:00	0.9	112.5	30/04/2023	23:00	1.3	90								

Appendix H-24-hr TSP monitoring results and graphical presentation

Location: AM3 – Sky Tower

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m³/min)	$(m^3)$	$(\mu g/m^3)$
01/04/2023	Sunny	22.4	1012.7	18.2812	18.4205	0.1393	2023/4/1 9:28	2023/4/2 9:28	1440	46	46	1.27	1833	76
06/04/2023	Sunny	27.8	1011	14.8261	14.9061	0.0800	2023/4/6 13:26	2023/4/7 13:26	1440	46	46	1.26	1815	44
12/04/2023	Sunny	27.5	1012.3	15.1076	15.3045	0.1969	2023/4/12 9:16	2023/4/13 9:16	1440	44	44	1.21	1736	113
18/04/2023	Sunny	28.1	1010.1	18.2729	18.3705	0.0976	2023/4/18 9:24	2023/4/19 9:24	1440	46	46	1.26	1813	54
24/04/2023	Cloudy	23.6	1014.2	18.0684	18.1604	0.0920	2023/4/24 13:26	2023/4/25 13:26	1440	44	44	1.22	1757	52
29/04/2023	Sunny	27.5	1011.6	18.1027	18.2312	0.1285	2023/4/29 13:30	2023/4/30 13:30	1440	46	46	1.27	1824	70

Maximum113Minimum44Average68Action Level182Limit Level260

Location: AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A) ET will resume the impact monitoring once the alternative monitoring location for AM4(A) is confirmed.

# Location: AM7 – Hong Kong Children's Hospital

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m³/min)	$(m^3)$	$(\mu g/m^3)$
01/04/2023	Sunny	22.4	1012.7	14.8119	14.9167	0.1048	10415.87	10439.89	1441	50	50	1.38	1996	53
06/04/2023	Sunny	27.8	1011	15.8257	15.9333	0.1076	10440.19	10464.21	1441	48	48	1.31	1895	57
12/04/2023	Sunny	27.5	1012.3	14.7431	14.9077	0.1646	10464.67	10488.69	1441	48	48	1.32	1897	87
18/04/2023	Sunny	28.1	1010.1	15.5368	15.6509	0.1141	10489.17	10513.19	1441	48	48	1.31	1893	60
24/04/2023	Cloudy	23.6	1014.2	15.8103	15.9252	0.1149	10513.43	10537.45	1441	48	48	1.35	1945	59
29/04/2023	Sunny	27.5	1011.6	15.5563	15.7034	0.1471	10537.89	10561.91	1441	48	48	1.34	1930	76
												Maxim	ıum	87
												Minim	um	53
												Avera	ge	65

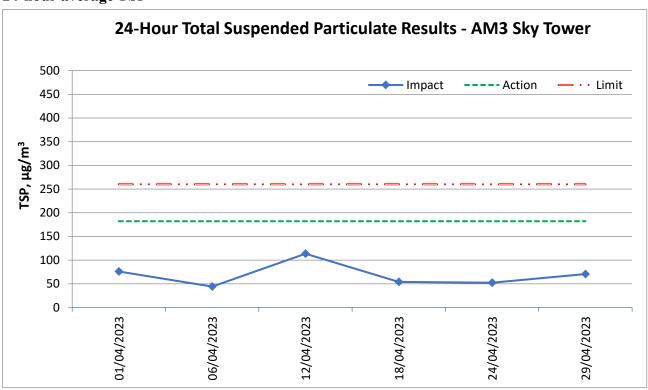
Action Level

Limit Level

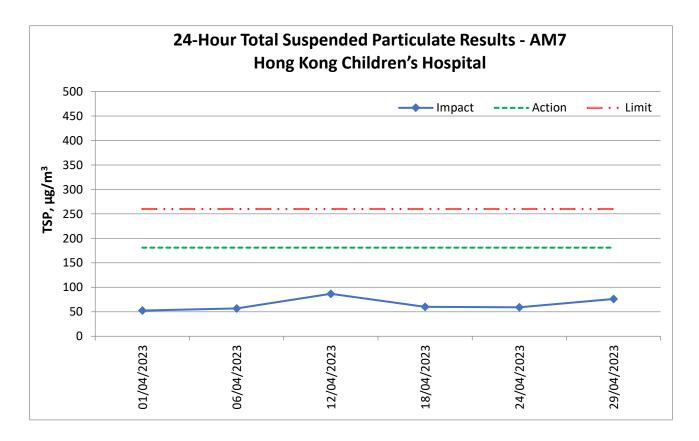
181

260

# 24-hour average TSP



Note: Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A). ET will resume the impact monitoring once the alternative monitoring location for AM4(A) is confirmed.



Appendix 1 – 1-hr 1SP monitoring results and graphical presentation

Location:
AM3 Sky Tower

Date	Measure	me	nt Period	1-hr TSP concentration, μg/m <sup>3</sup>	Weather
	9:00	-	10:00	69	
01/04/2023	10:00	-	11:00	72	Sunny
Ì	11:00	-	12:00	72	
	13:00	-	14:00	34	
06/04/2023	14:00	-	15:00	38	Sunny
	15:00	-	16:00	37	
	9:00	-	10:00	103	
12/04/2023	10:00	-	11:00	106	Sunny
	11:00	-	12:00	111	
	9:00	-	10:00	46	
18/04/2023	10:00	-	11:00	47	Sunny
	11:00	-	12:00	50	
	13:00	-	14:00	44	
24/04/2023	14:00	-	15:00	43	Cloudy
	15:00	-	16:00	47	
ļ	13:00	-	14:00	39	
29/04/2023	14:00	-	15:00	42	Sunny
	15:00	-	16:00	46	
	Maximum			111	
1	Minimum			34	
	Average			58	
	ction Leve			297	
L	imit Leve	1		500	

Location:
AM4(A) The Hong Kong
Society for the
Blind's Factory
cum Sheltered
Workshop

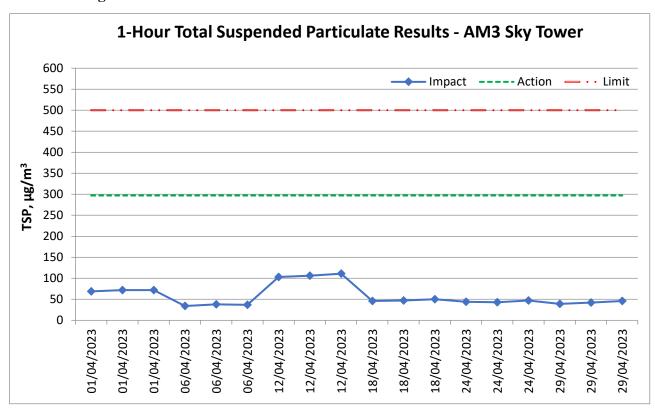
Date	Measure	mei	nt Period	1-hr TSP concentration, μg/m <sup>3</sup>	Weather
	9:00	-	10:00	67	
01/04/2023	10:00	-	11:00	70	Sunny
	11:00	-	12:00	75	
	13:00	-	14:00	43	
06/04/2023	14:00	-	15:00	44	Sunny
	15:00	-	16:00	49	
	9:00	-	10:00	112	
12/04/2023	10:00	-	11:00	114	Sunny
	11:00	-	12:00	118	
	13:00	-	14:00	55	
18/04/2023	14:00	-	15:00	61	Sunny
	15:00	-	16:00	61	
	9:30	1	10:30	56	
24/04/2023	10:30	-	11:30	56	Cloudy
	16:25	1	17:25	60	
	13:00	-	14:00	53	
29/04/2023	14:00	1	15:00	59	Sunny
	15:00	-	16:00	58	
N	Maximum			118	
	Minimum			43	
	Average			67	
Ad	ction Leve	el		326	
L	imit Leve	1		500	

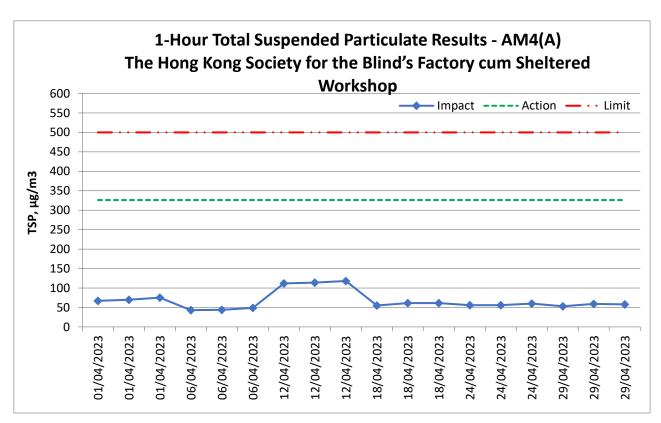
NOTE: Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since1 Sept 2022. 1-hr TSP monitoring at AM4(A) were conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for AM4(A) is confirmed.

Location:
AM7 Hong Kong
Children's
Hospital

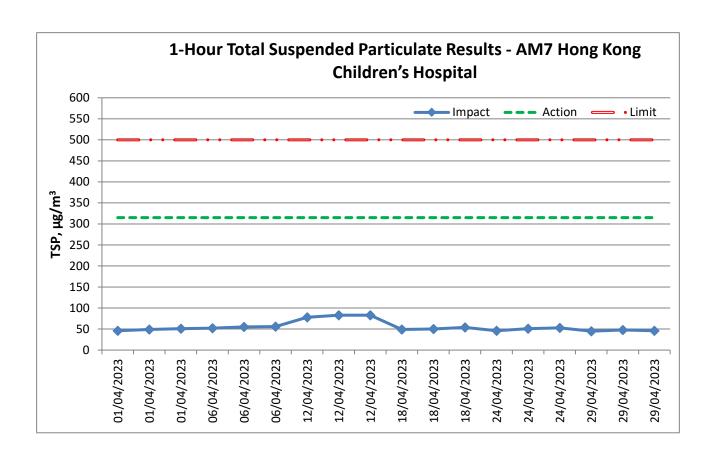
Date	Measurement Period		nt Period	1-hr TSP concentration, μg/m <sup>3</sup>	Weather	
	13:00	-	14:00	46		
01/04/2023	14:00	-	15:00	49	Sunny	
	15:00	-	16:00	51	•	
	9:00	-	10:00	52		
06/04/2023	10:00	-	11:00	55	Sunny	
	11:00	1	12:00	56		
	13:00	-	14:00	78		
12/04/2023	14:00	1	15:00	83	Sunny	
	15:00	-	16:00	83		
	9:00	-	10:00	49	Sunny	
18/04/2023	10:00	1	11:00	50		
	11:00	-	12:00	54		
	13:00	-	14:00	46		
24/04/2023	14:00	-	15:00	51	Cloudy	
	15:00	1	16:00	53		
	9:00	-	10:00	45		
29/04/2023	10:00	-	11:00	48	Sunny	
	11:00	-	12:00	46		
Maximum				83		
Minimum				45		
Average				55		
Action Level				315		
L	imit Leve	1		500		

# 1-hour average TSP





NOTE: Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since1 Sept 2022. 1-hr TSP monitoring at AM4(A) were conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for AM4(A) is confirmed.



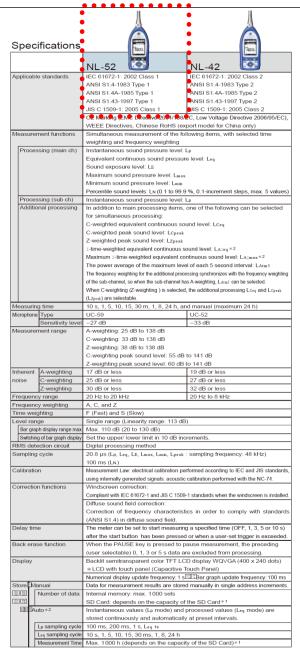
# Appendix J – Event and Action Plan for air quality

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

F 4	Action					
Event	ET	IEC	Supervisor / ER	Contractor		
	Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results.	on the effectiveness of the proposed remedial measures.	<ul> <li>implemented;</li> <li>Supervise implementation of remedial measures;</li> <li>Conduct meeting with ET and IEC if exceedance continues.</li> </ul>	within three working days of notification; 4. Implement the agreed proposals.		
Limit Level being exceeded by two or more consecutive sampling	<ol> <li>Notify IEC, Supervisor /ER, Contractor and EPD;</li> <li>Repeat measurement to confirm findings;</li> <li>Carry out analysis of Contractor's working procedures to identify source and investigate the causes of exceedance;</li> <li>Increase monitoring frequency to daily;</li> <li>Arrange meeting with IEC, Supervisor /ER and Contractor to discuss the remedial action to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results;</li> <li>If exceedance stop, cease additional monitoring.</li> </ol>	submitted by ET;  2. Check Contractor's working method;  3. Discuss with Supervisor /ER, ET, and Contractor on the potential remedial actions;  4. Review Contractor's remedial actions whenever necessary to assure their	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise implementation of remedial measures;</li> <li>If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.</li> </ol>	<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>		

 $\label{eq:continuous} \begin{tabular}{ll} Appendix $K-$ Calibration certificates, catalogue of noise monitoring \\ equipment \end{tabular}$ 

## Catalogue of Sound Level Meter



Data r	ecall	Allows viewing of stored data		
Setup	memory	Up to five setup configurations can be saved in internal memory, for later recall		
,		Start up via file settings previously stored on SD card possible		
Waveform recording *3		otart up via me settings previously stored on ob eard possible		
_	offin recording	Uncompressed waveform WAVE file		
	mpling frequency	Select 48 kHz, 24 kHz or 12 kHz		
	ta length	Select 24 bit or 16 bit		
		Output DC signals using a frequency weighting characteristic selected by processing		
Outputs DC output				
	Output voltage	2.5 V, 25 mV / dB at bar graph display full scale		
	AC output	Output AC signals using a frequency weighting characteristic selected by		
		processing or by A, C, Z-weighting.		
	Output voltage	1 V (rms values) at bar graph display full scale		
	Comparator	Turns on when the open-collector output exceeds the set value		
	output*2	(max. applied voltage 24 V, max. current 60 mA, allowable dissipation 300 mW).		
USBŒ		Allows USB to be connected to a computer and recognized as a removable disl		
50 20 20	2	Allows USB to be controlled via communication commands		
RS-23	32C communication	Allows for RS-232C communication via use of a dedicated cable		
Data c	continuous output*2			
Typ	oe of Instantaneous value	Lp		
data Processed value		Leq, Lmax, Lmin, Lpeak		
Output interval		100 ms		
Print c	out	Printing of measurement results on dedicated printer DPU-414		
Power	r requirements	Four IEC R6 (size AA) batteries (alkaline or rechargeable batteries) or external power supply		
Bat	ttery life (23 ℃)	Alkaline battery LR6 (AA): 26 h Ni-MH secondary battery: 25 h		
		At the maximum * Depends on the setting		
AC	adapter	NC-98C (NC-34 for previous models cannot be used)		
Ext	emal power voltage	5 to 7 V (rated voltage: 6 V)		
Cui	rrent consumption	Approximately 90 mA (normal operation, rated voltage)		
Ambie	nt Temperature	-10 to +50 °C		
conditi	Temperature.	10 to 90 % RH (non-condensing)		
Dustproof / water-resistant		IP code: IP54 (except for microphone)		
performance *4		See precautions regarding waterproofing		
Dimensions, weight		Approx. 250 (H) x 76 (W) x 33 mm(D), approx. 400 g (with batteries)		
	ied accessories	Storage case x 1, Windscreen WS-10 x 1, Windscreen fall prevention rubber x 1,		
Supplied accessories		Hand strap x 1, LR6 (AA) alkaline batteries x 4, SD card 512 MB×1 (NX-42EX		
		preinstalled model only)		
		premotation model only)		

Product name	Product number
Extended function program (Inst.on 512 MB SD card)	NX-42EX
Waveform recording program*2 (Inst.on 2 GB SD card)	NX-42WR
Octave, 1/3 octave real-time analysis program*2 (Inst.on 512 MB SD card)	NX-42RT
FFT analysis program *2 (Inst.on 512 MB SD card)	NX-42FT
Data management software for environmental measurement	AS-60
Data management software for environmental measurement (Includes the octave and 1/3 octave data management software)	AS-60RT
Data management software for environmental measurement (Includes the vibration level data management software)	AS-60VM
Waveform analysis software	CAT-WAVE
SD Card 512 MB	SD-512M
SD Card 2 GB	SD-2G
AC adapter (100 ∨ to 240 ∨)	NC-98C
Battery pack	BP-21
Microphone extension cables	EC-04 (from 2 m)
BNC-Pin output code	CC-24
Comparator output cable	CC-42C
Printer	DPU-414
Printer cable	CC-42P
RS 232C serial I/O cable	CC-42R
USB cable	_
Sound calibrator	NC-74
All-weather windscreen	WS-15
Windscreen mounting adapter	WS-15006
Rain-protection windscreen	WS-16
Sound level meter tripod	ST-80
All-weather windscreen tripod	ST-81

\*4 Protection against harmful dust and water splashing from any direction.

Before use, verify that the rubber bottom cover and the battery compartment lid are firmly closed. To maintain the water and dust proof rating, internal packing replacement is required every two years (at



RION CO., LTD.

3-20-41, Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan Tel: +81-42-359-7888 Fax: +81-42-359-7442

This product is environment-friendly. It does not include toxic chemicals on our policy.

This product is certified to an International Protection rating of IP54 (dust protected and resistant to splashing water).
This leaffet is printed with environmentally friendly vegetable-based ink on recycled paper.

1011-4 E 212.P.D

## Calibration Certificate of Sound Level Meter



中国赛宝实验室计量检测中心 (工业和信息化部电子第五研究所计量检测中心) CHINA CEPREI LABORATORY CALIBRATION & TESTING CENTRE

# CALIBRATION CERTIFICATE

证书编号: 2HB22001076-0004 Certificate No.



委托单位: _	Ca	stco Testing Centre Limi	ted		
Client 义器名称: Description	Sound Level Meter				
型号规格:		NL-52			
Model/Type 制造商: _ Manufacturer		RION			
乳身号: Serial No.	01287681				
管理号: Asset No.		AAST-SLM-12			
接收日期:  Rec. Date	2022-07-21	校准日期: Cal. Date	2022-08-03		
签发日期: App. Date	2022-08-04	建议校准周期: Reference Cal. Peri	12个月(12 months) od		
吉论: _	所校准项	目合格(Passed at Calibra	tion Items)		

Calibrated by 並文红

Inspected by 印章:

Stamp

Website: www.ceprei-cal.com

Approved by

寨宝计量检测中心 广州总部地址:广州市增城区朱村街朱村大道西78号 客服电话: 020-87237633 传真: 020-87236189 投诉电话: 020-87236896 邮件: cal@ceprei.com 网址: www.ceprei-cal.com

CEPREI Calibration and Testing Centre HQ Addr: No.78, Zhucun Avenue West, Zengcheng District, Guangzhou, China Service Tel: 020-87237633 Fax: 020-87236189 Complaint Tel: 020-87236896 Email: cal@ceprei.com

> 第1页,共8页 Page of

# DIRECTIONS

1. 本机构质量管理体系符合ISO/IEC 17025:2017标准的要求,获得中国合格评定国家认可委员会( CNAS) 认可,认可证书号为: CNAS L13344。

This laboratory quality management system meets the ISO/IEC 17025:2017 and is accredited by the China National Accreditation Service for Conformity Assessment, No. CNAS L13344.

2. 本次校准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes):

■ JJG 188-2017 声级计检定规程: Sound pressure level: (20~130)dB: Frequency Weighting: (20~130)dB@(10

详细内容语差看CNAS网络中往册编号为L13344的证书附件,超出范围的内容未被认可,其结果结论所依据的含格评定语动不在认可范围内。(Please see the attachment of certificate No. L13344 at CNAS website for details, beyond which is not accredited, the conformity assessment activities on which the results/conclusions are based are outside the export of accredited into).

3. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration):

名 称	证书号/有效期/溯源单位	技术指标	测量范围
(Description)	(Certificate No./Due Date/Traceability to)	(Specification)	(Measuring Range)
正弦信号发生器	4GC21000496-0024/2022-11-01/赛宝(广州)	Distortion: <-70dB	f: 0.001Hz~200kHz: 0 : 100µV~5Vrms
标准传声器	GFJGJL1001220311961/2023-03-27/航空 304所	U=(0.05-0.20)dB (k=2)	10Hz~20kHz
前置放大器	GFJGJL1001220311960/2023-03-27/航空 304所	U=0.3dB (k=2)	(10~50000) Hz
步进衰减器	4GC22000181-0032/2023-04-18/赛宝(广州)	±3dB	(0~110) dB/10dB step @(DC~1GHz)
声校准器	4GC21000572-0101/2022-12-07/赛宝(广州)	1級 First Level	31.5Hz~16kHz
PULSE分析系统	4GC22000014-0140/2023-01-15/赛宝(广州)	频率:Urei=0.001%,k=2;电压: Urei=0.04%,k=2	频率:0.001Hz~51.2kHz, 电压:(1×10 <sup>-5</sup> ~30)V
数字多用表	4GC21000526-0026/2022-11-30/賽宝(广州)	DCV: ±0.0035%; ACV: ± 0.06%; DCI: ±0.05%; ACI : ±0.1%; R: ±0.01%; f: ±0.001%	
			. 63Hz~300kHz

4. 校准地点(The calibration place): 广州市增城区朱村街朱村大道西78号9栋110室

5. 环境条件(Environmental conditions):

温度(Temperature): 23.2℃ 相对湿度(Relative Humidity): 58%

factor k which corresponding to the coverage probability about 95%

6. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度的评定与表示》评定,由合成标 准不确定度乘以包含概率约为95%时对应的包含因子k得到。 The extended uncertainty given in this certificate is evaluated according to JJF1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement", and is calculated by multiplying the combined standard uncertainty by the coverage

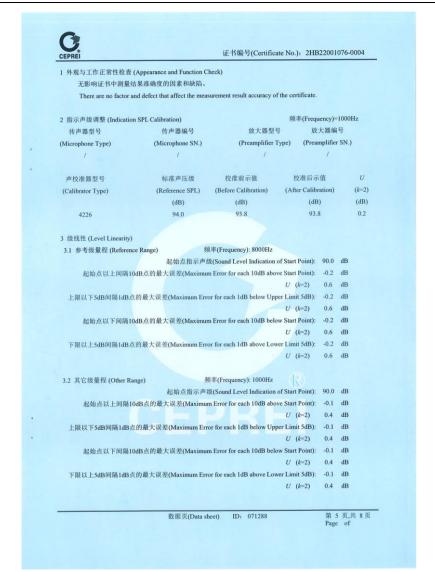
7. 证书中"P"、"合格"代表"测量结果在允许范围内","F"、"不合格"代表"测量结果不在允许范围内","N/A"代表"不适用或技术指标暂时无法确认等"。本证书报告的结论仅供参考,使用人员应结合实际测量的要求合理使用,如考虑测量结果测量不确定度的影响等。

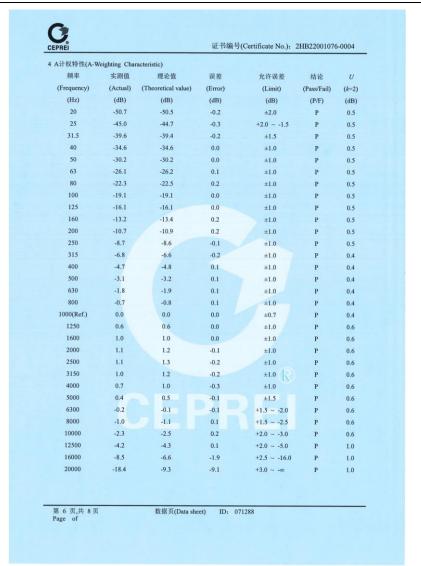
"P" and "Pass" in this certificate stand for "Low Limit≤the measured value ≤High Limit", "F" and "Fail" stand for "the measured value < Low Limit or the measured value > High Limit", "N/A" stands for "Not Applicable or The technical specification has not been confirmed etc". The conclusions of this certificate are for reference only. Users should use them reasonably according to the actual measurement requirements, such as considering the impact of measurement

8. 建议校准周期是本实验室依据本证书报告的技术依据和仪器设备常规使用条件给出的建议,供委 托方参考。委托方可以根据实际使用情况自行决定样品的校准周期。

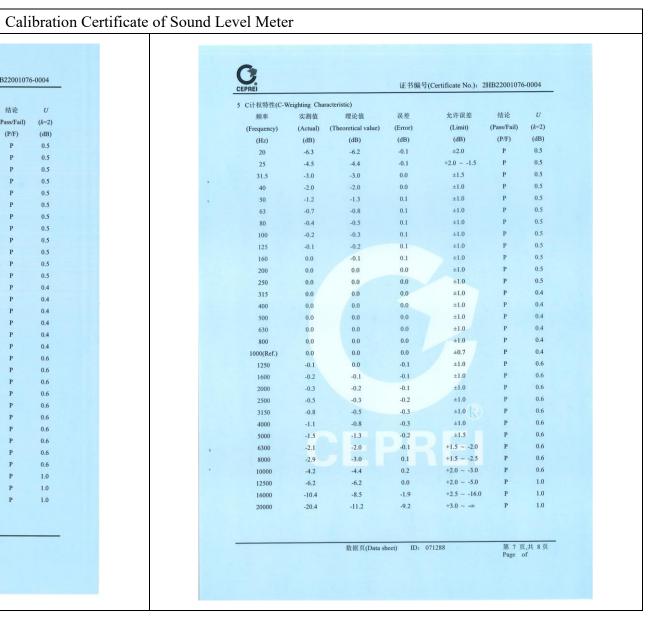
> 第 3 页,共 8 页 Page of

# Calibration Certificate of Sound Level Meter





#### 证书编号(Certificate No.): 2HB22001076-0004 4 A计权特性(A-Weighting Characteristic) 实测值 频率 误差 允许误差 结论 U(Frequency) (Actual) (Theoretical value) (Error) (Limit) (Pass/Fail) (k=2)(dB) (dB) (dB) -50.7 -50.5 -0.2 ±2.0 0.5 25 -45.0 -44.7 -0.3 +2.0 ~ -1.5 0.5 31.5 -39.6 -39.4 -0.2 ±1.5 0.5 40 -34.6 -34.6 ±1.0 0.5 -30.2 -30.2 0.0 ±1.0 0.5 63 -26.1 -26.2 0.1 ±1.0 0.5 80 -22.3 -22.5 0.2 ±1.0 0.5 100 -19.1 -19.1 0.0 ±1.0 0.5 125 -16.1 -16.1 ±1.0 0.5 160 -13.2 -13.4 0.2 ±1.0 0.5 200 -10.7 -10.9 0.2 ±1.0 0.5 250 -8.7 -8.6 -0.1 ±1.0 0.5 315 -6.8 -0.2 ±1.0 0.4 -4.7 -4.8 400 0.1 ±1.0 0.4 500 -3.1 -3.2 0.1 ±1.0 0.4 630 -1.8 -1.9 0.1 ±1.0 0.4 -0.7 800 -0.8 0.1 ±1.0 1000(Ref.) 0.0 0.0 0.0 ±0.7 0.4 1250 0.6 0.6 0.0 ±1.0 0.6 1600 1.0 1.0 0.0 ±1.0 0.6 1.1 2000 1.2 -0.1 ±1.0 0.6 2500 1.3 -0.2 ±1.0 0.6 3150 1.0 1.2 -0.2 ±1.0 0.6 4000 0.7 1.0 -0.3 ±1.0 0.6 0.4 5000 0.5 -0.1 ±1.5 0.6 -0.1 6300 -0.2 -0.1 +1.5 ~ -2.0 +1.5 ~ -2.5 8000 -1.0 -1.1 0.1 0.6 10000 -2.3 -2.5 0.2 +2.0 ~ -3.0 0.6 12500 -4.2 -4.3 0.1 +2.0 ~ -5.0 1.0 16000 -8.5 -6.6 -1.9 +2.5 ~ -16.0 1.0 -9.3 +3.0 ~ -00 1.0 第 6 页,共 8页 Page of 数据页(Data sheet) ID: 071288



### Calibration Certificate of Sound Level Meter



中国赛宝实验室计量检测中心 (工业和信息化部电子第五研究所计量检测中心) CEPREI CHINA CEPREI LABORATORY CALIBRATION & TESTING CENTRE

# CALIBRATION CERTIFICATE

证书编号: 2HB22001076-0002 Certificate No.



委托单位: _ Client	Castco Testing Centre Limited				
仪器名称: _ Description	Sound Level Meter				
型号规格: Model/Type	NL-52				
制造商: Manufacturer		RION			
机身号: Serial No.	00976203				
管理号: Asset No.	100000	AAST-SLM-10			
接收日期: _ Rec. Date	2022-07-21	校准日期: _ Cal. Date	2022-08-03		
签发日期: App. Date	2022-08-03	建议校准周期: _ Reference Cal. Perio	12个月(12 months)		
结论: Conclusion	所校准项目合格(Passed at Calibration Items)				

Calibrated by 起文红

印章:

Stamp

赛宝计量检测中心 广州总部地址:广州市增城区朱村街朱村大道西78号 客服电话: 020-87237633 传真: 020-87236189 投诉电话: 020-87236896 邮件: cal@ceprei.com

同址: www.ceprei-cal.com

CEPREI Calibration and Testing Centre HO Addr: No 78 Zhucun Avenue West Zengcheng District Guangzhou. China Service Tel: 020-87237633 Fax: 020-87236189 Complaint Tel: 020-87236896 Email: cal@ceprei.com Website: www.ceprei-cal.com

第1页,共8页 Page of

# **DIRECTIONS**

1. 本机构质量管理体系符合ISO/IEC 17025:2017标准的要求,获得中国合格评定国家认可委员会( CNAS) 认可, 认可证书号为: CNAS L13344。

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■ JJG 188-2017 声级计检定规程: Sound pressure level: (20~130)dB: Frequency Weighting: (20~130)dB@(10

11L - ZOALLA/s ・実施内容清差費CNAS阿治中注屏線号力1.13344的江书附件。超出范围的内容未被认可、其结果/结论所依据的合格评定活动不在认可 范围内、(Please see the attachment of certificate No. L13344 at (CNAS website foot details, beyond which is not accredited, the conformity assessment activities on which the results/conclusions are based are outside the scope of accreditation).

3. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration):

名 称	证书号/有效期/溯源单位	技术指标	测重犯围
(Description)	(Certificate No./Due Date/Traceability to)	(Specification)	(Measuring Range)
声校准器	4GC21000572-0101/2022-12-07/賽宝(广州)		31.5Hz~16kHz
PULSE分析系统		频率:U <sub>rel</sub> =0.001%,k=2;电压: U <sub>rel</sub> =0.04%,k=2	频率:0.001Hz~51.2kHz, 电压:(1×10 <sup>5</sup> ~30)V
数字多用表		0.06%; DCI: ±0.05%; ACI	$\begin{array}{lll} DCV:(0\sim\!1000)V; & ACV \\ :(0.001\sim\!750)V@(3Hz\sim\\ 300kHz); & DCI:(0\sim\!3)A\\ ; & ACI:(0\sim\!3)A@(3Hz\sim\\ 5kHz); & R:(0\sim\!100)M\Omega\\ ; & f:3Hz\sim\!300kHz \end{array}$
正弦信号发生器	4GC21000496-0024/2022-11-01/賽宝(广州)	f: ±1mHz; 失真度 Distortion: <-70dB	f: 0.001Hz~200kHz; U : 100μV~5Vrms
标准传声器	GFJGJL1001220311961/2023-03-27/航空 304所	U=(0.05~0.20)dB (k=2)	10Hz~20kHz
前置放大器	GFJGJL1001220311960/2023-03-27/航空 304所	U=0.3dB (k=2)	(10~50000) Hz
步进衰减器	4GC22000181-0032/2023-04-18/賽宝(广州)	±3dB	(0~110) dB/10dB step @(DC~1GHz)

4. 校准地点(The calibration place):

广州市增城区朱村街朱村大道西78号9栋110室

5. 环境条件(Environmental conditions):

温度(Temperature): 23.2°C 相对湿度(Relative Humidity): 58%

6. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度的评定与表示》评定,由合成标 准不确定度乘以包含概率约为95%时对应的包含因子k得到。

The extended uncertainty given in this certificate is evaluated according to JJF1059,1-2012 "Evaluation and Expression of Uncertainty in Measurement", and is calculated by multiplying the combined standard uncertainty by the coverage factor k which corresponding to the coverage probability about 95%.

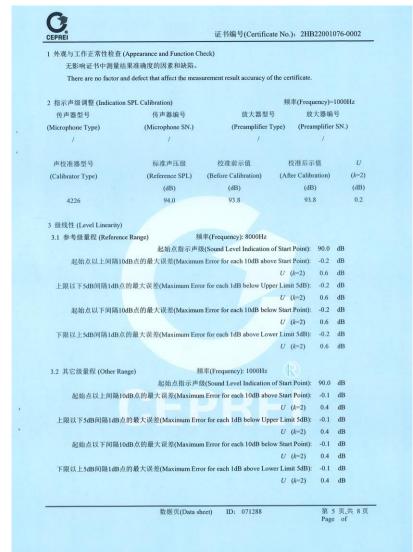
7. 证书中"P"、"合格"代表"测量结果在允许范围内", "F"、"不合格"代表"测量结果不在允许范围内", "N/A"代表" 不适用或技术指标暂时无法确认等"。本证书报告的结论仅供参考,使用人员应结合实际测量的要求合理使用,如考虑测量结果测量不确定度的影响等。

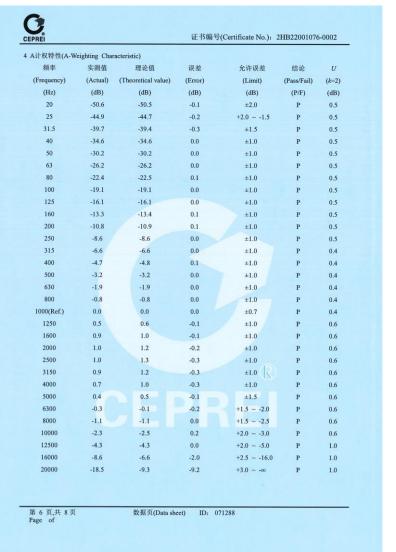
The and "Pass" in this certificate stand for "Low Limit≤the measured value ≤High Limit", "F" and "Fail" stand for "the measured value ≤Low Limit or the measured value ≤High Limit", "N/A" stands for "Not Applicable or The technical specification has not been confirmed etc". The conclusions of this certificate are for reference only. Users should use them reasonably according to the actual measurement requirements, such as considering the impact of measurement uncertainty, etc.

8. 建议校准周期是本实验室依据本证书报告的技术依据和仪器设备常规使用条件给出的建议,供委 托方参考。委托方可以根据实际使用情况自行决定样品的校准周期。

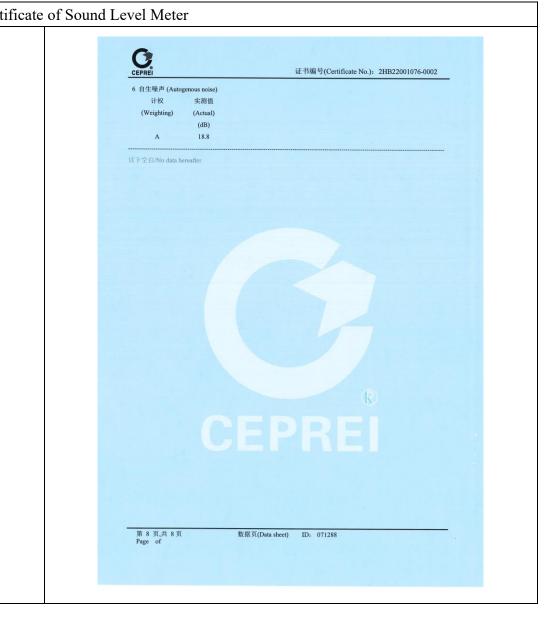
第 3 页,共 8 页

# Calibration Certificate of Sound Level Meter





(Fr	权特性(C-V 頻率 equency) (Hz) 20 25 31.5 40 50	Yeighting Cha 实测值 (Actual) (dB) -6.4 -4.5	理论值 (Theoretical value) (dB) -6.2	误差 (Error) (dB)	允许误差 (Limit)	结论 (Pass/Fail)	U
(Fr	頻率 equency) (Hz) 20 25 31.5 40	实测值 (Actual) (dB) -6.4 -4.5	理论值 (Theoretical value) (dB) -6.2	(Error)	(Limit)		
	(Hz) 20 25 31.5 40	(dB) -6.4 -4.5	(dB) -6.2			(Pass/Fail)	
	20 25 31.5 40	-6.4 -4.5	-6.2	(dB)			(k=2)
	25 31.5 40	-4.5			(dB)	(P/F)	(dB)
	31.5 40			-0.2	±2.0	P	0.5
	40	-3.0	-4.4	-0.1	+2.0 ~ -1.5	P	0.5
			-3.0	0.0	±1.5	P	0.5
	50	-2.1	-2.0	-0.1	±1.0	P	0.5
		-1.3	-1.3	0.0	±1.0	P	0.5
	63	-0.8	-0.8	0.0	±1.0	P	0.5
	80	-0.4	-0.5	0.1	±1.0	P	0.5
	100	-0.3	-0.3	0.0	±1.0	P	0.5
	125	-0.1	-0.2	0.1	±1.0	P	0.5
	160	0.0	-0.1	0.1	±1.0	P	0.5
	200	0.0	0.0	0.0	±1.0	P	0.5
	250	0.0	0.0	0.0	±1.0	P	0.5
	315	0.0	0.0	0.0	±1.0	P	0.4
	400	0.0	0.0	0.0	±1.0	P	0.4
	500	0.0	0.0	0.0	±1.0	P	0.4
	630	0.0	0.0	0.0	±1.0	P	0.4
	800	0.0	0.0	0.0	±1.0	P	0.4
10	00(Ref.)	0.0	0.0	0.0	±0.7	P	0.4
	1250	-0.1	0.0	-0.1	±1.0	P	0.6
	1600	-0.2	-0.1	-0.1	±1.0	P	0.6
	2000	-0.5	-0.2	-0.3	±1.0	P	0.6
	2500	-0.5	-0.3	-0.2	±1.0	P	0.6
	3150	-0.8	-0.5	-0.3	±1.0	P	0.6
	4000	-1.1	-0.8	-0.3	±1.0	P	0.6
	5000	-1.5	-1.3	-0.2	±1.5	P	0.6
1	6300	-2.1	-2.0	-0.1	+1.5 ~ -2.0	P	0.6
	8000	-2.9	-3.0	0.1	+1.5 ~ -2.5	P	0.6
	10000	-4.3	-4.4	0.1	+2.0 ~ -3.0	P	0.6
	12500	-6.4	-6.2	-0.2	+2.0 ~ -5.0	P	1.0
	16000	-10.5	-8.5	-2.0	+2.5 ~ -16.0	P	1.0
	20000	-20.4	-11.2	-9.2	+3.0 ~ -∞	P	1.0



# Catalogue of Sound Calibrator

For microphone calibration NC-74

#### How to use

Carefully insert the microphone all the way into the coupler of the NC-74. Then simply turn the power on to apply a constant sound pressure level to the diaphragm of the microphone.



The performance of the NC-74 is suitable for calibration of high-precision sound level meters. The unit is compact, lightweight, and easy to use. Two IEC LR6 (size AA) alkaline batteries will power the unit for more than 30 hours of continuous use at room temperature.

#### Authosphieric pressure compensation principi

The NC-74 incorporates a sensor that detects atmospheric pressure. Based on the information provided by the sensor, the CPU controls the signal amplitude. This allows the unit to always provide the correct output for achieving constant sound pressure level, regardless of fluctuations in atmospheric pressure.



#### Using the 1/2-inch adapter

To allow calibration of sound level meter microphones with inch diameter, the 1/2-inch microphone adapter can be removed. 1/2-inch microphones are calibrated with the adapter in place.



#### Specifications

Applicable standards	JIS C1515:2004 Class 1				
Suitable microphones	1-inch microphones	IEC 61094-1 Type LS1P UC-27 UC-25 UC-34			
	1/2-inch microphones	IEC 61094-1 Type LS2aP UC-59 UC-57 UC-53A UC-52 UC-26 UC-26 UC-30 UC-31 UC-33P			
Nominal sound pressure level	94 dB				
Sound pressure level tolerance	±0.3 dB				
Nominal frequency	1 kHz				
Frequency tolerance	±1.0 % or less				
Power requirements	IEC LR6 (size AA) alkal	ine battery X 2			
Dimensions, mass	Approx. 49 (H) × 80 (W) × 74 (D) mm Approx. 200 g (including batteries)				
Supplied accessories	Case X 1 IEC LR6 (size AA) alkaline battery X 2 1/2-inch microphone adapter NC-74-002 X 1				

\* Specification subject to change without notice.



3-20-41, Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan Tel: +81-42-359-7888 Fax: +81-42-359-7442 http://www.rion.co.jp/english/



## Calibration Certificate of Sound Calibrator

AAST-SLC-DJ, Cal 2022/08/04 中 国 赛 宝 实 验 室 计 量 检 测 中 心 (工业和信息化部电子第五研究所计量检测中心) CALIBRATION CERTIFICATE 证书编号: 2HB22001076-0001 Certificate No. Castco Testing Centre Limited 委托单位: Sound Level Calibrator 仪器名称: Description 型号规格: NC-74 Model/Type RION 制造商: Manufacturer 34178129 机身号: Serial No. AAST-SLC-05 管理号: Asset No. 2022-07-21 2022-08-04 接收日期: 校准日期: Cal. Date Rec. Date 2022-08-08 12个月(12 months) 建议校准周期: \_ 签发日期: Reference Cal. Period App. Date 所校准项目合格(Passed at Calibration Items) 结论: Conclusion 印章: Stamp 赛宝计量检测中心 CEPREI Calibration and Testing Centre 广州总部地址:广州市增城区朱村街朱村大道西78号 HQ Addr: No.78, Zhucun Avenue West, Zengcheng District, Guangzhou, China 客服电话: 020-87237633 传真: 020-87236189 Service Tel: 020-87237633 Fax: 020-87236189 投诉电话: 020-87236896 Complaint Tel: 020-87236896 邮件: cal@ceprei.com Email: cal@ceprei.com 例址: www.ceprei-cal.com Website: www.ceprei-cal.con 第 1 页,共 5 页 Page of

### Calibration Certificate of Sound Calibrator

正书编号(Certificate No.): 2HB22001076-0001

## 说 明 DIRECTIONS

1. 本机构质量管理体系符合ISO/IEC 17025:2017标准的要求,获得中国合格评定国家认可委员会(CNAS)认可,认可证书号为: CNAS L13344。

This laboratory quality management system meets the ISO/IEC 17025:2017 and is accredited by the China National Accreditation Service for Conformity Assessment, No. CNAS L13344.

2. 本次校准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes):

\* JJG 176-2005 声校准器检定规程: Sound Pressure Level: 94dB、104dB、114dB、124dB(63Hz~8kHz): 94dB、104dB、114dB、31.5Hz~16kHz): Frequency: 31.5Hz~16kHz; Harmonic Distortion: 0~10%. (20Hz~20 Ltd.)

本理的等等產至CNAS网站中注票编号为上13344的证书附件,超出范围的内容未被认可,其结果/结论所依据的合格评定活动不在认可 范围房、(Please see that attachment of centificiae No. L133444 (CNAS website for details, beyond which is not accredited, the conformily assessment activities on which the results/conclusions are based are outside the scope of accreditediation.)

3. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration):

名 称 (Description)	证书号/有效期/溯源单位 (Certificate No./Due Date/Traceability to)	技术指标 (Specification)	测量范围 (Measuring Range)
标准传声器	304所	U=(0.05-0.20)dB (k=2)	10Hz~20kHz
前置放大器		U=0.3dB (k=2)	(10~50000) Hz
PULSE分析系统	4GC22000014-0140/2023-01-15/赛宝(广州)	頻率:Uref=0.001%,k=2;电压: Usef=0.04%,k=2	频率:0.001Hz~51.2kHz, 电压:(1×10 <sup>-5</sup> ~30)V

4. 校准地点(The calibration place):

一州市增城区朱村街朱村大道西78号9栋110室

5. 环境条件(Environmental conditions):

温度(Temperature): 23.1°C 相对湿度(Relative Humidity): 65%

6. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度的评定与表示》评定,由合成标准不确定度乘以包含概率约为95%时对应的包含因子k得到。

The extended uncertainty given in this certificate is evaluated according to JJF1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement", and is calculated by multiplying the combined standard uncertainty by the coverage factor k which corresponding to the coverage probability about 95%.

7. 证书中"P"、"合格"代表"测量结果在允许范围内", "F"、"不合格"代表"测量结果不在允许范围内", "N/A"代表"不适用或技术指标暂时无法确认等"。本证书报告的结论仅供参考,使用人员应结合实际测量的要求合理使用,如考虑测量结果测量不确定度的影响等。

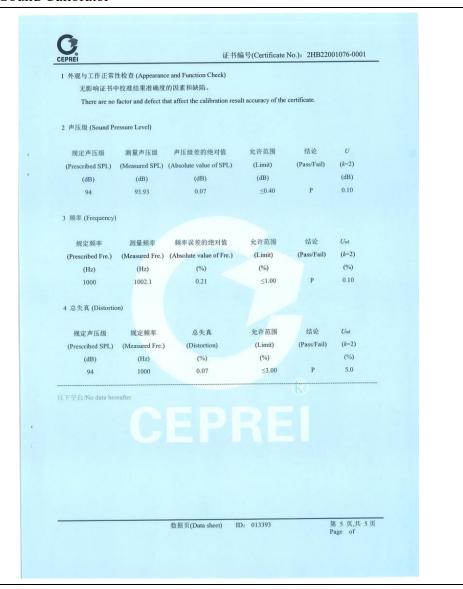
"P" and "Pass" in this certificate stand for "Low Limits the measured value shigh Limit," F" and "Fail" stand for "the measured value Low Limit or the measured value Nigh Limit, "Not Applicable or The technical specification has not been confirmed ete." The conclusions of this certificate are for reference only. Users should use them reasonably according to the actual measurement requirements, such as considering the impact of measurement measurement requirements.

8. 建议校准周期是本实验室依据本证书报告的技术依据和仪器设备常规使用条件给出的建议,供委托方参考。委托方可以根据实际使用情况自行决定样品的校准周期。

The reference calibration period is based on the reference documents and normal operating conditions of the calibrated instrument. It is only for reference. The client may decide the calibration period of the instrument according to the actual use.

- 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 Certificate of Sound Calibrator



中国赛宝实验室计量检测中心 (工业和信息化部电子第五研究所计量检测中心) CEPREI CHINA CEPREI LABORATORY CALIBRATION & TESTING CENTRE

# CALIBRATION CERTIFICATE

证书编号: 2HB22001358-0007 Certificate No.



委托单位: _	Ca	stco Testing Centre Limi	ted					
仪器名称: _ Description	Sound Level Calibrator							
型号规格: Model/Type		NC-74						
制造商: Manufacturer		RION						
机身号: Serial No.		34678556						
管理号: Asset No.		AAST-SLC-06						
接收日期: _ Rec. Date	2022-08-24	校准日期: Cal. Date	2022-09-14					
签发日期: _ App. Date	2022-09-15	建议校准周期: Reference Cal. Peri	12个月(12 months)					
结论:	所校准项	目合格(Passed at Calibra	tion Items)					

Calibrated by

Conclusion

Stamp

Website: www.ceprei-cal.com

Approved by

赛宝计量检测中心 广州总部地址:广州市增城区朱村街朱村大道西78号 客服电话: 020-87237633 传真: 020-87236189 投诉电话: 020-87236896 邮件: cal@ceprei.com 网址: www.ceprei-cal.com

CEPREI Calibration and Testing Centre HO Addr: No 78. Zhucun Avenue West Zengcheng District Guangzhou. China Service Tel: 020-87237633 Fax: 020-87236189 Complaint Tel: 020-87236896 Email: cal@ceprei.com

> 第1页,共5页 Page of

# DIRECTIONS

1. 本机构质量管理体系符合ISO/IEC 17025:2017标准的要求,获得中国合格评定国家认可委员会( CNAS) 认可, 认可证书号为: CNAS L13344。

This laboratory quality management system meets the ISO/IEC 17025:2017 and is accredited by the China National Accreditation Service for Conformity Assessment, No. CNAS L13344.

- 2. 本次校准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes):

  "JJG 176-2005 海皮准器接受规题! Sound Pressure Level: 944B、104dB、114dB、124dB(63Hz~8kHz): 94dB
  , 104dB、114dB(31.5Hz~16kHz): Frequency: 31.5Hz~16kHz: Harmonic Distortion: 0~10% (20Hz~20
- 详细内容请查看CNAS网站中注册编号为L13344的证书附件。超出范围的内容未被认可,其结果/结论所依据的合格评定活动不在认可范围内。(Please see the attachment of certificate No. L13344 at CNAS website for details, beyond which is not accredited, the conformity assessment activities on which the results/conclusions are based are outside the scope of accreditation.)

3. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration): 证书号/有效期/溯源单位 技术指标 (Certificate No./Due Date/Traceability to) (Specification) (Measuring Range) 标准传声器(2246093) GFJGJL1001220311961/2023-03-27/航空 U=(0.05~0.20)dB(k=2) 10Hz~20kHz 前置放大器(2239843) GFJGJL1001220311960/2023-03-27/航空 频率响应: ±0.1dB (10~50000) Hz PULSE分析系统(3160-1 4GC22000014-0140/2023-01-15/賽宝(广州) 频率:U<sub>rel</sub>=0.001%,k=2;电压: 频率:0.001Hz~51.2kHz, 电压:(1×10<sup>-5</sup>~30)V Urel=0.04%,k=2

- 4. 校准地点(The calibration place):
- 广州市增城区朱村街朱村大道西78号9栋110室
- 5. 环境条件(Environmental conditions):

温度(Temperature): 23.8℃ 相对湿度(Relative Humidity): 61%

6. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度的评定与表示》评定,由合成标 准不确定度乘以包含概率约为95%时对应的包含因子k得到。

The extended uncertainty given in this certificate is evaluated according to JJF1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement", and is calculated by multiplying the combined standard uncertainty by the coverage factor k which corresponding to the coverage probability about 95%.

7. 证书中"P"、"合格"代表"测量结果在允许范围内", "F"、"不合格"代表"测量结果不在允许范围 内","N/A"代表"不适用或技术指标暂时无法确认等"。本证书报告的结论仅供参考,使用人员应 结合实际测量的要求合理使用,如考虑测量结果测量不确定度的影响等。

"P" and "Pass" in this certificate stand for "Low Limit≤the measured value ≤High Limit", "F" and "Fail" stand for "the measured value < Low Limit or the measured value > High Limit", "N/A" stands for "Not Applicable or The technical specification has not been confirmed etc". The conclusions of this certificate are for reference only. Users should use them reasonably according to the actual measurement requirements, such as considering the impact of measurement

8. 建议校准周期是本实验室依据本证书报告的技术依据和仪器设备常规使用条件给出的建议,供委 托方参考。委托方可以根据实际使用情况自行决定样品的校准周期。

The reference calibration period is based on the reference documents and normal operating conditions of the calibrated instrument. It is only for reference. The client may decide the calibration period of the instrument according to the actual use.

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 Certificate of Sound Calibrator **SPECIFICATIONS** 证书编号(Certificate No.): 2HB22001358-0007 1 外观与工作正常性检查 (Appearance and Function Check) 无影响证书中校准结果准确度的因素和缺陷。 There are no factor and defect that affect the calibration result accuracy of the certificate. Velocity Range (TA410) 2 声压级 (Sound Pressure Level) Accuracy (TA410)162 Accuracy (TA430, TA440)<sup>162</sup> ±3% of reading or ±0.015 m/s (±3 ft/min), whichever is greater II规定声压级 测量声压级 声压级差的绝对值 允许范围 结论 Resolution (k=2)(Prescribed SPL) (Measured SPL) (Absolute value of SPL) (Limit) (Pass/Fail) Duct Size (TA430, TA440) (dB) (dB) (dB) Dimensions 94 0.07 ≤0.40 0.10 Range 3 频率 (Frequency) Temperature 频率误差的绝对值 允许范围 结论 $U_{\rm rel}$ Range (TA410, TA430) 规定频率 测量频率 Range (TA440) (Measured Fre.) (Absolute value of Fre.) (Pass/Fail) (k=2)(Limit) (Prescribed Fre.) Resolution (%) (Hz) (%) (%) (Hz) ≤1.00 0.10 1000 1003.7 0.37 Range Accuracy<sup>4</sup> Resolution 4 总失真 (Distortion) Range Resolution 规定声压级 总失真 允许范围 结论 $U_{\rm rel}$ (k=2)Dew Point (TA440 only) (Prescribed SPL) (Measured Fre.) (Distortion) (Limit) (Pass/Fail) Range (%) (%) (%) (Hz) Resolution 5.0 94 1000 0.02 <3.00 Operating (Electronics) Model TA410, TA430 Model TA440 Operating (Probe) Storage Range 1 second to 1 hour 第5页,共5页 数据页(Data sheet) ID: 013393 UK Tel: +44 149 4 459200 Germany Tel: +49 241 523030 France Tel: +33 491 11 87 64 P/N Z980548 Rev D (A4) ©Z014 TSI Incorporated

## Catalogue of Air Flow Meter (TSI TA440)

MODELS TA410, TA430 AND TA440

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)

0.01 m/s (1 ft/min)

1 to 635 cm in increments of 0.1 cm (1 to 250 inches in increments of 0.1 in.)

#### Volumetric Flow Rate (TA430, TA440)

Actual range is a function of velocity, and duct size

-18 to 93°C (0 to 200°F) -10 to 60°C (14 to 140°F) ±0.3°C (±0.5°F) 0.1°C (0.1°F)

#### Relative Humidity (TA440 only)

5 to 95% RH ±3% RH 0.1% RH

### Wet Bulb Temperature (TA440 only)

5 to 60°C (40 to 140°F)

-15 to 49°C (5 to 120°F) 0.1°C (0.1°F)

#### Instrument Temperature Range

-18 to 93°C (0 to 200°F) -10 to 60°C (14 to 140°F) -20 to 60°C (-4 to 140°F)

#### Data Storage Capabilities (TA430, TA440)

12,700+ samples and 100 test IDs

5 to 45°C (40 to 113°F)

#### Logging Interval (TA430, TA440)



Airflow Instruments, TSI Instruments Ltd.
Visit our website at www.airflowinstruments.co.uk for more information

Time Constant (TA430, TA440)

User selectable

**External Meter Dimensions** 

8.4 cm x 17.8 cm x 4.4 cm (3.3 in. x 7.0 in. x 1.8 in.)

Meter Weight with Batteries 0.27 kg (0.6 lbs.)

**Meter Probe Dimensions** 

Probe Length 101.6 cm (40 in.) Probe Diameter of Tip 7.0 mm (0.28 in.) Probe Diameter of Base 13.0 mm (0.51 in.)

**Articulating Probe Dimensions** 

Articulating Section Length 19.7 cm (7.8 in.) Diameter of Articulating Knuckle 9.5 mm (0.38 in.)

#### **Power Requirements**

Four AA-size batteries or AC adapter

			·
	TA410	TA430, TA430-A	TA440, TA440-A
Velocity range 0 to 20.00 m/s (0 to 4000 ft/min)	+		
Velocity range 0 to 30.00 m/s (0 to 6000 ft/min)			+
Temperature	+	+	+
Flow		+	+
Humidity, wet bulb, dew point			:#::
Probe	Straight	Straight or -A articulated	Straight or -A articulated
Variable time constant		+	+
Manual data logging		+	+
Auto save data logging			
Statistics		+	+
Review data		+	+
LogDat2 downloading software		+	+
Free Certificate of Calibration	+	+	+

The accuracy statement begins at 30 ft/min through 4000 ft/min (0.15 m/s through 20 m/s) for the Model TA40, and 30 ft/min through 5,000 ft/min (0.15 m/s through 30 m/s) for Models TA430 and TA440.

Nodes 1A430 and 1A440.

3 Accuracy with instrument case at 25°C (77°F), add uncertainty of 0.03°C/°C (0.05°F/°F) for change in instrument temperature.

4 Accuracy with probe at 25°C (77°F), Add uncertainty of 0.2% RH/°C (0.1% RH/°F) for change in probe temperature. Includes 196 hypoteresis.

### Calibration Certificate of Air Flow Meter



### Cal Lab Limited 校正實驗室有限公司

Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NT, Hong Kong



Tel: +852 25680106 Email: info@callab.com.hk Fax: +852 30116194 Website: www.callab.com.hk

#### Calibration Certificate No.: CC0222301

**Customer Information** 

Customer: Castco Testing Centre Limited Address: 33, On Kui Street, Fanling, N.T.

**Equipment Identification** 

Manufacturer Model No Serial No. Assigned equipment No. Equipment Description Air Velocity Monitor TSI AIRFLOW TA440 TA4401706003 AAST-FLOW-03

Certificate Information

Calibration Procedure:

Date of Receipt: 11 January 2023 Calibration Condition: 23.5°C, 58%RH, 1003hPa Date of Calibration: 13 January 2023 Adjustment: N/A Due Date of Calibration: Appearance: Good

Remark:

Reference Equipment Identification

Equipment Description Model Serial No. **Expiration Date** T95351316004 11 August 2024 9535 Hot Wire Anemometer

#### Result of Calibration

Air flow rate - Frror of indication

(L/min)	Error (%)	Uncertainty (%FS)	Technical Requirement	Technical Reference Doc.					
0.51	2.0	3.6	± 5 %	JJG 956-2013					
1.0 0.99		0.99		0.99	0.99	-1.0	3.6	±5%	JJG 956-2013
2.03	1.5	3.6	± 5 %	JJG 956-2013					
5.07	1.4	3.6	± 5 %	JJG 956-2013					
	0.51 0.99 2.03	0.51 2.0 0.99 -1.0 2.03 1.5	0.51         2.0         3.6           0.99         -1.0         3.6           2.03         1.5         3.6	0.51         2.0         3.6         ±5%           0.99         -1.0         3.6         ±5%           2.03         1.5         3.6         ±5%					

The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in measurement" and give an internal estimated to have a leve

The edistributed eligibilities discretisation shall be destructed by the control of the control

Note4: The result shows in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration item as receive

Calibrated By:

Checked and Approved By:

Company Chop:

Certificate Issue Date: 13 January 2023

CT-BEG-03

\*\*\* End of Certificate \*\*\*

1. The certificate shall not be reproduced except in full, without written approval of Cal Lab Calibration

2. The certificate is issued subject to the latest Terms and Conditions, available at our web site

CC0222301 Page 1 of 1



### Cal Lab Limited 校正實驗室有限公司

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Tel: +852 25680106 Email: info@callab.com.hk

Fax: +852 30116194 Website: www.callab.com.hk



#### Calibration Certificate No.: CC0312212

Customer Information

Customer: Castco Testing Centre Limited Address: 33, On Kui Street, Fanling, N.T.

**Equipment Identification** 

Equipment Description Manufacturer Model No. Serial No. Assigned equipment No. Air Velocity Monitor AIRFLOW TA440 TA4401739003 AAST-FLOW-04

Certificate Information

19 December 2022 Calibration Condition: 23.5°C, 58%RH, 1003hPa Date of Receipt: Date of Calibration: 13 January 2023 Adjustment: N/A Due Date of Calibration: Good

N/A Appearance: SOP-112 N/A Calibration Procedure: Remark:

Reference Equipment Identification

Serial No. Equipment Description Model **Expiration Date** T95351316004 11 August 2024 Hot Wire Anemometer 9535

#### **Result of Calibration**

Air flow rate - Error of indication

Measured reading (L/min)			Technical Requirement	Technical Reference Doc.	
0.5 0.49 1.0 1.02		3.6	±5%	JJG 956-2013	
		3.6	± 5 %	JJG 956-2013	
2.02	1.0	3.6	±5%	JJG 956-2013	
5.05	1.0	3.6	±5%	JJG 956-2013	
	(L/min) 0.49 1.02 2.02	(L/min) Error (%) 0.49 -2.0 1.02 2.0 2.02 1.0	(L/min) Error (%) (%FS) 0.49 -2.0 3.6 1.02 2.0 3.6 2.02 1.0 3.6	(L/min)         Error (%)         (%FS)         Requirement           0.49         -2.0         3.6         ±5 %           1.02         2.0         3.6         ±5 %           2.02         1.0         3.6         ±5 %	

Note1: The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in measurement" and give an internal estimated to have a level

the collisions of pieces. A coverage letter of 2 is estumed unless explicitly cause.

The standard (§) and instruments used in less calibration are tracceible to national in international recognized standard and are calibration and executely and good condition.

The result reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long term stability of the

Note4: The result shows in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration item as receive

Calibrated By: Checked and Approved By: Company Chop:

Certificate Issue Date: 13 January 2023

CT-BEG-03

\*\*\* End of Certificate \*\*\*

1. The certificate shall not be reproduced except in full, without written approval of Cal Lab Calibration 2. The certificate is issued subject to the latest Terms and Conditions, available at our web site

CC0312212

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Appendix L – Noise monitoring results and graphic	al presentation

M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

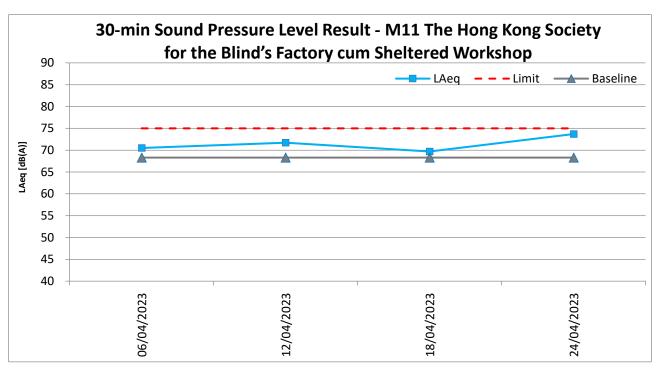
D	T (0C)	XX7 .1		Measured Noise Level at M11, dB(A)						T : :,
Date	Temp (°C)	weather	-	Γiı	ne	Baseline	$L_{\text{Aeq}}$	$L_{A10}$	$L_{A90}$	Limit
06/04/2023	27.8	Sunny	13:28	-	13:58	68.3	70.5	72.9	60.8	75
12/04/2023	27.5	Sunny	10:33	-	11:03	68.3	71.7	74.9	59.2	75
18/04/2023	28.1	Sunny	14:53	-	15:23	68.3	69.7	72.5	56.0	75
24/04/2023	23.6	Cloudy	9:55	-	10:25	68.3	73.7	76.6	66.3	75
				Maximum			73.7			
			Minimum			69.7				
				Average			71.7			

NOTE: Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 30-min noise monitoring at M11 were conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for M11 is confirmed.

M12 - Hong Kong Children's Hospital

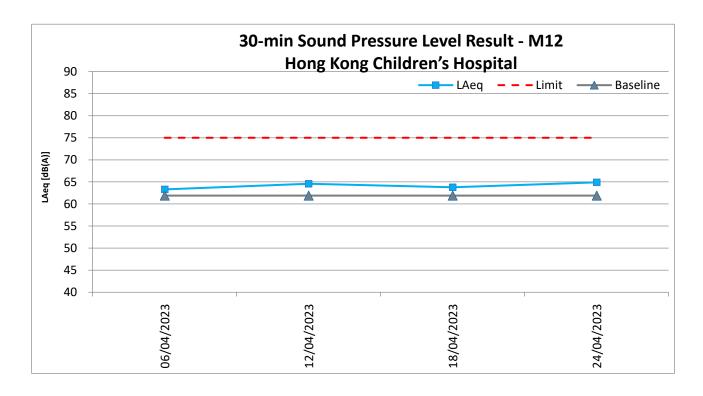
The strong comments of strong co										
D.	Measured Noise Level at M12, dB(A)							T,		
Date Temp (°C)		weather	Time			Baseline	$\mathcal{L}_{\text{Aeq}}$	$L_{A10}$	$L_{A90}$	Limit
06/04/2023	27.8	Sunny	10:26	-	10:56	61.9	63.3	67.4	61.2	75
12/04/2023	27.5	Sunny	14:00	-	14:30	61.9	64.6	67.6	61.4	75
18/04/2023	28.1	Sunny	10:18	-	10:48	61.9	63.8	66.2	61.5	75
24/04/2023	23.6	Cloudy	13:23	-	13:53	61.9	64.9	66.6	62.8	75
				Maximum			64.9			
			Minimum			63.3				
			Average			64.2				

 $L_{Aeq, 30-min}$  graphical results of M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop



NOTE: Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 30-min noise monitoring at M11 were conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for M11 is confirmed.

# LAeq, 30-min graphical results of M12 - Hong Kong Children's Hospital



# Appendix M – Event and Action Plan for noise

Every	Action									
Event	ET	IEC	Supervisor / ER	Contractor						
Action Level being exceeded	<ol> <li>Notify Supervisor / ER, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, Supervisor / ER and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified.)</li> </ol>	1. Review the investigation results submitted by the ET;  2. Review the proposed remedial measures submitted by the Contractor and advise the ER accordingly;  3. Advise the Supervisor / ER on the proposed remedial measures.  (The above actions should be taken within 2 working days after the exceedance is identified.)	<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>(The above actions should be taken within 2 working days after the exceedance is identified.)</li> </ol>	<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	1. Inform IEC, Supervisor /ER, Contractor and EPD; 2. Repeat measurement to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contract's working procedure; 6. Discuss remedial measures required with the IEC, Contractor and Supervisor /ER; 7. Assess effectiveness of	1. Discuss the potential remedial actions with Supervisor /ER, ET and Contractor;  2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly.  (The above actions should be taken within 2 working days after the exceedance is identified.)	1. Confirm receipt of notification of failure in writing;  2. Notify Contractor;  3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;  4. Supervise the implementation of remedial measures;  5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC and Supervisor /ER within 3 working days of notification;</li> <li>Implement the agreed proposal;</li> <li>Submit further proposal if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.</li> <li>(The above actions should be</li> </ol>						

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

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

Event		Acı	tion	
Event	ET	IEC	Supervisor / ER	Contractor
Design Check	1. Check final design conforms to the requirements of EP and prepare report.	Check report.     Recommend remedial design if necessary.	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>	Notify Contractor.     Ensure remedial measures are properly implemented.	Amend working methods.     Rectify damage and undertake any necessary replacement.
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>	Contractor on possible remedial measures.	Notify Contractor.     Ensure remedial measures are properly implemented.	Amend working methods.     Rectify damage and undertake any necessary replacement.

# **Appendix O – Waste Flow Table**

Name of Department: CEDD Contract No.: ED/2018/01

## Monthly Summary Waste Flow Table for April 2023

				Wonting	Camma	y waste i	low lable	יטו א	prii zozo			
	Ac	tual Quantitie	s of Inert C&D	Materials Gene	rated Mont	hly		Α	Actual Quantitie	s of C&D Was	tes Generated Mo	nthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill		ed Met	als	Paper / cardboard packaging	Plastics (see Note 3	Chemical Was	Others, e.g. general refuse
	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m	(in '00	0 kg)	(in '000kg)	(in '000kg	(in '000kg)	(in '000m³)
Jan	1.894		0.351		1.543							0.142
Feb	3.330				3.330	0.474	4	-				0.139
Mar	3.384		1.484		1.900	0.474	4	-	0.312			0.155
Apr	5.321		4.489		0.832			-				0.055
May												
Jun												
Sub-total	13.929		6.324		7.605	0.948	3	-	0.312			0.491
July												
Aug												
Sep												
Oct												
Nov Dec												
Total	13.929		6.324		7.605	0.948	3		0.312			0.491
rotar	10.020			st of Total Quan				erated		act*		0.401
Total Quantity Generate		oken Reuse	ed in Reus	sed in Dispos Projects Public	ed as	orted Fill	Metals		Paper / cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m	<sup>3</sup> ) (in '000)	m³) (in '00	0m³) (in '00	00m³) (in '00	0m³) (in	'000m³)	(in '000 kg)		(in '000kg)	(in '000kg)	(in '000kg)	(in '000m³)
207.384	2.103	3   10.	.2   14	40 27.4	115	25	200		0.8	0.1		3.891

Notes: (1) The performance targets are given in ER Appendix 8I Clause 14 and the EM&A Manual

<sup>(2)</sup> The waste flow table shall also include C&D materials to be imported for use at the Site

<sup>(3)</sup> Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material and water barrier

<sup>(4)</sup> The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m3 (ER Part 8 Clause 8.7.5(d)(ii) refers)

Assume inert C&D materials density and non-inert C&D materials are 1.9 ton/m³ and 1.5 ton/m³

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

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
S3.2		8 times daily watering of the work site with active dust emitting	^
		activities.	
S3.2	S4.8	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.	
		- Stockpiling site(s) should be lined with impermeable sheeting	^
		and bunded. Stockpiles should be fully covered by	
		impermeable sheeting to reduce dust emission.	
		- Misting for the dusty material should be carried out before	۸
		being loaded into the vehicle.	
		- Any vehicle with an open load carrying area should have	^
		properly fitted side and tail boards.	
		- 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.	
		- 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.	
		- The vehicles should be restricted to maximum speed of 10 km	^
		per hour and confined haulage and delivery vehicle to	
		designated roadways insider the site. On- site unpaved roads	
		should be compacted and kept free of lose materials.	
		- Vehicle washing facilities should be provided at every vehicle	^
		exit point.	
		- The area where vehicle washing takes place and the section of	٨
		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	٨
		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.	

Implementatio	n Schedule for I	Noise Measures	
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	<b>Environmental Protection Measures / Mitigation Measures</b>	Status
S3.3		Use of quiet PME, movable barriers for Asphalt Paver, Breaker,	٨
		Excavator and Hand-held breaker and full enclosure for Air	
		Compressor, Bar Bender, Concrete Pump, Generator and Water	
		Pump.	
S3.3		Good Site Practice:	
S3.3		- Only well-maintained plant should be operated on-site and	۸
		plant should be serviced regularly during the construction	
		program.	
		- Silencers or mufflers on construction equipment should be	٨
		utilized and should be properly maintained during the	
		construction program.	
		- Mobile plant, if any, should be sited as far away from NSRs as	^
		possible.	
		- Machines and plant (such as trucks) that may be in intermittent	٨
		use should be shut down between works periods or should be	
		throttled down to a minimum.	
		- Plant known to emit noise strongly in one direction should,	٨
		wherever possible, be orientated so that the noise is directed	
		away from the nearby NSRs.	
		- Material stockpiles and other structures should be effectively	^
		utilized, wherever practicable, in screening noise from on-site	
		construction activities.	
		- Scheduling of Construction Works during School	N/A
		Examination Period	

Implementatio	Implementation Schedule for Water Quality Measures					
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status			
S3.4		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:				
S3.4		- use of sediment traps.	٨			
S3.4		- adequate maintenance of drainage systems to prevent flooding	^ <b>*</b>			
		and overflow.				

EIA for KTD	EIA for KTD	<b>Environmental Protection Measures / Mitigation Measures</b>	Status
Development Ref.	<ul><li>Roads D3A</li><li>D4A Ref.</li></ul>	ŷ	Status
	S5.8	- Surface run-off from construction sites should be discharged	^ <b>*</b>
		into storm drains via adequately designed sand/silt removal	
		facilities such as sand traps, silt traps and sedimentation basins.	
	S5.8	- Channels or earth bunds or sand bag barriers should be provided	^
		on site to properly direct stormwater to such silt removal	
		facilities. Perimeter channels should be provided on site	
		boundaries where necessary to intercept storm run-off from	
		outside the site so that it will not wash across the site. Catchpits	
		and perimeter channels should be constructed in advance of site	
		formation works and earthworks.	
	S5.8	- Silt removal facilities, channels and manholes should be	^
		maintained and the deposited silt and grit should be removed	
		regularly, at the onset of and after each rainstorm to prevent	
		local flooding. Any practical options for the diversion and	
		re-alignment of drainage should comply with both engineering	
		and environmental requirements in order to provide adequate	
		hydraulic capacity of all drains. Minimum distance of 100 m	
		should be maintained between the discharge points of	
		construction site run-off and the existing saltwater intakes.	
	S5.8	- Earthworks final surfaces should be well compacted and the	^
		subsequent permanent work or surface protection should be	
		carried out immediately after the final surfaces are formed to	
		prevent erosion caused by rainstorms. Appropriate drainage like	
		intercepting channels should be provided where necessary.	
	S5.8	- Measures should be taken to minimize the ingress of rainwater	^
		into trenches. If excavation of trenches in wet seasons is	
		necessary, they should be dug and backfilled in short sections.	
		Rainwater pumped out from trenches or foundation excavations	
		should be discharged into storm drains via silt removal facilities.	
	S5.8	- Open stockpiles of construction materials (e.g. aggregates,	^
		sand and fill material) on sites should be covered with tarpaulin	
		or similar fabric during rainstorms.	
	S5.8	- Manholes (including newly constructed ones) should always be	^
		adequately covered and temporarily sealed so as to prevent silt,	
		construction materials or debris from getting into the drainage	
		system, and to prevent storm run-off from getting into foul	
		sewers. Discharge of surface run-off into foul sewers must	
		always be prevented in order not to unduly overload the foul	

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	<b>Environmental Protection Measures / Mitigation Measures</b>	Status
RCI.	tt D-III Rei.	sewerage system.	
	S5.8	- Good site practices should be adopted to remove rubbish and	٨
		litter from construction sites so as to prevent the rubbish and	
		litter from spreading from the site area. It is recommended to	
		clean the construction sites on a regular basis.	
S3.4		Construction site should be provided with adequately designed	٨
		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.	
S3.4	S5.8	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.	
		If excavation in soil cannot be avoided in these months or at any	
		time of year when rainstorms are likely, for the purpose of	
		preventing soil erosion, temporary exposed slope surfaces should be	
		covered e.g. by tarpaulin, and temporary access roads should be	
		protected by crushed stone or gravel, as excavation proceeds.	
		Intercepting channels should be provided (e.g. along the crest / edge	
		of excavation) to prevent storm runoff from washing across exposed	
		soil surfaces. Arrangements should always be in place in such a way	
		that adequate surface protection measures can be safely carried out	
		well before the arrival of a rainstorm.	
S3.4		Sediment tanks of sufficient capacity, constructed from pre-formed	٨
		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	

		Water Quality Measures	T
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		and particularly suited to applications where the influent is pumped.	
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.	
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.	
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.	
S3.4		Oil interceptors should be provided in the drainage system and	NA
		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.	
S3.4	S5.8	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.	
S3.4		<u>Drainage</u>	٨
		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.	
S3.4		All temporary and permanent drainage pipes and culverts provided	^

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EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		and that disposal of any solid materials, litter or wastes to marine	
		waters does not occur.	
	S5.8	Boring and Drilling Water	^
		Water used in ground boring and drilling for site investigation or	
		rock / soil anchoring should as far as practicable be re-circulated	
		after sedimentation. When there is a need for final disposal, the	
		wastewater should be discharged into storm drains via silt removal	
		facilities.	
	S5.8	Acid Cleaning, Etching and Pickling Wastewater	NA
		Acidic wastewater generated from acid cleaning, etching, pickling	
		and similar activities should be neutralized to within the pH range	
		of 6 to 10 before discharging into	
		foul sewers.	
	S5.8	Effluent Discharge	^
		There is a need to apply to EPD for a discharge licence for discharge	
		of effluent from the construction site under the WPCO. The	
		discharge quality must meet the requirements specified in the	
		discharge licence. All the runoff and wastewater generated from the	
		works areas should be treated so that it satisfies all the standards	
		listed in the TM-DSS. Minimum distance of 100 m should be	
		maintained between the discharge points of construction site effluent	
		and the existing seawater intakes and the planned WSR mentioned in	
		S5.3.1 as appropriate. The beneficial uses of the treated effluent for	
		other on-site activities such as dust suppression, wheel washing and	
		general cleaning etc., can minimise water consumption and reduce	
		the effluent discharge volume. If monitoring of the treated	
		effluent quality from the works areas is required during the	
		construction phase of the Project, the monitoring should be carried	
		out in accordance with the relevant WPCO licence which is under	
		the ambit of regional office (RO) of EPD.	
	S5.8		^*
	33.0	Accidental Spillage  Contractor must register as a chemical waste producer if chemical	
		wastes would be produced from the construction activities. The	
		Waste Disposal Ordinance (Cap 354) and its subsidiary regulations	
		in particular the Waste Disposal (Chemical Waste) (General)	
		Regulation, should be observed and complied with for control of	
		chemical wastes.	
		Any service shop and maintenance facilities should be located on	

Implementatio	Implementation Schedule for Water Quality Measures				
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	<b>Environmental Protection Measures / Mitigation Measures</b>	Status		
		hard standings within a bunded area, and sumps and oil interceptors			
		should be provided. Maintenance of vehicles and equipment			
		involving activities with potential for leakage and spillage should			
		only be undertaken within the areas appropriately equipped to			
		control these discharges.			
	S5.8	Disposal of chemical wastes should be carried out in compliance	٨		
		with the Waste Disposal Ordinance. The Code of Practice on the			
		Packaging, Labelling and Storage of Chemical Wastes published			
		under the Waste Disposal Ordinance details the requirements to deal			
		with chemical wastes. General requirements are given as follows:			
		- Suitable containers should be used to hold the chemical wastes			
		to avoid leakage or spillage during storage, handling and			
		transport.			
	S5.8	- Chemical waste containers should be suitably labelled, to notify	^		
		and warn the personnel who are handling the wastes, to avoid			
		accidents.			
	S5.8	- Storage area should be selected at a safe location on site and	٨		
		adequate space should be allocated to the storage area.			

Implementatio	Implementation Schedule for Waste Management Measures				
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status		
S3.5		Good Site Practices			
		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:			
S3.5		- Nomination of an approved person, such as a site manager, to	٨		
		be responsible for good site practices, arrangements for			
		collection and effective disposal to an appropriate facility, of all			
		wastes generated at the site.			
	S6.7	- Prepare a Waste Management Plan, which becomes a part of the	٨		
		Environmental Management Plan, in accordance with the			
		requirements stipulated in ETWB TC(W) No. 19/2005,			
		approved by the Engineer/Supervising Officer of the Project			
		based on current practices on construction sites.			
S3.5	S6.7	- Training of site personnel in proper waste management and	۸		
		chemical waste handling procedures.			

EIA for KTD Development Ref. EIA for KTD - Roads D3A & D4A Ref. S3.5 S6.7 -		8	
		- Provision of sufficient waste disposal points and regular	٨
		collection for disposal.	
S3.5	S6.7	- Appropriate measures to minimise windblown litter and dust	٨
		during transportation of waste by either covering trucks or by	
		transporting wastes in enclosed containers.	
S3.5		- A recording system for the amount of wastes generated,	^
		recycled and disposed of (including the disposal sites).	
	S6.7	- Regular cleaning and maintenance programme for drainage	^
		systems, sumps and oil interceptors.	
	S6.7	- Training should be provided to workers about the concepts of	^
		site cleanliness and appropriate waste management procedures,	
		including waste reduction, reuse and recycle.	
S3.5		Waste Reduction Measures	^
		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. Recommendations to achieve	
		waste reduction include:	
S3.5 S6.7		- Sort C&D waste from demolition of the remaining structures to	NA
		recover recyclable portions such as metals.	
S3.5	S6.7	- Segregation and storage of different types of waste in different	^
		containers, skips or stockpiles to enhance reuse or recycling of	
		materials and their proper disposal.	
S3.5	S6.7	- 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.	
S3.5		- Any unused chemicals or those with remaining functional	^
		capacity should be recycled.	
S3.5	S6.7	- Proper storage and site practices to minimise the potential for	^
		damage or contamination of construction materials.	
S3.5		Construction and Demolition Materials	
		Mitigation measures and good site practices should be incorporated	
		in the contract document to control potential environmental impact	
		from handling and transportation of C&D material. The mitigation	
		measures include:	
S3.5		- Where it is unavoidable to have transient stockpiles of C&D	^
		material within the Project work site pending collection for	

Development Ref. EIA for KTD - Roads D3A & D4A Ref.		<b>A</b>	
		disposal, the transient stockpiles shall be located away from	
		waterfront or storm drains as far as possible.	
S3.5		- Open stockpiles of construction materials or construction	^
		wastes on-site should be covered with tarpaulin or similar	
		fabric.	
S3.5		- Skip hoist for material transport should be totally enclosed by	^
		impervious sheeting.	
S3.5		- Every vehicle should be washed to remove any dusty materials	^
		from its body and wheels before leaving a construction site.	
S3.5		- The area where vehicle washing takes place and the section of	^
		the road between the washing facilities and the exit point should	
		be paved with concrete, bituminous materials or hardcores.	
S3.5		- The load of dusty materials carried by vehicle leaving a	٨
		construction site should be covered entirely by clean	
		impervious sheeting to ensure dust materials do not leak from	
		the vehicle.	
S3.5		- All dusty materials should be sprayed with water prior to any	^
		loading, unloading or transfer operation so as to maintain the	
		dusty materials wet.	
S3.5		- The height from which excavated materials are dropped should	^
		be controlled to a minimum practical height to limit fugitive	
		dust generation from unloading.	
S3.5		- When delivering inert C&D material to public fill reception	^
		facilities, the material should consist entirely of inert	
		construction waste and of size less than 250mm or other sizes	
		as agreed with the Secretary of the Public Fill Committee. In	
		order to monitor the disposal of the surplus C&D material at	
		the designed public fill reception facility and to control fly	
		tipping, a trip-ticket system as stipulated in the ETWB TCW	
		No. 31/2004 "Trip Ticket System for Disposal of Construction	
		and Demolition Materials" 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.	
	S6.7	- Plan and stock construction materials carefully to minimize	٨
		amount of waste generated and avoid unnecessary generation	

Implementatio	Implementation Schedule for Waste Management Measures			
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status	
		of waste.		
S3.5		Chemical Waste	٨	
		After use, chemical wastes (for example, cleaning fluids, solvents,		
		lubrication oil and fuel) should be handled according to the Code of		
		Practice on the Packaging, Labelling and Storage of Chemical		
		Wastes. Spent chemicals should be collected by a licensed collector		
		for disposal at the CWTF or other licensed facility, in accordance		
		with the Waste Disposal (Chemical Waste) (General) Regulation.		
	S6.7	Separation of chemical wastes for special handling and appropriate	^	
		treatment.		
S3.5 <u>General Refuse</u>		General Refuse	٨	
		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		
met		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 marin			
		environment, or creating odour nuisance or pest and vermin		
		problem.		

Implementatio	Implementation Schedule for Landscape and Visual Measures				
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	<b>Environmental Protection Measures / Mitigation Measures</b>	Status		
S3.8.12		All existing trees should be carefully protected during construction.	٨		
S3.8.12		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.	NA		
S3.8.12		Control of night-time lighting.	٨		
S3.8.12		Erection of decorative screen hoarding.	٨		
	S7.9	Construction Site Control  - CM1 - Minimized construction area and contractor's temporary works areas.	^		
		- CM2- Control of night-time lighting and glare by hooding all lights.	^		
<u> </u>		- CM3 - Erection of decorative mesh screens or construction	^		

Implementation	Implementation Schedule for Landscape and Visual Measures				
EIA for KTD Development Ref.	evelopment   - Roads D3A		Status		
		hoardings around works areas in visually unobtrusive colours.			
	- CM4 - Reduction of construction period to practical minimum.		^		
	- CM5 - Limitation of / Ensuring no run-off into surrounding landscape and adjacent seawater areas.		^		
		- CM6 - Temporary or advance landscape should be provided along the temporary access roads to the Cruise Terminal until such time as road D3 is open.			

Remarks:			
^ Compliance of mitigation measure.		X	Non-compliance of mitigation measure.
N/A Not Applicable at this stage.		•	Non-compliance but rectified by the contractor.
N/A (1)	Not observed.		
*	Recommendation was made during site audit	#	Recommendation was made during audit and to be
but improved/rectified by the contractor.			improved/ rectified by the contractor.

# Mitigation Measures undertaken by the Contractor for site inspections





Date:	06 April 2023
Mitigation	Recycle chemical waste
Measures:	bins were provided in the
	construction site

Date:
Mitigation
Measures:

Equipment with QPME label was used.





Date:	27 April 2023	Date:	27 April 2023
Mitigation Measures:	Haul road was sprayed with water to maintain the entire road surface wet.	Mitigation Measures:	All vehicles have been cleaned before leaving at vehicle every exit point.
	WCL.		

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

**Reporting Month: April 2023** 

Contract No.	Record of Complaint (Yes/No)	Record of Warning (Yes/No)	Notification of Summons and Successful Prosecutions (Yes/No)
ED/2018/01	No	No	No

Cumulative Statistics on Complaints, Notification of Summons and Successful Prosecutions

upto reporting month

Contract No.	Record of Complaint	Record of Warning	Notification of Summons and Successful Prosecutions
ED/2018/01	11	0	0

Complaint	int Log for ED/2018/01				
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status	
C0001	A dust complaint was referred from the Contractor on 21 Oct 2020 regarding a public complaint via 1823 hotline (Case no. 3-6518939602) on 20 Oct 2020.	proper time.  2. Stockpile was not covered properly.  3. Haul road was not wetted.	Investigation  1. Based on the information provided by the Contractor on 22 Oct 2020, the water sprinklers system was sprayed every 15 minutes with 70 seconds interval automatically. For the area that water sprinklers system was not covered, manual water spraying was provided. Dump trucks were covered with mechanical cover after loading the materials. The stockpile area was covered by the tarpaulin during night time.  2. Based on the monitoring results on 16 Oct 2020, the 1-hour and 24-hour TSP results were below the Action Levels and Limit Levels.  3. Regular site inspection was conducted by ET on 22 Oct 2020, no adverse observation against the dust impact was recorded.  Action taken  As per the Contractor, the water sprinkler are now adjusted to start at 8:00am and end at 6:00pm for Monday to Saturday while from 8:00am to 5:00pm on Sunday. Water spraying are set with 5-minute time interval with duration 30-60 seconds.  Recommendations  To minimize the impact for air quality, mitigation measures should be enhanced specially in dry seasons are recommended:  1. Increase the frequency and duration for automatic water spraying system.  2. Main haul road and the area that water sprinklers system was not covered in the	- Closed-out on 5 Nov 2020 No further complaint was received.	

Complaint	Log for ED/2018/01  Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date
Ref. No.	Date of Complaint	Description of Complaint	investigation / Actions taken / Recommendations	/ Status
			construction site should be wetted by water trucks or manually in regular basis.  3. Ensure stockpiling sites should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting at all time except during working process.	
C0002	A dust complaint was referred from the Contractor on 8 Sep 2021 through E-Mail regarding a complaint received by EPD (EPD ref.: K19/RE/00021205-21) on 7 Sep 2021.	Complaint of dust problem at the pavement of Muk Tai Street near Sports Park.	Investigation As per contractor, part of the complaint area was within the site boundary of the project.  1. Manual water spraying was provided. 2. The exposed surface and stockpile areas were covered by the impermeable tarpaulin sheet.  Action taken The exposed surface and stockpile area was covered by the impermeable tarpaulin sheet.  Recommendations There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however the contractor is recommended to implement the following measures to minimize the impact for air quality:  1. Ensure stockpiling sites should be lined with impermeable sheeting and bunded.  2. Stockpiles should be fully covered by impermeable sheeting at all time except during working process.  3. Ensure the work fulfill the relevant statutory requirements on control of air pollution.  4. Take necessary measures to minimize the	- Closed-out on 4 Oct 2021 No further complaint was received.

Complaint	Complaint Log for ED/2018/01							
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status				
			environmental nuisance arising from the construction site.					
C0003	A water discharge complaint was referred from the Contractor on 10 Dec 2021 through E-Mail regarding a complaint received by EPD (ref.: K19/RE/00029046-21) on 9 Dec 2021.		<ul> <li>Investigation Joint site inspection was conducted by ER, IEC, ET and the contractor on 14 Dec 2021, no adverse observation against the water impact was recorded.  1. There was no muddy water discharge to DSD outfall near the roundabout of Shing Fung Road.  2. The sandbag with layers and filter were provided at the manholes.  Action taken  - Sandbags and filter were used to block the manholes.  - Manholes had been adequately covered and replace the filter frequently.  Recommendations There was no direct evidence showing that the water nuisance was caused by the contractor at the complaint area.  Some of muddy water generated from wheel washing might be flow to the outfall inside the site boundary, however the contractor had taken the mitigation measure by using sandbag and filter to ease the nuisance. The contractor is recommended to implement the following measures to minimize the impact for waste water:  1. Enhance the sandbag with several layers instead of one layer only and replace the filter frequently.</li> </ul>	- Closed-out on 5 Jan 2022 No further complaint was received.				

	Complaint Log for ED/2018/01						
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status			
			<ol> <li>Modify the wheel washing area such that the muddy water will be directly flow to the pit and then waste water treatment facility.</li> <li>Take necessary measures to minimize the environmental nuisance arising from the construction site.</li> </ol>				
C0004	A dust complaint was received by EPD on 16 Dec 2022.  Contractor received Notification of Environmental Complaints from EPD (ref.: K19/RE/00029136-22) by E-Mail on 22 Dec 2021.	Complaint of mud/ silt being brought out by vehicles from the project site casing mud/silt accumulation on Shing Fung Road.	Investigation Regular site inspection was conducted by ET on 29 Dec 2022.  1. As per the Contractor, mud / slit generated from nearby construction sites might be brought to Shing Fung Road roundabout.  2. No adverse observation against the dust impact was recorded during site inspection.  Action taken  1. Watering manually frequently.  2. Haul Road surfaces were wetted by water truck.  3. Wheel washing for the trucks and vehicles before leaving the project site.  Recommendations To minimize the impact for air quality, mitigation measures should be enhanced specially in dry seasons are recommended:  1. Increase the frequency and duration for automatic water spraying system.  2. Main haul road and the area that water sprinklers system was not covered in the construction site should be wetted by water trucks or manually in regular basis.	- Closed-out on 13 Jan 2023 No further complaint was received.			

Complaint	Complaint Log for ED/2018/01					
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status		
			<ol> <li>Regular wash and clean the share haul road and roundabout in Shing Fung Road.</li> <li>Wheel washing for the trucks and vehicles before leaving the project site. The muddy water after the wheel washing should be directed to sedimentation tank and wastewater treatment facility before discharging to gully.</li> <li>Ensure stockpiling sites should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting at all time except during working process.</li> <li>Dusty materials transported on truck shall be covered.</li> </ol>			
C0005	A noise complaint was received by EPD on 21 Dec 2022.  Contractor received Notification of Environmental Complaints from EPD (EPD ref.: K19/RE/00029422-22) on 22 Dec 2022.  IEC received the notification on 22 Dec 2022 from EPD and forwarded the notification to CEDD, Contractor, ER and ET	Complaint of construction noise arising from the project site near Shing Kai Toad and Muk Tai Street continued to 01:30 am on 21 Dec 2022.	Investigation Regular site inspection was conducted by ET and the Contractor on 29 Dec 2022  1. As per the Contractor, the complaint was still under investigation and could not conclude the complaint related to the project site or not.  2. Status of CNPs in the works area near Shing Kai Road and Muk Tai Street were checked and all of them were valid.  Construction Valid Form Valid Till GW-RE1297-22 10 Dec 2022 08 Jun 2023 GW-RE1299-22 17 Dec 2022 15 Jun 2023  Action taken  1. Trainings for CNP were provided to the labour on 22 Dec 2022.  2. No construction activities were allowed in the	- During the SSMEC meeting on 10 Jan 2023, the Contractor explained that the noise complaint case has already passed to head office and waiting for the Legal opinion. No further information		

Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status
	on same day.		restricted hours for those areas without valid CNP.  Recommendations To minimize the impact for construction noise, mitigation measures are recommended:  1. Training to new staff and regular enhance training for staff for CNP and other environmental issues.  2. Regularly check the status of ALL CNP and other environmental permits.	could be provided for Incident Report on Complaint Investigation at that moment.  - Under investigation in the reporting month.
C0006	A dust complaint was received by EPD on 6 Dec 2022.  Contractor (POC) received Notification of Environmental Complaints from EPD (ref.: K19/RE/00027862-22) by E-Mail on 7 Dec 2022.  IEC received the notification on 19 Jan 2023 and forwarded the notification to CEDD, ER and ET on same day.	Complaint of construction dust arising from construction sites along Shing Fung Road.	Investigation Site inspections were conducted by ET on 26 Jan 2023 and joint site inspection was conducted by Contractor (POC), ER, ET and IEC on 8 Feb 2023.  1. The concerned area (roundabout) is the common road for public vehicles. In addition, construction vehicles from several nearby construction sites also use the concerned road, especially a lots of dump trucks.  2. Construction vehicles from Contractor (POC) project site are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.  3. Worker of sub-contractor from Contractor (POC) wetted the part of the concerned road surface during the site inspection on 8 Feb 2023 to suppress dust emission.  4. No construction works was observed on 26 Jan 2023 and no adverse observation against the dust impact were found during the site	- Closed-out on 16 Mar 2023.

-	Log for ED/2016/01	Complaint Log for ED/2018/01  Complaint   Description of Constitution   Description   Description						
Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	/ Status				
			inspection on both dates.					
			<ol> <li>Action taken</li> <li>Haul Road surfaces were wetted manually and washed the dusty water barrier regularly.</li> <li>Wheel washing for the trucks and vehicles before leaving the project site directly through Shing Fung Road exit.</li> <li>Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.</li> </ol>					

Complaint	mplaint Log for ED/2018/01						
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status			
C0007	A dust complaint was received by EPD on 19 Jan 2023.  Contractor (POC) received Notification of Environmental Complaints from EPD (ref.: K19/RE/00001988-23) by E-Mail on 2 Feb 2023.  IEC received the notification on 2 Feb 2023 and forwarded the notification to CEDD, ER and ET on the same day.	Complaint of dusty environment at the new road connecting Shing Fung Road and Shing Kai Road caused by vehicles from construction sites nearby.	<ul> <li>Investigation Joint site inspection was conducted by Contractor (POC), ER, ET and IEC on 8 Feb 2023.</li> <li>1. The concerned area (new road connecting Shing Fung Road &amp; Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022.</li> <li>2. Construction vehicles from POC are not allowed leaving the site to Shing Fung Road directly with barriers blocked since 21 Jan 2023.</li> <li>3. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.</li> <li>4. Worker of sub-contractor from Contractor (POC) wetted the part of the concerned road surface during the site inspection on 8 Feb 2023 to suppress dust emission.</li> <li>5. No adverse observation against the dust impact were found during the site inspection along the new road.</li> <li>Action taken</li> <li>1. Haul Road surfaces were wetted manually and washed the dusty water barrier regularly.</li> <li>2. Wheel washing for the trucks and vehicles before leaving the project site.</li> <li>3. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.</li> </ul>	- Closed-out on 16 Mar 2023.			

Complaint	Complaint Log for ED/2018/01						
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status			
			Recommendations There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air quality:  1. Main haul road and the area that water sprinklers system was not covered in the construction site should be wetted by water trucks or manually in regular basis.  2. Regular wash the share haul road in Shing Fung Road.  3. Wheel washing for the trucks and vehicles before leaving the project site. The muddy water after the wheel washing should be directed to sedimentation tank and wastewater treatment facility before discharging to gully.  4. Dusty materials transported on truck shall be covered.				
C0008	A dust complaint was received by EPD on 13 Feb 2023.  Contractor (POC) received the Notification of Environmental Complaints from EPD (ref.: K19/RE/00003909-23) by E-Mail on 17 Feb 2023 and forwarded	•	Investigation Joint site inspection was conducted by Contractor (POC), ER, ET and IEC on 23 Feb 2023 and regular site inspection was conducted by Contractor (POC), ER and ET on 2 Mar 2023.  1. The concerned area (new road connecting Shing Fung Road & Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust nuisance.  2. Construction vehicles from POC are not	- Closed-out on 29 Mar 2023.			

Complaint Log for ED/2018/01						
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status		
	the E-mail to ER, ET and IEC on same day.		allowed leaving the site to Shing Fung Road directly with barriers blocked since 21 Jan 2023.  3. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.  4. As per Contractor (POC), EPD conducted site visit on 16 Feb 2023.  5. No adverse observation against the dust / muddy water impact were found during the site inspection on both dates.			
			<ol> <li>Action taken</li> <li>Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.</li> <li>Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.</li> <li>Haul Road surfaces were wetted manually and washed the dusty water barrier regularly.</li> <li>Wheel washing for the trucks and vehicles before leaving the project site.</li> <li>As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted once a week as follow:</li> </ol>			

Complaint Log for ED/2018/01					
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status	
			spraying truck		
			9 Mar 2023 Sweeper truck with water spraying truck		
			14 Mar 2023 Sweeper truck with water spraying truck		
			22 Mar 2023 Sweeper truck with water spraying truck		
			6. During the two site inspections, mitigation measures implemented by the Contractor (POC) were found properly based on existing site condition and resources.		
Recom There v nuisand compla recom measur 1. Ma spr cor tru 2. Re Fu 3. Du		Recommendations There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air quality:  1. Main haul road and the area that water sprinklers system was not covered in the construction site should be wetted by water trucks or manually in regular basis.  2. Regular wash the share haul road in Shing Fung Road.  3. Dusty materials transported on truck shall be covered.			
C0009	A dust complaint was received by EPD on 15 Feb 2023.  Contractor (POC) received the		Investigation Joint site inspection was conducted by Contractor (POC), ER, ET and IEC on 23 Feb 2023 and regular site inspection was conducted by Contractor (POC), ER and ET on 2 Mar 2023.  1. The concerned area (new road connecting)	- Closed-out on 29 Mar 2023.	

Date of Complaint  Notification of Environmental	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date
		investigation / restons taken / resonantendations	/ Status
Complaints from EPD (ref.: K19/RE/00004280-23) by E-Mail on 22 Feb 2023 and forwarded the E-mail to ER, ET and IEC on same day.		Shing Fung Road & Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust nuisance.  2. Construction vehicles from POC are not allowed leaving the site to Shing Fung Road directly with barriers blocked since 21 Jan 2023.  3. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.  4. As per Contractor (POC), EPD conducted site visit on 16 Feb 2023.  5. No adverse observation against the dust impact were found during the site inspection on both dates.	
		<ol> <li>Action taken</li> <li>Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.</li> <li>Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.</li> <li>Haul Road surfaces were wetted manually and washed the dusty water barrier regularly.</li> <li>Wheel washing for the trucks and vehicles</li> </ol>	
	X19/RE/00004280-23) by E-Mail on 22 Feb 2023 and forwarded the E-mail to ER, ET	X19/RE/00004280-23) by E-Mail on 22 Feb 2023 and forwarded the E-mail to ER, ET	C19/RE/00004280-23) by E-Mail on 22 Feb 2023 and forwarded the E-mail to ER, ET and IEC on same day.  2. Construction vehicles from POC are not allowed leaving the site to Shing Fung Road directly with barriers blocked since 21 Jan 2023.  3. Contractor (POC) has restricted the construction activities since 4 Feb 2023.  4. As per Contractor (POC), EPD conducted site visit on 16 Feb 2023.  5. No adverse observation against the dust impact were found during the site inspection on both dates.  Action taken  1. Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.  2. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.  3. Haul Road surfaces were wetted manually and

Complaint Complaint	Log for ED/2018/01				Close-Out Date
Ref. No.	Date of Complaint	Description of Complaint	Investigation /	Actions taken / Recommendations	/ Status
			road washi Shing Fung Shing Fung	ruction from CEDD and AECOM, ng along the new road (connecting g Road and Shing Kai Road) and ng Road by water truck was once a week as follow:	
			Date	Road Washing by	
			8 Mar 2023	Sweeper truck with water spraying truck	
			9 Mar 2023	Sweeper truck with water spraying truck	
			14 Mar 2023	Sweeper truck with water spraying truck	
			22 Mar 2023	Sweeper truck with water spraying truck	
			measures (POC) wer	e two site inspections, mitigation implemented by the Contractor e found properly based on existing on and resources.	
			nuisance was complaint area recommended measures to min 1. Main haul sprinklers construction	irect evidence showing that the dust caused by the contractor at the a, however Contractor (POC) is to implement the following nimize the impact for air quality: road and the area that water system was not covered in the n site should be wetted by water	
			2. Regular was Fung Road.	anually in regular basis. ash the share haul road in Shing . crials transported on truck shall be	

Complaint	Log for ED/2018/01			
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status
C0010	A dust and muddy water complaint was received by Hotline 1823 on 9 Mar 2023.  ER received the transfer from the Hotline 1823 on 9 Mar 2023 and forwarded the E-mail to Contractor (POC), ET and IEC on same day.	Worker wetted the road surface and might cause mud	<ul> <li>Investigation</li> <li>Joint site inspection was conducted by Contractor (POC), ER, and ET on 16 Mar 2023 and 23 Mar 2023.</li> <li>1. The concerned area (new road connecting Shing Fung Road &amp; Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust nuisance.</li> <li>2. Construction vehicles from POC are not allowed leaving the site to Shing Fung Road directly with barriers blocked since 21 Jan 2023.</li> <li>3. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.</li> <li>4. The sandbags were provided around the manholes.</li> <li>5. No adverse observation against the dust / muddy water impact were found during the site inspection on both dates.</li> </ul>	- Closed-out on 6 Apr 2023.
			Action taken  1. Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.  2. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for	

_	Log for ED/2018/01				
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation /	Actions taken / Recommendations	Close-Out Date / Status
			any constru		
			3. Haul Road	surfaces were wetted manually and	
			washed the	dusty water barrier regularly.	
				shing for the trucks and vehicles	
				ing the project site.	
				truction from CEDD and AECOM,	
				ng along the new road (connecting	
				g Road and Shing Kai Road) and	
				ng Road by water truck was	
			conducted once a week as follow:		
			Date Road Washing by  8 Mar 2023 Sweeper truck with water		
			9 Mar 2023	spraying truck Sweeper truck with water	
			9 Wai 2023	spraying truck	
			14 Mar 2023	Sweeper truck with water	
				spraying truck	
			22 Mar 2023	Sweeper truck with water spraying truck	
			6 The sandh	pags were provided around the	
			manholes.	bags were provided around the	
				e two site inspections, mitigation	
				implemented by the Contractor	
				e found properly based on existing	
			site condition	on and resources.	
			Recommendation	ons	
				irect evidence showing that the dust	
				caused by the contractor at the	
				a, however Contractor (POC) is	
				to implement the following	
				nimize the impact for air and water	
			quality:	•	

Complaint Log for ED/2018/01						
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status		
			<ol> <li>Dusty materials transported on truck shall be covered.</li> <li>Enhance the sandbags with several layers of filters and replace the filter frequently.</li> </ol>			
C0011	A muddy water complaint was received by EPD on 9 Mar 2023.  Contractor (POC) received the Notification of Environmental Complaints from EPD (ref.: K19/RE/00004280-23) by E-Mail on 22 Feb 2023 and forwarded the E-mail to ER, ET and IEC on same day.	passing by and mud / silt being washed into roadside	Investigation Joint site inspection was conducted by Contractor (POC), ER and ET on 23 Mar 2023.  1. The concerned area (new road connecting Shing Fung Road & Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust / mud / silt nuisance.  2. The sandbags were provided around the manholes.  3. No adverse observation against the muddy water impact were found during the site inspection on both dates.  Action taken  1. As per Contractor (POC), no manually road surfaces watering on Shing Fung Road after receiving complaint (16 Mar 2023).  2. As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted once a week as follow:  Date Road Washing by  8 Mar 2023 Sweeper truck with water spraying truck			

Complaint Log for ED/2018/01					
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations		Close-Out Date / Status
			9 Mar 2023	Sweeper truck with water spraying truck	
			14 Mar 2023	Sweeper truck with water spraying truck	
			22 Mar 2023	Sweeper truck with water spraying truck	
			3. The sandbags were provided around the manholes.		
			Recommendation There was no		
			muddy water nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air and water quality:  1. Enhance the sandbags with several layers of		
			filters and r		